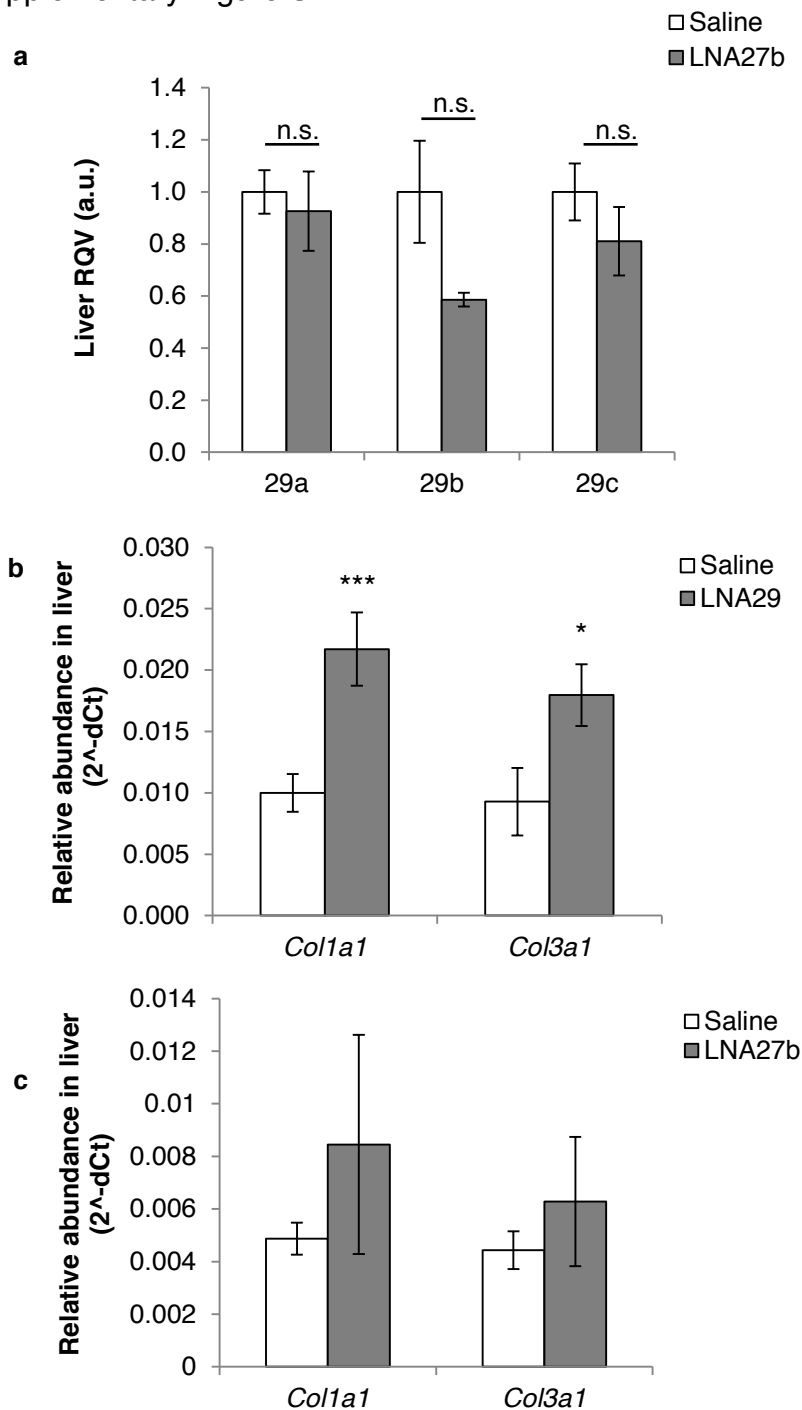
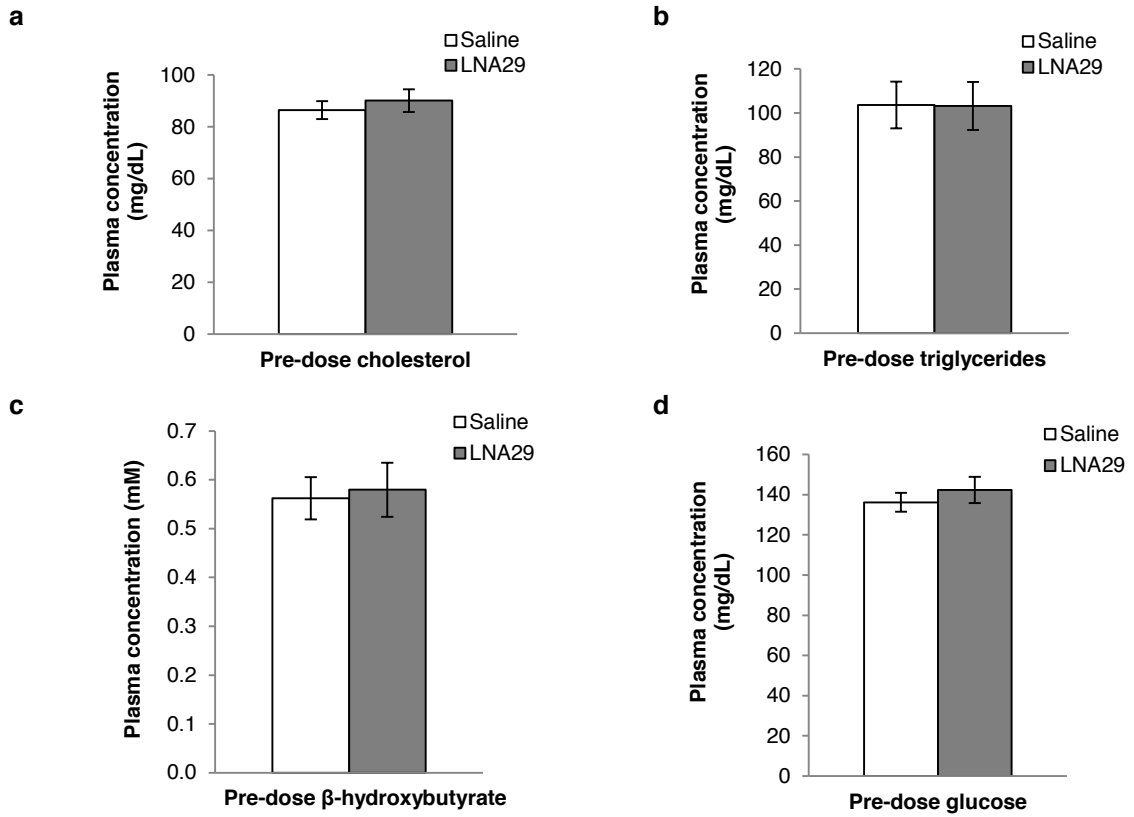


Supplementary Figure S1



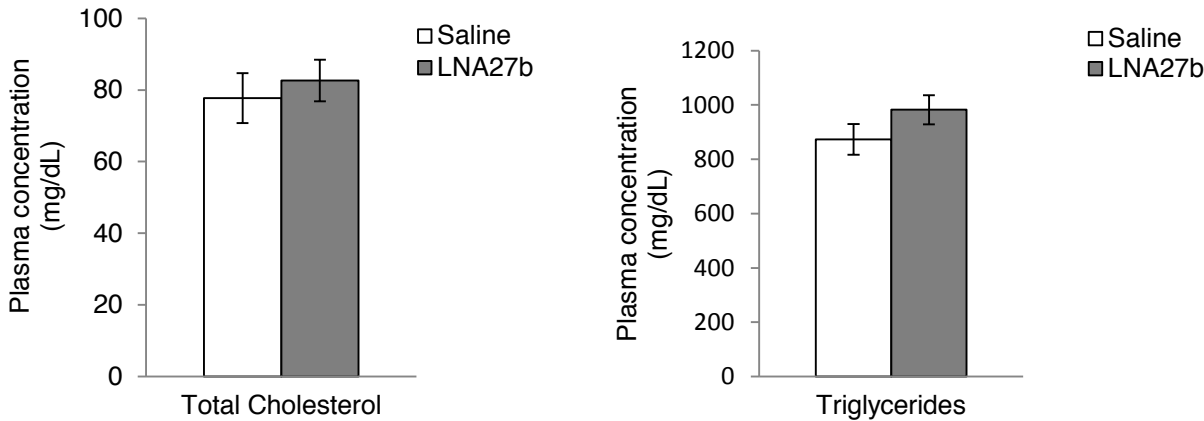
Supplementary Figure S1. (a) RT-qPCR analysis of LNA27b-treated (20 mg/kg) C57BL/6J female mice (n= 6) with saline-treated age-, gender-, and strain-matched controls (n=5) shows that endogenous expression of hepatic miR-29 is not significantly altered. (b) mRNA levels of *Col1a1* and *Col3a1*, validated miR-29 target genes, are significantly elevated in the liver of LNA29-treated mice. (c) mRNA levels of *Col1a1* and *Col3a1* are not significantly altered in the liver of LNA27b-treated mice. *U6* and *Rps9* were used as expression normalizers for miRNA and gene analysis, respectively. ***, p<0.005; *, p<0.05; p-values were calculated by two-tailed unpaired Student's t-test. Error bars represent standard error of the mean.

Supplementary Figure S2



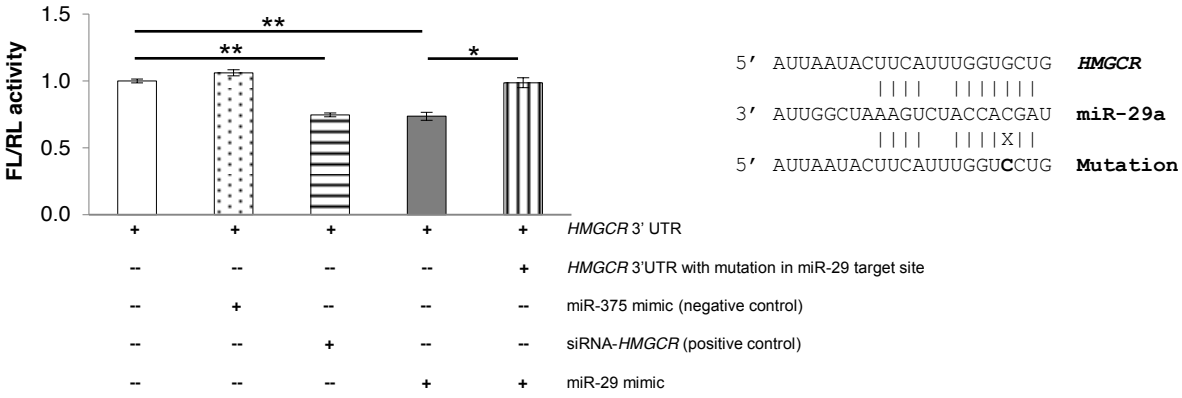
Supplementary Figure S2. Plasma was isolated from whole blood collected via submandibular bleed pre-treatment with either LNA29 (n=14) or saline (n=12) and was analyzed for levels of total cholesterol (a), triglycerides (b), glucose (c), and β -hydroxybutyrate (d).

Supplementary Figure S3



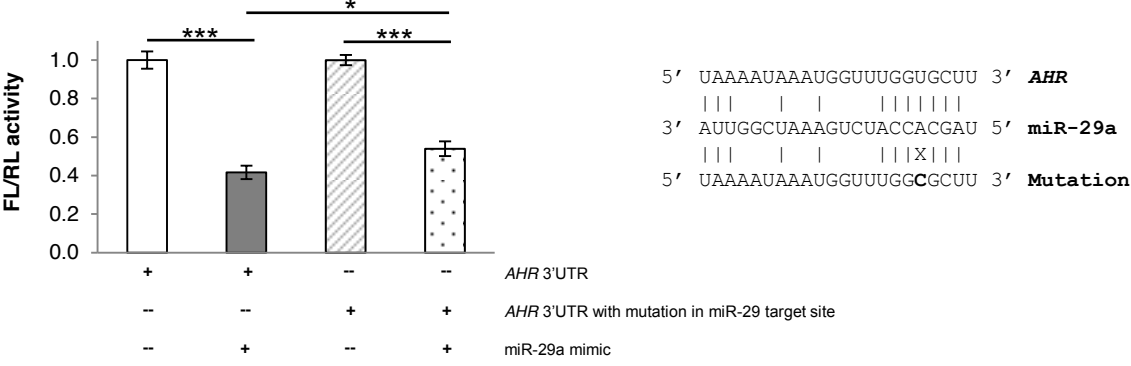
Supplementary Figure S3. Plasma was isolated from whole blood collected via submandibular bleed one week post-treatment with either LNA27b (n=5) or saline (n=6). Total cholesterol and triglycerides were not significantly altered in LNA-control treated mice.

Supplementary Figure S4



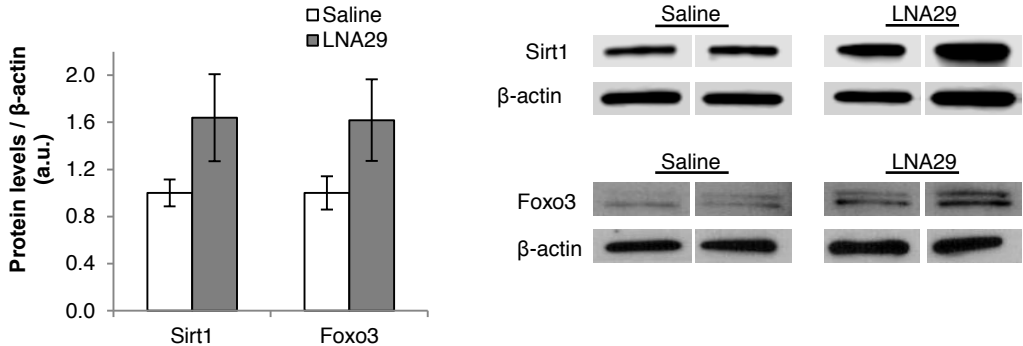
Supplementary Figure S4. Effects of miR-29a mimic (10 nM) in HEK293T cells on the activity of *Firefly* (FL) luciferase containing either wild-type or mutated *HMGCR* 3' UTR normalized to *Renilla* luciferase (RL) are shown. Each condition had six replicates. The mutation was targeted to the predicted miR-29 target site. *, p<0.05; **, p<0.01; p-values were calculated by two-tailed unpaired Student's t-test. Error bars represent standard error of the mean.

Supplementary Figure S5



Supplementary Figure S5. Effects of miR-29a mimic (10 nM) in HEK293T cells on the activity of *Firefly* (FL) luciferase containing either wild-type or mutated *Ahr3'* UTR normalized to *Renilla* luciferase (RL) are shown. Each condition had six replicates. The mutation was targeted to the predicted miR-29 target site.

Supplementary Figure S6



Supplementary Figure S6. Densitometry analyses shown for Sirt1 and Foxo3 in livers from LNA29-treated mice (n=5) compared to saline-treated controls (n=4). β -actin was used as a loading control. Immunoblot results are shown for two representative mice from each treatment group.

Supplementary Table S1. RNA-seq data from livers of LNA29-treated mice compared to saline-treated controls. mRNA fold-change was computed before and after discarding data points ± 1.5 times the standard deviation of the mean within each treatment category and p-values were calculated by one-tailed unpaired Student's t-test. (GEO accession number GSE63493).

Supplementary Table S2. Results of gene ontology (GO) term enrichment analysis using NIH David for down-regulated genes.

Supplementary Table S3. Results of GO term enrichment analysis using Ingenuity Pathway Analysis (IPA) for down-regulated genes.

Supplementary Table S4. Results of GO term enrichment analysis using NIH David for up-regulated genes.

Supplementary Table S5. Results of GO term enrichment analysis using IPA for up-regulated genes.

Supplemental Table S1.

Gene	<i>All data points included</i>		<i>Data points beyond 1.5*stdev discarded</i>	
	FC (LNA)	P-value	FC (LNA)	P-value
Ugt1a7c 394432	53.67886667	0.170446566	1	#DIV/0!
Mfrp 259172	30.9618	0.027620748	30.9618	0.027620748
Plin1 103968	25.99056667	0.170446566	1	#DIV/0!
LOC100302626 100302626	15.58051667	0.000647286	18.49662	1.44412E-06
Nrg1 211323	14.99348333	0.071828993	6.67142	0.056347996
Tff3 21786	14.55460109	0.097047679	9.159665022	0.086529212
Foxs1 14239	14.22866035	0.091083935	12.78472	0.003006972
Dsel 319901	13.96525	0.020563149	9.21114	0.013839142
Raet1a 19368	13.91424387	0.072428782	17.48572668	0.103075306
Zmynd12 332934	13.36296667	0.083414785	6.27946	0.148332518
Tagln3 56370	12.93766667	0.042712222	7.97804	0.066062971
Kirrel3 67703	12.77526667	0.10627979	4.37142	0.148332518
Igf2bp3 140488	12.21705	0.045223458	7.1133	0.055477299
Anln 68743	12.10743333	0.027701966	12.10743333	0.027701966
Serpina3b 271047	11.9414	0.09872422	4.57358	0.148332518
Slc7a14 241919	11.77293333	0.101207638	4.37142	0.148332518
Doc2b 13447	11.74098333	0.008946182	11.74098333	0.008946182
Tnf 21926	11.35551667	0.028231707	11.35551667	0.028231707
Styx1 76571	11.18705	0.028845884	11.18705	0.028845884
Ncaph 215387	10.8206	0.006501621	10.8206	0.006501621
4921523A10Rik 110332	10.68586667	0.0267355	10.68586667	0.0267355
Zfp786 330301	10.66063333	0.091443403	4.57358	0.148332518
Megf6 230971	10.27116085	0.068154138	12.15304	0.030717181
Ybx2 53422	10.2673	0.170446566	1	#DIV/0!
S100a4 20198	10.2673	0.170446566	1	#DIV/0!
Klrc1 16641	10.2673	0.170446566	1	#DIV/0!
Dpysl5 65254	10.2673	0.170446566	1	#DIV/0!
Sftpd 20390	10.10061667	0.08801451	4.57358	0.148332518
Flrt2 399558	10.09441667	0.030807342	10.09441667	0.030807342
Gm9079 668272	10.09441667	0.030807342	10.09441667	0.030807342
Galnt9 231605	9.992783333	0.030268937	9.992783333	0.030268937
Col8a2 329941	9.7637	0.085905471	4.57358	0.148332518
Trim17 56631	9.638366667	0.170446566	1	#DIV/0!
Adra2a 11551	9.396590242	0.023044665	9.535655785	0.006330263
Grik4 110637	9.297916667	0.072956608	9.297916667	0.072956608
Gm10818 675921	9.0393	0.106322683	3.3	0.148332518
Mmp3 17392	9.0393	0.106322683	3.3	0.148332518
Tex19.1 73679	8.963416667	0.170446566	1	#DIV/0!
Sh2d1a 20400	8.898366667	0.072486194	8.898366667	0.072486194
Wdr65 68625	8.879098973	0.089653732	11.05418	0.127242563
4930583K01Rik 67745	8.872633333	0.028103571	8.872633333	0.028103571
Ccr2 12772	8.872633333	0.028103571	8.872633333	0.028103571
E030003E18Rik 320092	8.872633333	0.028103571	8.872633333	0.028103571
Fxyd7 57780	8.792424343	0.065568512	11.92074	0.087106547
Eme1 268465	8.742005732	0.014355636	28.56858333	0.014727512
Omp 18378	8.704166667	0.027773343	8.704166667	0.027773343
Hoxb8 15416	8.704166667	0.027773343	8.704166667	0.027773343
Fzd3 14365	8.377533333	0.077428357	4.57358	0.148332518
Rnu1b2 19845	8.377533333	0.077428357	4.57358	0.148332518

C4bp-ps1 12270	8.377533333	0.077428357	4.57358	0.148332518
Ptprn 19275	8.377533333	0.077428357	4.57358	0.148332518
Nsun7 70918	8.377533333	0.077428357	4.57358	0.148332518
Chst8 68947	8.377533333	0.077428357	4.57358	0.148332518
Ugt2b38 100559	8.371583333	0.087989736	3.8959	0.148332518
AB099516 554292	8.02055	0.074868905	4.64906	0.148332518
Snhg10 69434	7.977983333	0.075346019	4.57358	0.148332518
Sebox 18292	7.977983333	0.075346019	4.57358	0.148332518
Serp2 72661	7.87635	0.074873498	4.57358	0.148332518
Nanos1 332397	7.87635	0.074873498	4.57358	0.148332518
Bai2 230775	7.87635	0.074873498	4.57358	0.148332518
Galnt3 14425	7.87635	0.074873498	4.57358	0.148332518
Glt8d2 74782	7.87635	0.074873498	4.57358	0.148332518
Fsd2 244091	7.707883333	0.075998742	4.37142	0.148332518
Actl6b 83766	7.707883333	0.075998742	4.37142	0.148332518
Gpr179 217143	7.707883333	0.075998742	4.37142	0.148332518
Muc19 239611	7.707883333	0.075998742	4.37142	0.148332518
Tm4sf5 75604	7.707883333	0.075998742	4.37142	0.148332518
Gm17801 100272221	7.707883333	0.075998742	4.37142	0.148332518
Acot10 64833	7.68265	0.170446566	1	#DIV/0!
B3gat2 280645	7.68265	0.170446566	1	#DIV/0!
Cib3 234421	7.392247626	0.12124896	2.344248986	0.127168618
Raet1c 19370	7.391479404	0.094757776	6.37142	0.173296754
Cyp4a12a 277753	7.34014496	0.013267484	12.27266475	0.015996756
Ngp 18054	7.219879478	0.047297884	10.48472	0.021914722
1700018A04Rik 71307	7.122633333	0.170446566	1	#DIV/0!
4930444G20Rik 114671	7.122633333	0.170446566	1	#DIV/0!
Eomes 13813	7.122633333	0.170446566	1	#DIV/0!
Ush1c 72088	7.122633333	0.170446566	1	#DIV/0!
Gpr20 239530	7.122633333	0.170446566	1	#DIV/0!
Aplnr 23796	7.122633333	0.170446566	1	#DIV/0!
Spert 67926	7.122633333	0.170446566	1	#DIV/0!
Stag3 50878	7.122633333	0.170446566	1	#DIV/0!
Rimklb 108653	7.122633333	0.170446566	1	#DIV/0!
Il22ra2 237310	7.122633333	0.170446566	1	#DIV/0!
Nbea 26422	7.116433333	0.084914106	3.53972	0.148332518
A730069N07Rik 244425	6.955966667	0.072463803	6.955966667	0.072463803
Gpr171 229323	6.955966667	0.072463803	6.955966667	0.072463803
Mrgprf 211577	6.955966667	0.072463803	6.955966667	0.072463803
Sdk1 330222	6.955966667	0.072463803	6.955966667	0.072463803
Kif20a 19348	6.842012658	0.062528462	10.3	0.072944813
Gm2506 100039939	6.839616667	0.170446566	1	#DIV/0!
Mogat2 233549	6.815033333	0.087605735	3.3	0.148332518
Aldh1a2 19378	6.815033333	0.087605735	3.3	0.148332518
A930007I19Rik 77779	6.815033333	0.087605735	3.3	0.148332518
Olfr1396 258334	6.815033333	0.087605735	3.3	0.148332518
1700029J07Rik 69479	6.815033333	0.087605735	3.3	0.148332518
Trim10 19824	6.7875	0.072578363	6.7875	0.072578363
Capn9 73647	6.7875	0.072578363	6.7875	0.072578363
Tspan32 27027	6.7875	0.072578363	6.7875	0.072578363
Efs 13644	6.7875	0.072578363	6.7875	0.072578363
Bex2 12069	6.7875	0.072578363	6.7875	0.072578363
Bdkrb1 12061	6.7875	0.072578363	6.7875	0.072578363

Cox8b 12869	6.7875	0.072578363	6.7875	0.072578363
Faim2 72393	6.7875	0.072578363	6.7875	0.072578363
Cenpp 66336	6.7875	0.072578363	6.7875	0.072578363
Cyp26c1 546726	6.7875	0.072578363	6.7875	0.072578363
Akr1c18 105349	6.7875	0.072578363	6.7875	0.072578363
Ccdc40 207607	6.7875	0.072578363	6.7875	0.072578363
Sdcbp2 228765	6.785716667	0.170446566	1	#DIV/0!
Glipr1 73690	6.69678659	0.028417486	14.42104	0.023999739
Corin 53419	6.597876	0.000495812	27.49115	9.70684E-05
Pcdhga5 93713	6.52515	0.170446566	1	#DIV/0!
Klk1 16612	6.512125025	0.100764034	8.34716	0.173296754
Nfe2l3 18025	6.293632083	0.155787665	3.53972	0.173296754
H19 14955	6.235444534	0.148156953	1.505047411	0.16546411
Hist1h4f 319157	6.17925	0.170446566	1	#DIV/0!
Lamp3 239739	6.163947924	0.003140126	7.346325602	7.66539E-05
Greb1l 381157	6.12896	0.058687724	15.3224	0.055497328
Slc22a21 56517	6.106583333	0.074926697	3.64932	0.148332518
D630023F18Rik 98303	6.094416667	0.076298115	3.53972	0.148332518
Tmem130 243339	6.094416667	0.076298115	3.53972	0.148332518
Slc28a3 114304	6.094416667	0.076298115	3.53972	0.148332518
Mpp4 227157	6.094416667	0.076298115	3.53972	0.148332518
Fam101a 73121	6.094416667	0.076298115	3.53972	0.148332518
Fam163a 329274	6.094416667	0.076298115	3.53972	0.148332518
Liph 239759	6.094416667	0.076298115	3.53972	0.148332518
Xlr 22441	6.094416667	0.076298115	3.53972	0.148332518
D2Erted750e 51944	6.087967684	0.058974011	15.3224	0.055497328
Zfp947 210853	6.009913333	0.058714121	15.02478333	0.054984817
Slc24a1 214111	5.92595	0.075125027	3.53972	0.148332518
Lif 16878	5.92595	0.075125027	3.53972	0.148332518
Tead4 21679	5.92595	0.075125027	3.53972	0.148332518
Fndc7 320181	5.92595	0.075125027	3.53972	0.148332518
Dlx4 13394	5.89465	0.078731019	3.3	0.148332518
Spink3 20730	5.89465	0.078731019	3.3	0.148332518
A830093I24Rik 207921	5.89465	0.078731019	3.3	0.148332518
C2cd4c 237397	5.89465	0.078731019	3.3	0.148332518
Mkrn3 22652	5.89465	0.078731019	3.3	0.148332518
Serpina3a 74069	5.89465	0.078731019	3.3	0.148332518
Mtnr1a 17773	5.89465	0.078731019	3.3	0.148332518
Hsd17b14 66065	5.89465	0.078731019	3.3	0.148332518
Gm6792 627821	5.89465	0.078731019	3.3	0.148332518
Il17d 239114	5.89465	0.078731019	3.3	0.148332518
Tgm4 331046	5.792683333	0.170446566	1	#DIV/0!
Pf4 56744	5.749159429	0.012325171	11.30235658	0.001592239
Tmem169 271711	5.726183333	0.077237977	3.3	0.148332518
1700007K13Rik 69327	5.726183333	0.077237977	3.3	0.148332518
Lctl 235435	5.726183333	0.077237977	3.3	0.148332518
Foxd3 15221	5.726183333	0.077237977	3.3	0.148332518
Map3k12 26404	5.566265559	0.200525554	-1.071949243	0.45778063
Gm1673 381633	5.469366267	0.01476794	13.76548333	0.01085985
Prrx1 18933	5.39955	0.170446566	1	#DIV/0!
Dpp6 13483	5.39955	0.170446566	1	#DIV/0!
Accn3 171209	5.39955	0.170446566	1	#DIV/0!
Clec4d 17474	5.39955	0.170446566	1	#DIV/0!

2810442I21Rik 72735	5.39955	0.170446566	1	#DIV/0!
Cd209d 170779	5.39955	0.170446566	1	#DIV/0!
Mmp12 17381	5.39955	0.170446566	1	#DIV/0!
Treh 58866	5.381069757	0.003234598	7.552823245	0.003997473
2310014L17Rik 381845	5.36478	0.201621969	1	#DIV/0!
Gm9897 208595	5.272103825	0.029153005	16.07991667	0.020760156
Gzma 14938	5.257386269	0.049053165	5.8273	0.045625723
Hey1 15213	5.222452	0.023625904	16.35616	0.013181761
Gm7030 630294	5.2044	0.170446566	1	#DIV/0!
Fez1 235180	5.0331	0.072795349	5.0331	0.072795349
Spire2 234857	5.0331	0.072795349	5.0331	0.072795349
Hsd3b5 15496	5.0331	0.072795349	5.0331	0.072795349
Gm17769 100045653	5.0331	0.072795349	5.0331	0.072795349
Klrd1 16643	5.0331	0.072795349	5.0331	0.072795349
Jph4 319984	5	0.170446566	1	#DIV/0!
Slc27a6 225579	5	0.170446566	1	#DIV/0!
1190002H23Rik 66214	5	0.170446566	1	#DIV/0!
Papalb 56522	5	0.170446566	1	#DIV/0!
Svep1 64817	4.951013333	0.049326105	12.37753333	0.039912242
Acot5 217698	4.939016667	0.170446566	1	#DIV/0!
Rin1 225870	4.923903572	0.006144895	5.858893822	0.000386475
Pigz 239827	4.922209688	0.133864225	4.57358	0.173296754
Loxhd1 240411	4.898366667	0.170446566	1	#DIV/0!
Sh3rf3 237353	4.898366667	0.170446566	1	#DIV/0!
F2rl2 14064	4.898366667	0.170446566	1	#DIV/0!
H2afy3 67552	4.898366667	0.170446566	1	#DIV/0!
Fscn2 238021	4.898366667	0.170446566	1	#DIV/0!
Prps1l1 75456	4.898366667	0.170446566	1	#DIV/0!
Ccl8 20307	4.898366667	0.170446566	1	#DIV/0!
Twist2 13345	4.898366667	0.170446566	1	#DIV/0!
Hormad2 75828	4.898366667	0.170446566	1	#DIV/0!
Snora78 100306952	4.898366667	0.170446566	1	#DIV/0!
Adra1d 11550	4.898366667	0.170446566	1	#DIV/0!
Aldoart2 79459	4.898366667	0.170446566	1	#DIV/0!
Oprd1 18386	4.898366667	0.170446566	1	#DIV/0!
Gngt1 14699	4.898366667	0.170446566	1	#DIV/0!
Myh4 17884	4.898366667	0.170446566	1	#DIV/0!
Tectb 21684	4.898366667	0.170446566	1	#DIV/0!
Epb4.2 13828	4.898366667	0.170446566	1	#DIV/0!
Sgol1 72415	4.898366667	0.170446566	1	#DIV/0!
1700009J07Rik 75188	4.898366667	0.170446566	1	#DIV/0!
Akap14 434756	4.898366667	0.170446566	1	#DIV/0!
Pcdh9 211712	4.898366667	0.170446566	1	#DIV/0!
Cttnbp2 30785	4.898366667	0.170446566	1	#DIV/0!
Klhl1 93688	4.898366667	0.170446566	1	#DIV/0!
Piwi12 57746	4.898366667	0.170446566	1	#DIV/0!
Cyp2t4 384724	4.898366667	0.170446566	1	#DIV/0!
Ephx3 71932	4.88682	0.073222368	7.1133	0.074643367
Gzmm 16904	4.848751515	0.055770721	10.245	0.023173348
Fam181b 58238	4.799191799	0.016375419	14.09134	0.004938992
Krt79 223917	4.630125042	0.022827453	16.10743333	0.011030825
Rfc4 106344	4.627851966	0.020671872	8.291153225	0.017580808
Gm6498 624367	4.545254967	0.062086415	11.21458333	0.048853

Arg2 11847	4.533372963	0.110976772	6.27946	0.173296754
Trps1 83925	4.451892337	0.023099972	4.451892337	0.023099972
Tyms-ps 22172	4.440437993	0.052949489	10.95596667	0.039448802
Palb2 233826	4.43194	0.153278681	3.53972	0.173296754
5730508B09Rik 70617	4.409484397	0.001711719	7.445940054	5.11865E-05
3930402G23Rik 665306	4.349974098	0.004134554	5.032002078	0.000556693
Serpina1e 20704	4.322861762	0.006285895	6.071916227	0.0064432
Erp27 69187	4.320739805	0.131503083	4.57358	0.173296754
Dnajc27 217378	4.315	0.055263978	10.7875	0.040042786
Rgs9bp 243923	4.312694524	0.054309398	10.85433333	0.039010666
Egfl8 81701	4.278790239	0.034525897	2.924157316	0.038263133
Mcoln2 68279	4.274346667	0.055187707	10.68586667	0.03955673
Serinc4 574418	4.261	0.170446566	1	#DIV/0!
Ptpla 30963	4.232574918	0.00039297	4.232574918	0.00039297
Tcea2 21400	4.217514552	0.065876108	2.788711944	0.129359652
Adam12 11489	4.20981702	0.030482292	4.20981702	0.030482292
Trpv4 63873	4.178378587	0.005437271	4.998059572	0.000103973
Card14 170720	4.1369	0.170446566	1	#DIV/0!
Eml5 319670	4.044816117	0.095580829	2.103182796	0.165860767
Gdf9 14566	4.041389572	0.103883388	9.04946	0.074324407
Gm10451 100041694	4.041238873	0.1140852	3.716963336	0.153115295
Apol7c 108956	4.040883333	0.170446566	1	#DIV/0!
Fam46b 100342	4.040246667	0.13217465	4.57358	0.173296754
Hist2h3b 319154	4.022016667	0.074325894	2.6	0.148332518
Sult2a4 434121	4.009433333	0.170446566	1	#DIV/0!
Hbq1b 544763	3.977983333	0.170446566	1	#DIV/0!
BC066135 271887	3.977983333	0.170446566	1	#DIV/0!
Kctd19 279499	3.977983333	0.170446566	1	#DIV/0!
Snora70 104368	3.977983333	0.170446566	1	#DIV/0!
Tnfaip6 21930	3.977983333	0.170446566	1	#DIV/0!
Serpib10-ps 241197	3.977983333	0.170446566	1	#DIV/0!
Kif6 319991	3.977983333	0.170446566	1	#DIV/0!
BC055004 381680	3.977983333	0.170446566	1	#DIV/0!
Sdk2 237979	3.977983333	0.170446566	1	#DIV/0!
Plxb3 140571	3.977983333	0.170446566	1	#DIV/0!
1700008O03Rik 69349	3.977983333	0.170446566	1	#DIV/0!
Qrich2 217341	3.977983333	0.170446566	1	#DIV/0!
Dppa3 73708	3.977983333	0.170446566	1	#DIV/0!
Btnl2 547431	3.977983333	0.170446566	1	#DIV/0!
Gcnt7 654821	3.977983333	0.170446566	1	#DIV/0!
Klra7 16638	3.977983333	0.170446566	1	#DIV/0!
B4galnt2 14422	3.977983333	0.170446566	1	#DIV/0!
Olfr315 258531	3.977983333	0.170446566	1	#DIV/0!
Sectm1b 58210	3.977983333	0.170446566	1	#DIV/0!
Smok2b 236574	3.977983333	0.170446566	1	#DIV/0!
Sim1 20464	3.977983333	0.170446566	1	#DIV/0!
Catsper3 76856	3.977983333	0.170446566	1	#DIV/0!
Gm11567 670533	3.977983333	0.170446566	1	#DIV/0!
Fam71d 70897	3.977983333	0.170446566	1	#DIV/0!
Mctp1 78771	3.977983333	0.170446566	1	#DIV/0!
Ube2t 67196	3.977983333	0.170446566	1	#DIV/0!
Olfr61 18362	3.977983333	0.170446566	1	#DIV/0!
Ccdc85a 216613	3.977983333	0.170446566	1	#DIV/0!

Zfp957 105590	3.977983333	0.170446566	1	#DIV/0!
Lrp8 16975	3.977983333	0.170446566	1	#DIV/0!
Gpr152 269053	3.977983333	0.170446566	1	#DIV/0!
Ydjc 69101	3.977983333	0.170446566	1	#DIV/0!
Zfp133-ps 668917	3.977983333	0.170446566	1	#DIV/0!
Gsdma 57911	3.977983333	0.170446566	1	#DIV/0!
Oifr982 258853	3.977983333	0.170446566	1	#DIV/0!
Gm5089 328479	3.977983333	0.170446566	1	#DIV/0!
Tslp 53603	3.977983333	0.170446566	1	#DIV/0!
4933402N03Rik 233918	3.977983333	0.170446566	1	#DIV/0!
Grik3 14807	3.977983333	0.170446566	1	#DIV/0!
Wnt7a 22421	3.977983333	0.170446566	1	#DIV/0!
LOC100499420 100499420	3.977983333	0.170446566	1	#DIV/0!
Frm5 228564	3.977983333	0.170446566	1	#DIV/0!
Pgr 18667	3.977983333	0.170446566	1	#DIV/0!
Il1rl2 107527	3.977983333	0.170446566	1	#DIV/0!
Cxcl5 20311	3.977983333	0.170446566	1	#DIV/0!
Gad2 14417	3.977983333	0.170446566	1	#DIV/0!
Cr2 12902	3.977983333	0.170446566	1	#DIV/0!
Unc80 329178	3.977983333	0.170446566	1	#DIV/0!
Slc44a5 242259	3.977983333	0.170446566	1	#DIV/0!
Atp8a2 50769	3.977983333	0.170446566	1	#DIV/0!
BC048609 433215	3.977983333	0.170446566	1	#DIV/0!
Ppp1r1a 58200	3.977983333	0.170446566	1	#DIV/0!
Tnip3 414084	3.977983333	0.170446566	1	#DIV/0!
Pcdh10 18526	3.977983333	0.170446566	1	#DIV/0!
Gm4984 245347	3.977983333	0.170446566	1	#DIV/0!
9530059O14Rik 319626	3.977983333	0.170446566	1	#DIV/0!
Dmrtc1b 632708	3.977983333	0.170446566	1	#DIV/0!
BC061212 381724	3.977983333	0.170446566	1	#DIV/0!
1700001O22Rik 73598	3.977983333	0.170446566	1	#DIV/0!
Kcna7 16495	3.977983333	0.170446566	1	#DIV/0!
Gpr37l1 171469	3.977983333	0.170446566	1	#DIV/0!
Sostdc1 66042	3.977983333	0.170446566	1	#DIV/0!
Slc1a3 20512	3.977983333	0.170446566	1	#DIV/0!
Dnajb7 57755	3.977983333	0.170446566	1	#DIV/0!
Usp13 72607	3.977983333	0.170446566	1	#DIV/0!
Ppp1r42 69312	3.977983333	0.170446566	1	#DIV/0!
4930567H17Rik 619303	3.977983333	0.170446566	1	#DIV/0!
Cldn27 546519	3.977983333	0.170446566	1	#DIV/0!
Cmya5 76469	3.977983333	0.170446566	1	#DIV/0!
Gm15645 626055	3.977983333	0.170446566	1	#DIV/0!
Fancb 237211	3.977983333	0.170446566	1	#DIV/0!
9530077C05Rik 68283	3.977983333	0.170446566	1	#DIV/0!
Efhb 211482	3.977983333	0.170446566	1	#DIV/0!
D830046C22Rik 320197	3.977983333	0.170446566	1	#DIV/0!
Tbx10 109575	3.977983333	0.170446566	1	#DIV/0!
Timp4 110595	3.977983333	0.170446566	1	#DIV/0!
Fhl2 14200	3.977983333	0.170446566	1	#DIV/0!
Gpr119 236781	3.977983333	0.170446566	1	#DIV/0!
Vmn1r4 171194	3.977983333	0.170446566	1	#DIV/0!
Ifitd1 74071	3.977983333	0.170446566	1	#DIV/0!
Siah3 380918	3.977983333	0.170446566	1	#DIV/0!

Sfhl1 194219	3.977983333	0.170446566	1	#DIV/0!
Tmem89 69384	3.977983333	0.170446566	1	#DIV/0!
Lrrtm4 243499	3.977983333	0.170446566	1	#DIV/0!
Vmn1r53 113853	3.977983333	0.170446566	1	#DIV/0!
Cox4i2 84682	3.977983333	0.170446566	1	#DIV/0!
Hoxc4 15423	3.977983333	0.170446566	1	#DIV/0!
Dio2 13371	3.977983333	0.170446566	1	#DIV/0!
Dkl1 50722	3.977983333	0.170446566	1	#DIV/0!
Aldh1l2 216188	3.977983333	0.170446566	1	#DIV/0!
Tmem8c 66139	3.977983333	0.170446566	1	#DIV/0!
Stk32a 269019	3.977983333	0.170446566	1	#DIV/0!
1700013N18Rik 73318	3.977983333	0.170446566	1	#DIV/0!
Kif5c 16574	3.977983333	0.170446566	1	#DIV/0!
A630055G03Rik 223970	3.977983333	0.170446566	1	#DIV/0!
Ccl7 20306	3.977983333	0.170446566	1	#DIV/0!
Pcdh20 219257	3.977983333	0.170446566	1	#DIV/0!
Htr1a 15550	3.977983333	0.170446566	1	#DIV/0!
Hist1h4n 319161	3.977983333	0.170446566	1	#DIV/0!
Taar5 215854	3.977983333	0.170446566	1	#DIV/0!
Kcnnh2 16511	3.977983333	0.170446566	1	#DIV/0!
Omg 18377	3.977983333	0.170446566	1	#DIV/0!
4921511H03Rik 70920	3.977983333	0.170446566	1	#DIV/0!
Zic4 22774	3.977983333	0.170446566	1	#DIV/0!
Gm10857 100038358	3.977983333	0.170446566	1	#DIV/0!
Klf8 245671	3.977983333	0.170446566	1	#DIV/0!
Ncr1 17086	3.977983333	0.170446566	1	#DIV/0!
Ccr1 12768	3.977983333	0.170446566	1	#DIV/0!
Sult6b1 73671	3.977983333	0.170446566	1	#DIV/0!
Tbx1 21380	3.977983333	0.170446566	1	#DIV/0!
Adra2c 11553	3.977983333	0.170446566	1	#DIV/0!
Dnahc8 13417	3.977983333	0.170446566	1	#DIV/0!
Pdcd1lg2 58205	3.977983333	0.170446566	1	#DIV/0!
Dner 227325	3.977983333	0.170446566	1	#DIV/0!
Dusp27 240892	3.977983333	0.170446566	1	#DIV/0!
Bean1 65115	3.977983333	0.170446566	1	#DIV/0!
Galnt12 230145	3.977983333	0.170446566	1	#DIV/0!
Ankrd5 319196	3.977983333	0.170446566	1	#DIV/0!
Arid3c 550619	3.977983333	0.170446566	1	#DIV/0!
Ano9 71345	3.977983333	0.170446566	1	#DIV/0!
Rnft2 269695	3.977983333	0.170446566	1	#DIV/0!
Olf855 258517	3.977983333	0.170446566	1	#DIV/0!
Ldlrad1 546840	3.977983333	0.170446566	1	#DIV/0!
Ltf 17002	3.977983333	0.170446566	1	#DIV/0!
Fbxo47 72973	3.977983333	0.170446566	1	#DIV/0!
Adcyap1 11516	3.977983333	0.170446566	1	#DIV/0!
Rhov 228543	3.977983333	0.170446566	1	#DIV/0!
AA388235 433100	3.977983333	0.170446566	1	#DIV/0!
Arrdc5 76920	3.977983333	0.170446566	1	#DIV/0!
Lin7b 22342	3.977983333	0.170446566	1	#DIV/0!
Ttc9 69480	3.977983333	0.170446566	1	#DIV/0!
Scn2a1 110876	3.977983333	0.170446566	1	#DIV/0!
Trim59 66949	3.977983333	0.170446566	1	#DIV/0!
Peg3as 100169889	3.977983333	0.170446566	1	#DIV/0!

Foxc2 14234	3.977983333	0.170446566	1	#DIV/0!
Nlrp9a 233001	3.977983333	0.170446566	1	#DIV/0!
Fsd1 240121	3.977983333	0.170446566	1	#DIV/0!
Reg4 67709	3.977983333	0.170446566	1	#DIV/0!
100043387 100043387	3.977983333	0.170446566	1	#DIV/0!
Nlrp4c 83564	3.977983333	0.170446566	1	#DIV/0!
Arsj 271970	3.977983333	0.170446566	1	#DIV/0!
Tmem202 73893	3.977983333	0.170446566	1	#DIV/0!
Tdh 58865	3.977983333	0.170446566	1	#DIV/0!
Hbq1a 216635	3.95793676	0.05601716	9.765483333	0.036994814
Dusp8 18218	3.953980146	0.104222197	1.994151827	0.194282453
Btg3 12228	3.942333205	0.000479978	5.122307458	0.000469775
H1fx 243529	3.933848241	0.037838335	2.753817983	0.054902851
Trem2 83433	3.906196823	0.010622187	3.906196823	0.010622187
Ly6c1 17067	3.901658182	0.224331247	1	#DIV/0!
Oscp1 230751	3.891007218	0.067938325	9.793016667	0.046113179
AA465934 613254	3.880067545	0.057767295	9.765483333	0.036994814
4930534B04Rik 75216	3.879358983	0.132757893	4.57358	0.173296754
Kif2c 73804	3.814045427	0.159242754	3.3	0.173296754
Olfr1467 258686	3.809516667	0.170446566	1	#DIV/0!
Lce1a1 67127	3.809516667	0.170446566	1	#DIV/0!
Vmn1r-ps79 100042966	3.809516667	0.170446566	1	#DIV/0!
D10Bwg1379e 215821	3.809516667	0.170446566	1	#DIV/0!
Ppp1r3d 228966	3.809516667	0.170446566	1	#DIV/0!
Ccl2 20296	3.809516667	0.170446566	1	#DIV/0!
Abcg4 192663	3.809516667	0.170446566	1	#DIV/0!
4930479M11Rik 74927	3.809516667	0.170446566	1	#DIV/0!
Olfr826 258671	3.809516667	0.170446566	1	#DIV/0!
Hcn4 330953	3.809516667	0.170446566	1	#DIV/0!
Hells 15201	3.809516667	0.170446566	1	#DIV/0!
Zfp287 170740	3.809516667	0.170446566	1	#DIV/0!
Frmppd4 333605	3.809516667	0.170446566	1	#DIV/0!
Jsrp1 71912	3.809516667	0.170446566	1	#DIV/0!
Serpina5 268591	3.809516667	0.170446566	1	#DIV/0!
Syng4 58867	3.809516667	0.170446566	1	#DIV/0!
Ctsj 26898	3.809516667	0.170446566	1	#DIV/0!
4931417G12Rik 70979	3.809516667	0.170446566	1	#DIV/0!
Mypn 68802	3.809516667	0.170446566	1	#DIV/0!
Tnnc2 21925	3.809516667	0.170446566	1	#DIV/0!
Gm8579 667335	3.809516667	0.170446566	1	#DIV/0!
Cacna1f 54652	3.809516667	0.170446566	1	#DIV/0!
Vmn2r7 319217	3.809516667	0.170446566	1	#DIV/0!
Syce1 74075	3.809516667	0.170446566	1	#DIV/0!
Fbxo24 71176	3.809516667	0.170446566	1	#DIV/0!
Slc25a43 194744	3.809516667	0.170446566	1	#DIV/0!
2610017I09Rik 66297	3.809516667	0.170446566	1	#DIV/0!
Cenpf 108000	3.809516667	0.170446566	1	#DIV/0!
Aloxe3 23801	3.809516667	0.170446566	1	#DIV/0!
Pea15b 231332	3.809516667	0.170446566	1	#DIV/0!
Sgpp2 433323	3.809516667	0.170446566	1	#DIV/0!
Vmn2r96 433070	3.809516667	0.170446566	1	#DIV/0!
Lrrc18 67580	3.809516667	0.170446566	1	#DIV/0!
Gm8979 668108	3.809516667	0.170446566	1	#DIV/0!

Synb 239167	3.809516667	0.170446566	1	#DIV/0!
Mapk8ip2 60597	3.809516667	0.170446566	1	#DIV/0!
4932435O22Rik 319819	3.809516667	0.170446566	1	#DIV/0!
Slc34a1 20505	3.809516667	0.170446566	1	#DIV/0!
Slc6a20a 102680	3.809516667	0.170446566	1	#DIV/0!
Ntrk3 18213	3.809516667	0.170446566	1	#DIV/0!
Gpr34 23890	3.809516667	0.170446566	1	#DIV/0!
Cort 12854	3.809516667	0.170446566	1	#DIV/0!
Olf1101 258584	3.809516667	0.170446566	1	#DIV/0!
Dlk1 13386	3.809516667	0.170446566	1	#DIV/0!
Gm7244 638580	3.809516667	0.170446566	1	#DIV/0!
Psca 72373	3.809516667	0.170446566	1	#DIV/0!
Car6 12353	3.809516667	0.170446566	1	#DIV/0!
Hsf5 327992	3.809516667	0.170446566	1	#DIV/0!
Gcm1 14531	3.809516667	0.170446566	1	#DIV/0!
Zfp473 243963	3.809516667	0.170446566	1	#DIV/0!
Ggt1 14598	3.809516667	0.170446566	1	#DIV/0!
Col22a1 69700	3.809516667	0.170446566	1	#DIV/0!
Spink4 20731	3.809516667	0.170446566	1	#DIV/0!
Tmem178 68027	3.809516667	0.170446566	1	#DIV/0!
Scn8a 20273	3.809516667	0.170446566	1	#DIV/0!
Gm13272 545648	3.809516667	0.170446566	1	#DIV/0!
Ccdc114 211535	3.74053955	0.133059501	3.042145947	0.16339816
Tesc 57816	3.739736748	0.081289166	2.163928773	0.137345333
Eln 13717	3.732224404	0.000206267	4.773052933	1.31312E-05
Stk30 26448	3.724305455	0.036369637	12.8023	0.012602066
Ppm1j 71887	3.723786667	0.0892605	8.21776	0.082854467
Nlrp10 244202	3.695626667	0.153034325	3.53972	0.173296754
Tigd3 332359	3.679888608	0.103722969	3.743778571	0.152352456
Usp50 75083	3.677031053	0.063669074	9.0724	0.039654813
1700101E01Rik 329375	3.62896	0.065032455	9.0724	0.039654813
Rad51 19361	3.608751748	0.064586353	8.903933333	0.039321972
9130206I24Rik 100040736	3.602540606	0.181963452	3.53972	0.173296754
Gpr126 215798	3.60237998	0.107316187	1.966139026	0.220917165
Slc10a6 75750	3.578797089	0.031720463	3.578797089	0.031720463
Trim16 94092	3.572586667	0.078605036	5.83972	0.070910138
Folr4 64931	3.56998223	0.075316679	3.56998223	0.075316679
Ccl19 24047	3.562291018	0.221815908	1	#DIV/0!
4930515G01Rik 67642	3.559346667	0.124033453	8.898366667	0.093248005
Ptplad2 66775	3.537752467	0.066745558	8.903933333	0.039321972
Gm10584 100043682	3.527786597	0.068048998	8.704166667	0.040875093
Tril 66873	3.469709374	0.017839765	8.405071429	0.000482755
Fam107a 268709	3.467252671	0.027858882	3.467252671	0.027858882
Hoxb6 15414	3.45838024	0.070329402	8.704166667	0.040875093
Col7a1 12836	3.453945497	0.16456407	5.67804	0.173296754
Zfp61 22719	3.403052924	0.028505725	4.565971429	0.012902258
A630033H20Rik 213438	3.358268	0.050822861	13.99278333	0.013272229
Apba2 11784	3.351013333	0.134555301	4.57358	0.173296754
BC096441 619441	3.349358879	0.057839439	3.349358879	0.057839439
Tubd1 56427	3.330075502	0.024834983	2.397835075	0.01236922
Klrb1c 17059	3.284361056	0.111964723	7.945	0.070678788
Wdr78 242584	3.26166479	0.138938281	4.37142	0.173296754
Tmem181d-ps 100040596	3.258824427	0.074217586	7.1151	0.045293991

Atg9b 213948	3.258726585	0.124863189	5.9435	0.070665653
C030039L03Rik 112415	3.258227066	0.160057873	6.27946	0.173296754
9430083A17Rik 77428	3.245143218	0.160934118	2.093696815	0.231256853
Mup13 100039089	3.233678952	0.188798813	-1.014766578	0.482895366
Slc8a2 110891	3.233465506	0.134933322	4.57358	0.173296754
Bcl2a1b 12045	3.214148479	0.062690338	4.610871595	0.030394878
Myo7b 17922	3.206109091	0.152221766	5.67804	0.173296754
Gm996 381353	3.192273658	0.135622345	4.57358	0.173296754
Pih1d2 72614	3.192273658	0.135622345	4.57358	0.173296754
Ubxn10 212190	3.192273658	0.135622345	4.57358	0.173296754
Fbn1 14118	3.191467001	0.007400191	3.041204771	0.005698293
Plxna3 18846	3.191193333	0.136762611	4.57358	0.173296754
Kcne4 57814	3.191193333	0.136762611	4.57358	0.173296754
Hmcn1 545370	3.187190303	0.08779567	10.95596667	0.039448802
Plod2 26432	3.185324	0.060376656	13.27218333	0.015336703
B430212C06Rik 338360	3.179370151	0.038929486	3.179370151	0.038929486
Rnf165 225743	3.17658871	0.039046076	3.17658871	0.039046076
Fgf12 14167	3.169668957	0.058078679	11.90945	0.015344684
Cx3cr1 13051	3.146303205	0.057393187	12.90393333	0.012958419
Oscar 232790	3.133335403	0.180252483	4.37142	0.173296754
Lrrc48 74665	3.129468247	0.138466691	4.57358	0.173296754
2610203C20Rik 100042464	3.129468247	0.138466691	4.57358	0.173296754
Ldoc1l 223732	3.123806667	0.140198227	4.37142	0.173296754
Ube2ql1 76980	3.12244934	0.00421758	5.925245764	0.000141973
Ogdhl 239017	3.116433333	0.170446566	1	#DIV/0!
Dlgap5 218977	3.116433333	0.170446566	1	#DIV/0!
Tcp10b 21462	3.116433333	0.170446566	1	#DIV/0!
Zfp184 193452	3.116433333	0.170446566	1	#DIV/0!
Atcay 16467	3.116433333	0.170446566	1	#DIV/0!
Clcna 12733	3.116433333	0.170446566	1	#DIV/0!
Nap1l5 58243	3.116433333	0.170446566	1	#DIV/0!
Sun3 194974	3.116433333	0.170446566	1	#DIV/0!
Efcab6 77627	3.116433333	0.170446566	1	#DIV/0!
Efcab7 230500	3.116433333	0.170446566	1	#DIV/0!
Gapt 238875	3.116433333	0.170446566	1	#DIV/0!
Fbxo27 233040	3.116433333	0.170446566	1	#DIV/0!
Gm5477 432986	3.116433333	0.170446566	1	#DIV/0!
Cidea 12683	3.116433333	0.170446566	1	#DIV/0!
Zpbp 53604	3.116433333	0.170446566	1	#DIV/0!
Gm5124 331392	3.116433333	0.170446566	1	#DIV/0!
2310061N02Rik 69661	3.116433333	0.170446566	1	#DIV/0!
Gm14812 100038584	3.116433333	0.170446566	1	#DIV/0!
Megf11 214058	3.116433333	0.170446566	1	#DIV/0!
Tctex1d4 242646	3.116433333	0.170446566	1	#DIV/0!
Sstr3 20607	3.116433333	0.170446566	1	#DIV/0!
Pde6h 78600	3.116433333	0.170446566	1	#DIV/0!
Nr5a1 26423	3.116433333	0.170446566	1	#DIV/0!
Sertad4 214791	3.116433333	0.170446566	1	#DIV/0!
Ush2a 22283	3.116433333	0.170446566	1	#DIV/0!
4930407110Rik 328573	3.116433333	0.170446566	1	#DIV/0!
1700001G17Rik 67503	3.116433333	0.170446566	1	#DIV/0!
Csf3 12985	3.116433333	0.170446566	1	#DIV/0!
Klk1b5 16622	3.116433333	0.170446566	1	#DIV/0!

4933400F21Rik 74403	3.116433333	0.170446566	1	#DIV/0!
Cplx4 225644	3.116433333	0.170446566	1	#DIV/0!
Tg 21819	3.116433333	0.170446566	1	#DIV/0!
Scn3a 20269	3.116433333	0.170446566	1	#DIV/0!
Gm1123 382097	3.116433333	0.170446566	1	#DIV/0!
Adh6a 69117	3.116433333	0.170446566	1	#DIV/0!
Prokr1 58182	3.116433333	0.170446566	1	#DIV/0!
Zfp365 216049	3.116433333	0.170446566	1	#DIV/0!
Ncrna00086 320237	3.116433333	0.170446566	1	#DIV/0!
AU018829 100041253	3.116433333	0.170446566	1	#DIV/0!
0610038B21Rik 70345	3.116433333	0.170446566	1	#DIV/0!
Asb17 66772	3.116433333	0.170446566	1	#DIV/0!
Rgs8 67792	3.116433333	0.170446566	1	#DIV/0!
Prh1 19131	3.116433333	0.170446566	1	#DIV/0!
Ifng 15978	3.116433333	0.170446566	1	#DIV/0!
Chi3l3 12655	3.116433333	0.170446566	1	#DIV/0!
Gm5460 432838	3.116433333	0.170446566	1	#DIV/0!
Cftr 12638	3.116433333	0.170446566	1	#DIV/0!
Gjb5 14622	3.116433333	0.170446566	1	#DIV/0!
Jph3 57340	3.116433333	0.170446566	1	#DIV/0!
Mrgprd 211578	3.116433333	0.170446566	1	#DIV/0!
Tuba3b 22147	3.116433333	0.170446566	1	#DIV/0!
F630043A04Rik 219114	3.116433333	0.170446566	1	#DIV/0!
Upk1b 22268	3.116433333	0.170446566	1	#DIV/0!
Ptger4 19219	3.116433333	0.170446566	1	#DIV/0!
Hsd3b4 15495	3.116433333	0.170446566	1	#DIV/0!
Taf9b 407786	3.116433333	0.170446566	1	#DIV/0!
Egr4 13656	3.116433333	0.170446566	1	#DIV/0!
Pdxk-ps 435518	3.116433333	0.170446566	1	#DIV/0!
9230110C19Rik 234912	3.116433333	0.170446566	1	#DIV/0!
Gpr52 620246	3.116433333	0.170446566	1	#DIV/0!
Slco5a1 240726	3.116433333	0.170446566	1	#DIV/0!
Veph1 72789	3.116433333	0.170446566	1	#DIV/0!
Nptx1 18164	3.116433333	0.170446566	1	#DIV/0!
Cav3 12391	3.116433333	0.170446566	1	#DIV/0!
Olf1383 404337	3.116433333	0.170446566	1	#DIV/0!
Tc2n 74413	3.116433333	0.170446566	1	#DIV/0!
Celf5 319586	3.116433333	0.170446566	1	#DIV/0!
Wfdc6a 209351	3.116433333	0.170446566	1	#DIV/0!
Krtap17-1 77914	3.116433333	0.170446566	1	#DIV/0!
Adamts6 108154	3.116433333	0.170446566	1	#DIV/0!
Ptpn5 19259	3.116433333	0.170446566	1	#DIV/0!
Ska1 66468	3.116433333	0.170446566	1	#DIV/0!
Sh2d1b1 26904	3.116433333	0.170446566	1	#DIV/0!
Eid3 66341	3.116433333	0.170446566	1	#DIV/0!
Pcdha4-g 100384868	3.116433333	0.170446566	1	#DIV/0!
Gria4 14802	3.116433333	0.170446566	1	#DIV/0!
Otos 260301	3.116433333	0.170446566	1	#DIV/0!
Shc4 271849	3.116433333	0.170446566	1	#DIV/0!
Orc1 18392	3.116433333	0.170446566	1	#DIV/0!
A530088E08Rik 664702	3.116433333	0.170446566	1	#DIV/0!
Cd40 21939	3.114281061	0.061686419	3.114281061	0.061686419
Fam69b 56279	3.110410578	0.051552391	10.8206	0.011663991

Cml5 69049	3.110410578	0.051552391	10.8206	0.011663991
Amn 93835	3.109956831	0.041910654	3.886828467	0.024940117
Lyz1 17110	3.106509142	0.012594078	3.131760142	0.001449907
Lrrc15 74488	3.102382993	0.007713636	3.102382993	0.007713636
Fam83a 239463	3.101565146	0.020391283	3.691088418	0.002810987
Socs4 67296	3.096277143	0.068824264	18.06161667	0.013357098
A630001G21Rik 31997	3.082959213	0.194284497	-1.134788439	0.440829738
Zfp3 193043	3.078359612	0.025967824	3.078359612	0.025967824
Ranbp17 66011	3.07306	0.233338847	1	#DIV/0!
4930529C04Rik 619677	3.071681119	0.092905816	10.68586667	0.03955673
Gpr137b-ps 664862	3.062543314	0.016703881	5.365907656	0.00598711
Rg9mtd2 108943	3.061880171	0.004318888	2.571188616	0.00311099
Srl 106393	3.056113854	0.082256813	3.056113854	0.082256813
Ccdc28b 66264	3.052034456	0.00213483	2.592036127	0.000686924
Phlda3 27280	3.045634396	0.00114223	3.590575392	0.001265224
Serpina4-ps1 321018	3.035772862	0.058421123	3.035772862	0.058421123
Chrdl2 69121	3.026028196	0.014789388	3.026028196	0.014789388
Lysmd2 70082	3.001957091	0.158372339	2.4065875	0.148212279
Nrip1 268903	3.000609945	0.057647865	5.784507143	0.007629883
Dlec1 320256	2.973988596	0.117939438	1.674490167	0.251025789
Ahsg 11625	2.96829376	4.35996E-07	2.727464196	1.33065E-07
Defb1 13214	2.96477255	8.99996E-06	3.159219059	2.23542E-05
Cyp1a1 13076	2.962906367	0.020700109	6.241014184	0.00037111
Mfap2 17150	2.95313632	0.052099699	2.16180782	0.098348538
Ptar1 72351	2.937747381	0.131848884	6.91114	0.073393406
2010300C02Rik 72097	2.933210314	0.165946787	5.67804	0.173296754
Col3a1 12825	2.926735039	0.001165837	3.201547913	0.00184233
Mef2b 17259	2.916666667	0.170446566	1	#DIV/0!
4930422G04Rik 71643	2.916666667	0.170446566	1	#DIV/0!
Cxcl2 20310	2.916666667	0.170446566	1	#DIV/0!
Clec5a 23845	2.916666667	0.170446566	1	#DIV/0!
Gpr161 240888	2.916666667	0.170446566	1	#DIV/0!
Ifitm6 213002	2.916666667	0.170446566	1	#DIV/0!
Slmo1 225655	2.916666667	0.170446566	1	#DIV/0!
Dach1 13134	2.916666667	0.170446566	1	#DIV/0!
Hist3h2bb-ps 382522	2.916666667	0.170446566	1	#DIV/0!
Gja6 414089	2.916666667	0.170446566	1	#DIV/0!
Atf7ip2 75329	2.916666667	0.170446566	1	#DIV/0!
Idi2 320581	2.916666667	0.170446566	1	#DIV/0!
Actn3 11474	2.916666667	0.170446566	1	#DIV/0!
Prr7 432763	2.916666667	0.170446566	1	#DIV/0!
Gm12060 100134990	2.916666667	0.170446566	1	#DIV/0!
Slit2 20563	2.916666667	0.170446566	1	#DIV/0!
5730590G19Rik 77011	2.916666667	0.170446566	1	#DIV/0!
A2m 232345	2.916666667	0.170446566	1	#DIV/0!
Hrh1 15465	2.916666667	0.170446566	1	#DIV/0!
Gldn 235379	2.916666667	0.170446566	1	#DIV/0!
Gpr61 229714	2.916666667	0.170446566	1	#DIV/0!
Pbk 52033	2.916666667	0.170446566	1	#DIV/0!
Gm14351 668960	2.916666667	0.170446566	1	#DIV/0!
Kif18b 70218	2.916666667	0.170446566	1	#DIV/0!
Gm10416 667213	2.916666667	0.170446566	1	#DIV/0!
Wdr52 212517	2.916666667	0.170446566	1	#DIV/0!

D7Ert443e 71007	2.916666667	0.170446566	1	#DIV/0!
9930111J21Rik1 667214	2.916666667	0.170446566	1	#DIV/0!
Calb1 12307	2.916666667	0.170446566	1	#DIV/0!
5830432E09Rik 67765	2.916666667	0.170446566	1	#DIV/0!
Smcp 17235	2.916666667	0.170446566	1	#DIV/0!
Apol8 239552	2.916666667	0.170446566	1	#DIV/0!
Adamtsl3 269959	2.916666667	0.170446566	1	#DIV/0!
Eddm3b 219026	2.916666667	0.170446566	1	#DIV/0!
Pou2f3 18988	2.916666667	0.170446566	1	#DIV/0!
Stc1 20855	2.916666667	0.170446566	1	#DIV/0!
H2-M5 240095	2.916666667	0.170446566	1	#DIV/0!
Syt4 20983	2.916666667	0.170446566	1	#DIV/0!
Wfdc13 408190	2.916666667	0.170446566	1	#DIV/0!
1700012A16Rik 71836	2.916666667	0.170446566	1	#DIV/0!
Itga2 16398	2.916666667	0.170446566	1	#DIV/0!
Unc5cl 76589	2.916666667	0.170446566	1	#DIV/0!
Gdf3 14562	2.916666667	0.170446566	1	#DIV/0!
Fam163b 109349	2.916666667	0.170446566	1	#DIV/0!
Lrfn1 80749	2.916666667	0.170446566	1	#DIV/0!
A230020J21Rik 100125339	2.916666667	0.170446566	1	#DIV/0!
Cacna1g 12291	2.916666667	0.170446566	1	#DIV/0!
Scara5 71145	2.916666667	0.170446566	1	#DIV/0!
Rab44 442827	2.916666667	0.170446566	1	#DIV/0!
9030418K01Rik 71532	2.916666667	0.170446566	1	#DIV/0!
Gjd3 353155	2.916666667	0.170446566	1	#DIV/0!
Ccdc109b 66815	2.916666667	0.170446566	1	#DIV/0!
Cldnd2 74276	2.916666667	0.170446566	1	#DIV/0!
Fam78b 226610	2.916666667	0.170446566	1	#DIV/0!
Ddx4 13206	2.916666667	0.170446566	1	#DIV/0!
Tmeff1 230157	2.916666667	0.170446566	1	#DIV/0!
Trim15 69097	2.916666667	0.170446566	1	#DIV/0!
Myoz1 59011	2.916666667	0.170446566	1	#DIV/0!
Galnt1 108760	2.916666667	0.170446566	1	#DIV/0!
Cacnb2 12296	2.916666667	0.170446566	1	#DIV/0!
Sfmbt2 353282	2.916666667	0.170446566	1	#DIV/0!
Gm16432 545391	2.916666667	0.170446566	1	#DIV/0!
Defb25 654459	2.916666667	0.170446566	1	#DIV/0!
Dsn1 66934	2.916666667	0.170446566	1	#DIV/0!
Kif15 209737	2.916666667	0.170446566	1	#DIV/0!
Gnrh1 14714	2.916666667	0.170446566	1	#DIV/0!
AU015228 99169	2.916666667	0.170446566	1	#DIV/0!
Pla2g2c 18781	2.916666667	0.170446566	1	#DIV/0!
Cdc7 12545	2.916666667	0.170446566	1	#DIV/0!
Stard6 170461	2.916666667	0.170446566	1	#DIV/0!
Utf1 22286	2.916666667	0.170446566	1	#DIV/0!
Rhag 19743	2.916666667	0.170446566	1	#DIV/0!
Gm11744 100038570	2.89224	0.155528256	3.67672	0.173296754
Lrrn3 16981	2.892152542	0.174223354	4.57358	0.173296754
Cyp21a1 13079	2.886793345	0.238328751	1	#DIV/0!
Mmp8 17394	2.886793345	0.238328751	1	#DIV/0!
Snora31 100303751	2.886793345	0.238328751	1	#DIV/0!
Sparc 20692	2.885448988	4.41793E-06	2.620785849	3.50602E-06
Stk36 269209	2.884148	0.136456126	6.87358	0.077234609

Aph1c 68318	2.880644935	0.035167643	3.954855645	0.028004916
E130317F20Rik 414101	2.87607034	0.076939028	2.87607034	0.076939028
Gm10684 100038468	2.85715	0.170446566	1	#DIV/0!
Nkain1 67149	2.855254079	0.052514697	5.812821429	0.021483219
Kcnab1 16497	2.849053333	0.240100451	1	#DIV/0!
Gm5936 546325	2.843088646	0.157812218	3.53972	0.173296754
Pde10a 23984	2.825459122	0.051299627	5.305119048	0.023535745
Il28ra 242700	2.824352419	0.054691734	4.961628017	0.029557463
Ephb2 13844	2.814005471	0.143554243	2.522267924	0.170579472
Atp4a 11944	2.807114454	0.102657133	9.765483333	0.036994814
Gm6578 625347	2.800028446	0.134958428	1.465737987	0.299106435
Gpr84 80910	2.798276035	0.110663236	3.275507143	0.137461249
Casp1 12362	2.788220077	0.023163397	2.788220077	0.023163397
Mt3 17751	2.787153169	0.161241959	3.53972	0.173296754
Tnfrsf22 79202	2.782386667	0.148760575	6.955966667	0.093223255
Kbtbd12 74589	2.782386667	0.148760575	6.955966667	0.093223255
Kcne3 57442	2.776091341	0.161058636	8.14716	0.070556641
Sytl2 83671	2.761524321	0.131665198	1.651708384	0.282826441
Lefty1 13590	2.757599408	0.108682563	4.84436092	0.075835431
5830433M19Rik 67770	2.756399218	0.02196407	2.759672917	0.020297306
2200002K05Rik 69137	2.750964273	0.149609968	6.7875	0.093349877
Ttc25 74407	2.750964273	0.149609968	6.7875	0.093349877
Slc7a15 328059	2.75024149	0.242980184	1	#DIV/0!
Gimap7 231932	2.739827501	0.225849817	1.282144901	0.403677687
Ntf3 18205	2.734465105	0.029969832	3.268667731	0.004514089
Slc30a3 22784	2.733228473	0.023936667	2.14232367	0.032594979
Lpl 16956	2.729160359	0.073642501	1.683789133	0.053204821
H2-Eb2 381091	2.726013333	0.167391575	3.3	0.173296754
Adcy1 432530	2.722279169	0.075215789	2.671746911	0.091718873
Ifi30 65972	2.720342849	0.001301376	3.2154996	0.001158145
Zfp82 330502	2.719985586	0.221490726	4.57358	0.173296754
Prx 19153	2.716398112	0.097732526	2.716398112	0.097732526
Taf7 24074	2.716266644	0.00011605	2.478310032	3.61116E-05
Carf 241066	2.715	0.152057578	6.7875	0.093349877
1700065D16Rik 73410	2.714286667	0.244880741	1	#DIV/0!
Adamts15 235130	2.713404498	0.018645576	2.285541019	0.038020753
Sypl2 17306	2.696841269	0.15332937	6.7875	0.093349877
Klhl35 72184	2.696132706	0.245863496	1	#DIV/0!
Gm8898 667962	2.690618563	0.056787405	3.5559811	0.04845082
Cacnb1 12295	2.679555487	0.091596511	3.729437629	0.072405744
Tspan2 70747	2.677213483	0.064172469	2.677213483	0.064172469
Zfp52 22710	2.675963394	0.062832648	5.447815476	0.024025977
Rn4.5s 19799	2.665493324	0.026808233	2.04960401	0.031553492
C1qtnf4 67445	2.660307122	0.032223216	4.057709175	0.016528429
2410066E13Rik 68235	2.655794567	0.199970755	3.53972	0.173296754
Fabp7 12140	2.649646748	0.013715606	2.155434307	0.01496086
Wisp2 22403	2.644901703	0.061070498	3.892293061	0.042641762
U05342 664779	2.641694657	0.129703502	14.40573333	0.037388319
Zfp57 22715	2.629614545	0.204910708	3.3	0.173296754
Ppic 19038	2.624083473	0.000730393	2.393000155	0.001017908
H2-Q2 15013	2.614588584	0.192793783	2.056679634	0.287773807
Tmem44 224090	2.61363711	0.004929071	3.907382947	0.000674506
Cdkl5 382253	2.612532873	0.037228385	6.325299372	0.000342126

1110038B12Rik 68763	2.608550791	0.031137125	2.434561288	0.00023327
Rgs20 58175	2.607539394	0.260997899	1	#DIV/0!
Ebf1 13591	2.607539394	0.260997899	1	#DIV/0!
C530028O21Rik 319352	2.603105145	0.007893786	4.147511331	0.00019383
Rab38 72433	2.59640355	0.064304296	4.599236461	0.030617495
Pira1 18722	2.587116252	0.263497363	-2.83174	0.173296754
Kcnj2 16518	2.5851103	0.128882411	2.8375	0.148931563
Tmsb15l 399591	2.575704309	0.162584865	5.83972	0.070910138
Jazf1 231986	2.569056268	0.132724472	2.889777527	0.16314115
Fabp5 16592	2.568420609	0.056266577	2.474011539	0.051193519
Cgref1 68567	2.560854185	0.083559063	1.618917549	0.126633563
Trpm5 56843	2.552982248	0.098723944	3.785941828	0.074465341
Kiss1 280287	2.55060734	0.142920574	2.486665807	0.141944192
Tmem181b-ps 547127	2.550544856	0.082579195	2.919312071	0.049069066
Kcnj15 16516	2.549113815	0.061040819	2.549113815	0.061040819
Gdf15 23886	2.534032693	0.049764334	1.610965677	0.124762153
Csl 71832	2.522788917	0.102748231	5.316067941	0.047644272
Hrk 12123	2.517914875	0.148064975	15.42055	0.041646676
Hist1h2ae 319166	2.517222222	0.187010324	10.57233333	0.093237772
Fxyd2 11936	2.515759198	0.119865831	16.8085	0.017611408
Mup11 100039028	2.504386307	0.017166586	3.994525553	8.30727E-05
1700012L04Rik 76383	2.503493125	0.189577433	1.101858099	0.45752294
Fam105a 223433	2.502444843	0.054944891	4.636983879	0.018121944
Ms4a7 109225	2.499942648	0.032945982	4.242399851	0.001695931
Fam132a 67389	2.499170484	0.095842674	4.981951187	0.044457051
Slc44a4 70129	2.493300172	0.073993218	3.669193055	0.050312798
Cyp4a12b 13118	2.487083939	0.115145375	2.487083939	0.115145375
Tes 21753	2.480663244	0.011677828	1.765747224	0.032827429
4632427E13Rik 666737	2.477653967	0.117495446	4.388884949	0.072624033
Clec9a 232414	2.476312705	0.115210454	2.476312705	0.115210454
Neurl1a 18011	2.475003873	0.120469272	1.458446522	0.255313708
Snord17 100313519	2.470058566	0.168893134	3.53972	0.173296754
4933408B17Rik 271508	2.470058566	0.168893134	3.53972	0.173296754
Zc3h6 78751	2.459397275	0.017606776	3.493962232	0.000354053
Kcnj9 16524	2.45895342	0.2149004	3.53972	0.173296754
Grrp1 72690	2.45071285	0.088983273	2.45071285	0.088983273
Wdyhv1 76773	2.45048315	0.030045549	2.458419579	0.006298747
Ier3 15937	2.449283445	0.168039384	3.856576765	0.15707777
Marco 17167	2.448560981	0.065451299	1.96459241	0.002722507
Fstl3 83554	2.447920618	0.153745599	2.790359268	0.128213591
Purg 75029	2.441730619	0.0206954	2.441730619	0.0206954
Slc4a11 269356	2.437766667	0.171835685	3.53972	0.173296754
Zbtb34 241311	2.43607593	0.00139803	3.11929472	0.000310128
Npas2 18143	2.429386104	0.006446645	2.839820784	0.005785473
Cldn7 53624	2.428781476	0.078067856	4.98608485	0.025165007
Amz1 231842	2.420937789	0.028185563	3.473544971	0.002086567
Nrp 654309	2.420696195	0.153312894	4.067889431	0.110381005
1700020L24Rik 66330	2.419481903	0.229625126	-1.010193328	0.495713255
Adcy3 104111	2.416598239	0.107172252	3.198618768	0.084668453
Lmod2 93677	2.412125424	0.210610801	4.37142	0.173296754
Mup10 100039008	2.406679378	0.199801202	5.488748047	0.132379071
Chga 12652	2.405786044	0.222351506	3.3	0.173296754
Gm10394 100039227	2.405666667	0.170446566	1	#DIV/0!

Bcl2a1a 12044	2.405666667	0.170446566	1	#DIV/0!
Duxbl 278672	2.405666667	0.170446566	1	#DIV/0!
Mettl7a2 393082	2.403699306	0.103703211	4.614924264	0.04929297
Kbtbd8 243574	2.401779261	0.17221504	3.53972	0.173296754
6330439K17Rik 241688	2.393088571	0.16512883	9.25162	0.073125351
2610524H06Rik 330173	2.391606674	0.156448133	2.365584001	0.182575382
ltk 16428	2.389093415	0.176790463	3.3	0.173296754
Il23a 83430	2.389093415	0.176790463	3.3	0.173296754
Myo1h 231646	2.384175508	0.148828838	2.189757812	0.087448342
Prkcc 18752	2.380221654	0.215488643	1.583400343	0.341557484
2610028H24Rik 76964	2.380013328	0.200710039	1	#DIV/0!
Tuba8 53857	2.373244561	0.006330817	2.01214985	0.004296846
Klhdc7b 546648	2.371216878	0.124900356	4.181386905	0.074733521
Atad5 237877	2.36928393	0.21925944	3.53972	0.173296754
Gdpd1 66569	2.368936556	0.01537315	1.995356884	0.033111036
Snrpn 20646	2.364964752	0.147948258	2.364964752	0.147948258
Etv1 14009	2.35786	0.179890944	3.3	0.173296754
B4galnt4 330671	2.35786	0.179890944	3.3	0.173296754
Cbr2 12409	2.35786	0.179890944	3.3	0.173296754
Eif4ebp3 108112	2.356717872	0.023755013	2.791353807	0.001791607
Abca14 67928	2.35452619	0.176928091	3.53972	0.173296754
Fbxo2 230904	2.351226258	0.062046805	1.982912292	0.105577688
Lingo4 320747	2.347597785	0.113520347	2.347597785	0.113520347
Hbegf 15200	2.343443295	0.035762657	2.343443295	0.035762657
Cenpw 66311	2.342471633	0.003615987	2.342471633	0.003615987
Fam54a 71804	2.342089928	0.181499927	3.3	0.173296754
Rnase10 75019	2.342089928	0.181499927	3.3	0.173296754
Vsig2 57276	2.341056373	0.085639457	2.341056373	0.085639457
Gpnmb 93695	2.339928941	0.013389833	2.339928941	0.013389833
1700102P08Rik 112418	2.338355483	0.158242336	2.576554452	0.166099216
A130049A11Rik 100125931	2.336128512	0.087195606	1.680992437	0.179410848
6720463M24Rik 77744	2.33049697	0.1434905	8.011083333	0.041592481
Sytl3 83672	2.33049697	0.1434905	8.011083333	0.041592481
Mex3a 72640	2.324930561	0.148713002	9.765483333	0.036994814
Tbx6 21389	2.324510461	0.120082481	2.324510461	0.120082481
Cdkn1a 12575	2.320331616	0.000574149	1.949242025	0.000531049
2810055G20Rik 77994	2.316591184	0.14872368	8.704166667	0.040875093
Il20rb 213208	2.313923531	0.07686541	1.636863269	0.146560101
Ranbp3l 223332	2.303770277	0.076673611	4.829592357	0.002861308
Gtf3c3 98488	2.303446842	0.083332353	6.555103707	0.001905055
Cend1 57754	2.303238698	0.039209414	3.074171835	0.024170728
Cd300lh 382551	2.30296	0.130123369	5.7574	0.045879649
Hsd17b1 15485	2.302807455	0.146948012	8.011083333	0.041592481
Elf1 243312	2.301900721	0.172488393	2.185849682	0.229040358
Mmp2 17390	2.301516312	0.013846197	1.901963627	0.013607713
Gpcpd1 74182	2.300666261	0.007197504	2.088738822	0.016033855
Zfp28 22690	2.300061582	0.093168148	4.635274094	0.030909972
Ccne1 12447	2.294696164	0.063483626	1.731490523	0.12432269
Slc25a18 71803	2.291301818	0.1993985	4.57358	0.173296754
Galr2 14428	2.291301818	0.1993985	4.57358	0.173296754
Plch2 269615	2.291301818	0.1993985	4.57358	0.173296754
Il13ra2 16165	2.290473333	0.183544433	3.3	0.173296754
Gm3852 100042453	2.290473333	0.183544433	3.3	0.173296754

Ppfia2 327814	2.290473333	0.183544433	3.3	0.173296754
Gucy2c 14917	2.287314907	0.18338723	2.73911337	0.199024953
Ttll10 330010	2.279457836	0.292458552	1	#DIV/0!
Nfasc 269116	2.27529771	0.066768958	2.716264474	0.019677593
Mycn 18109	2.275153963	0.18524447	3.3	0.173296754
Ksr2 333050	2.275153963	0.18524447	3.3	0.173296754
Gpr25 383563	2.275153963	0.18524447	3.3	0.173296754
Senp8 71599	2.274579417	0.052543614	5.05030933	0.002852452
1700120K04Rik 68232	2.273524777	0.239636379	1.282144901	0.403677687
Rnf122 68867	2.266490667	0.030923588	2.142051757	0.021544319
Rims2 116838	2.264077995	0.202427117	4.57358	0.173296754
Gm5176 382421	2.264077995	0.202427117	4.57358	0.173296754
9230114K14Rik 414108	2.261164196	0.117924066	2.637930861	0.112832362
Cxcr6 80901	2.257673417	0.1981054	2.22660095	0.276424976
Kcnk1 16525	2.251261348	0.140423763	1.471957116	0.29708192
Fbp2 14120	2.244866574	0.205786281	4.37142	0.173296754
B3galtl 381694	2.242353424	0.047203915	2.242353424	0.047203915
Cxcr4 12767	2.242131018	0.047688181	1.682774246	0.067909936
Fgf21 56636	2.22043946	0.04010768	1.667096634	0.035509088
Dnmt3b 13436	2.218283759	0.004065788	2.39869549	0.001770362
Zfpm2 22762	2.216210946	0.219369102	-1.134788439	0.440829738
Prex2 109294	2.216160381	0.031667241	2.840056922	0.019698144
Bambi-ps1 81913	2.215651799	0.208060746	4.37142	0.173296754
Fam83c 71405	2.215269076	0.191416965	2.215269076	0.191416965
Zcchc3 67917	2.211327179	0.068548783	3.51551047	0.027762777
Plaur 18793	2.20964514	0.111383424	1.442741632	0.233355605
Mup12 100039054	2.206363097	0.103068227	4.678077427	0.028472374
Slc25a14 20523	2.203809886	0.043488831	2.211106646	0.011587813
Cd28 12487	2.2	0.290356397	1	#DIV/0!
Gab3 210710	2.199665627	0.203988044	1.678513561	0.28897435
Myo5a 17918	2.193968215	0.133069761	2.193968215	0.133069761
Chrna1 11435	2.193518709	0.22487356	-1.202217172	0.412618198
Plk1 18817	2.193265644	0.042079419	2.006262235	0.079761356
Gm684 270157	2.191152743	0.179439119	2.085614286	0.20345464
Rpph1 85029	2.190796733	0.191297962	2.254167548	0.083917159
Cyp3a11 13112	2.190212042	0.005157967	2.215739564	0.000901156
Sdsl 257635	2.189867706	0.000895364	1.781001307	0.001648827
Ctsk 13038	2.1886308	0.076316176	1.582914356	0.146353588
Gm1078 381835	2.188430076	0.270704681	1	#DIV/0!
Gm505 244666	2.181196811	0.163145159	2.536228187	0.180227025
Ammecr1 56068	2.179437443	0.158589641	1.337812817	0.344524566
Mmp7 17393	2.17570462	0.133472163	5.59481597	0.035771861
Arhgap15 76117	2.17332039	0.096493798	3.8645	0.03645035
Pycr1 209027	2.166478569	0.227538243	-1.217222222	0.407029201
Cdk1 12534	2.165065669	0.086906427	2.165065669	0.086906427
Nexn 68810	2.164040602	0.165239983	2.164040602	0.165239983
Tnfrsf23 79201	2.163673492	0.075533076	5.093762175	0.001129622
Ccdc38 237465	2.160493827	0.277241136	1	#DIV/0!
Nlrp1b 637515	2.15982	0.273363112	1	#DIV/0!
Ccnb2 12442	2.15982	0.273363112	1	#DIV/0!
Fstl1 14314	2.158412251	0.014354335	2.489197952	0.000942111
Kiss1r 114229	2.156574601	0.055970663	1.685628806	0.108641563
Adh7 11529	2.15563204	0.041322894	1.666914956	0.057967775

C1qtnf6 72709	2.153554844	0.008752276	2.133333625	0.006360016
Fst 14313	2.151105344	0.025004802	1.800066572	0.052063672
Pkp1 18772	2.145374479	0.274736836	1	#DIV/0!
Kif22 110033	2.141172487	0.121649122	2.141172487	0.121649122
Esm1 71690	2.139378613	0.195786709	1.135800217	0.439334996
Rnf222 320040	2.136554483	0.233161467	12.90835	0.093342877
Fcgbp 215384	2.135513426	0.295738231	-7.752983333	0.04363352
Scn4b 399548	2.13300482	0.059606122	2.701086705	0.00984032
Aatk 11302	2.129745309	0.008068342	1.596354982	0.013828644
Sh3kbp1 58194	2.129603398	0.087769011	3.289617313	0.04192803
Lepr 16847	2.128331766	0.039013422	3.035956208	0.013679005
Sult1e1 20860	2.127358373	0.17107164	3.71340082	0.075478342
Apoa4 11808	2.125675491	0.103542294	1.670077371	0.103075619
Hspa2 15512	2.123844273	0.026330353	1.716730735	0.032847113
Ncapg2 76044	2.12331939	0.220639957	4.57358	0.173296754
Car7 12354	2.119539183	0.054550945	3.71744624	0.00765789
6030429G01Rik 436022	2.118490596	0.223417656	8.898366667	0.093248005
Kbtbd3 69149	2.116930925	0.113248914	3.029013053	0.074474039
Snhg9 73474	2.114605088	0.179845494	2.522267924	0.170579472
2700046G09Rik 67188	2.114009353	0.003430975	2.467344101	0.001959975
BC088983 382010	2.11247683	0.007568708	2.855743599	8.71347E-05
Sag 20215	2.111635179	0.044670144	1.711331436	0.086461645
Ly9 17085	2.104024403	0.006610341	1.941218448	0.014717327
Nat1 17960	2.103318255	0.109114508	3.980420992	0.035292797
2310001K24Rik 69517	2.100965072	0.176137696	2.100965072	0.176137696
Srms 20811	2.099102744	0.196719596	1.885227492	0.252057711
Suv39h2 64707	2.09686603	0.156879055	2.055258092	0.209773586
Pxdn 69675	2.096142662	0.025354505	2.096142662	0.025354505
4930539E08Rik 207819	2.091802609	0.118760139	3.563647335	0.054359203
Gm3435 100041621	2.084896128	0.079441105	2.084896128	0.079441105
Fam161b 217705	2.08411204	0.184317777	2.540464286	0.169047969
Penk 18619	2.083733982	0.216684144	2.083733982	0.216684144
Igsf9 93842	2.077954955	0.153287471	1.880524014	0.189903834
Cx3cl1 20312	2.072067748	0.046512821	2.230650532	0.039428076
Tmem22 245020	2.072038788	0.294164169	1	#DIV/0!
Vgll3 73569	2.072038788	0.294164169	1	#DIV/0!
BC030867 217216	2.070856564	0.131677896	1.374335034	0.285401788
Dbf4 27214	2.065471429	0.218208113	6.91114	0.073393406
Ing4 28019	2.06198126	3.26359E-06	2.149322203	6.7935E-06
Layn 244864	2.061058945	0.128787189	4.360292172	0.036716707
Npb 208990	2.059326037	0.230012729	1.656626026	0.330587367
Tubb2a 22151	2.059242621	0.000272987	1.898604309	0.000121069
Mir715 751530	2.055241209	0.298133654	-2.8202	0.173296754
Tmem171 380863	2.048947682	0.238583655	6.67142	0.075644577
Syt5 53420	2.047420112	0.296653541	1	#DIV/0!
Tppp3 67971	2.046611324	0.152725	7.887068562	0.014687605
Rasgrf2 19418	2.043561543	0.109577893	2.043561543	0.109577893
Gm885 380732	2.040923904	0.148479768	8.185476568	0.010104572
Fhit 14198	2.040243189	0.022333956	2.625529333	0.001719268
A530064D06Rik 328830	2.039908403	0.202163233	5.0331	0.093589634
Avil 11567	2.039908403	0.202163233	5.0331	0.093589634
Itgae 16407	2.038743861	0.232333225	1.621721864	0.33676256
Prom2 192212	2.037492431	0.166085961	3.579326525	0.091893115

Myh7b 668940	2.035443888	0.173272009	1.273215927	0.369574783
Phf11 219131	2.031596688	0.219401834	3.072675697	0.141835809
Dmrt2 226049	2.027466274	0.167836552	3.60514881	0.091113317
Fam46c 74645	2.027073129	0.011325296	1.694444822	0.023649417
Rec8 56739	2.024150909	0.093601779	1.870833456	0.036245303
Zfp783 232785	2.023553939	0.225551501	6.955966667	0.093223255
Hcfc2 67933	2.022887974	0.154570388	1.230196262	0.352308462
Rps6ka3 110651	2.019317778	0.291320956	3.53972	0.173296754
Stk17b 98267	2.019103495	0.063565696	1.570647002	0.123664554
Zfp354c 30944	2.01324	0.20631898	5.0331	0.093589634
Fgfbp1 14181	2.01324	0.20631898	5.0331	0.093589634
Igfbp2 16008	2.011410149	0.00054602	2.038432205	0.000242094
Psmc3ip 19183	2.007461557	0.14951805	3.698758657	0.065622006
Card9 332579	2.006558598	0.113488165	2.223777971	0.072977175
Ltc4s 17001	2.00462337	0.130683874	1.328223571	0.285396401
5031414D18Rik 271221	2.003003439	0.089832033	1.595068474	0.181975171
Ly6a 110454	2.001552185	0.001163746	1.846822786	0.001629888
Ncam2 17968	1.994377827	0.157329603	1.994377827	0.157329603
Tfrc 22042	1.993922385	0.028426766	3.456360381	0.000034163
Epn3 71889	1.99310854	0.147972076	1.99310854	0.147972076
Slc37a1 224674	1.992835384	0.033178872	1.992835384	0.033178872
Dgkh 380921	1.991124477	0.164149999	1.991124477	0.164149999
Ap1m2 11768	1.990635056	0.235634918	1.656626026	0.330587367
Prom1 19126	1.989109759	0.249775977	-1.400394585	0.339887238
40977 216438	1.98906558	0.115531066	1.98906558	0.115531066
Myof 226101	1.988642512	0.120980629	1.954657622	0.07924522
AY512931 434310	1.98691199	0.173929923	3.519590809	0.093837856
Dnali1 75563	1.985301171	0.286197212	1	#DIV/0!
Steap1 70358	1.985301171	0.286197212	1	#DIV/0!
Ubd 24108	1.985301171	0.286197212	1	#DIV/0!
Lcn13 227627	1.985301171	0.286197212	1	#DIV/0!
Lta 16992	1.985301171	0.286197212	1	#DIV/0!
BC051142 407788	1.985301171	0.286197212	1	#DIV/0!
Lysmd4 75099	1.980849033	0.012742687	2.274520969	0.000380822
Mcts2 66405	1.980704072	0.012181779	2.49941426	0.003333406
Cyp2b10 13088	1.97760177	0.020226082	2.25797696	0.002420754
Pitx3 18742	1.974545455	0.231988449	6.7875	0.093349877
Spata6 67946	1.974026667	0.302735013	1	#DIV/0!
4632434I11Rik 74041	1.968463151	0.220449069	1.101858099	0.45752294
E130309D14Rik 432582	1.968454166	0.158798979	1.968454166	0.158798979
Rassf1 56289	1.967644374	0.006453285	2.09898358	0.000544821
Rbp1 19659	1.967350955	0.058643857	1.914304262	0.030184113
Tab3 66724	1.967215378	0.01890877	1.686124017	0.030737548
Smpd3 58994	1.961678463	0.077461557	2.61305197	0.044159231
Wdr96 70806	1.96083565	0.220136118	1.138603377	0.444164115
Brip1 237911	1.960420074	0.168104463	1.960420074	0.168104463
4930538K18Rik 75180	1.960302262	0.178886823	3.472454672	0.096192094
BC060267 212516	1.959346667	0.289264215	1	#DIV/0!
Spink5 72432	1.959346667	0.289264215	1	#DIV/0!
Dyx1c1 67685	1.959346667	0.289264215	1	#DIV/0!
Baalc 118452	1.959346667	0.289264215	1	#DIV/0!
Gm8580 667338	1.959346667	0.289264215	1	#DIV/0!
Ccl11 20292	1.959346667	0.289264215	1	#DIV/0!

Dnase1 13419	1.959346667	0.289264215	1	#DIV/0!
Fut7 14347	1.958999665	0.246712071	3.3	0.173296754
Trim36 28105	1.958999665	0.246712071	3.3	0.173296754
Zfp658 210104	1.953071829	0.175935369	1.150887417	0.405805975
3110007F17Rik 73061	1.951085134	0.235807493	6.7875	0.093349877
Ints10 70885	1.950490713	0.096660172	1.950490713	0.096660172
Dzip3 224170	1.9483722	0.155525754	2.019641377	0.144590241
Muc4 140474	1.946241971	0.290847976	1	#DIV/0!
Itm2a 16431	1.946241971	0.290847976	1	#DIV/0!
Gm13275 545652	1.946241971	0.290847976	1	#DIV/0!
Pdzd4 245469	1.944437603	0.179571152	1.944437603	0.179571152
Gpr137b 83924	1.942829125	0.209940218	1.023981074	0.486887059
Slc9a5 277973	1.94175242	0.070019944	2.305650535	0.015335482
Creb3l4 78284	1.938031143	0.188170772	3.905680448	0.086032803
Ier5l 72500	1.937245201	0.118341906	3.268101674	0.041409704
Jmjd5 77035	1.93668277	0.013257348	2.266295749	0.007863698
Hspb1 15507	1.93544959	0.028378217	2.184202953	0.024927151
9130017N09Rik 78906	1.933503171	0.27032728	-1.809413362	0.226028814
Vpreb1 22362	1.933268044	0.247043309	1.656626026	0.330587367
A330035P11Rik 319727	1.928883645	0.007868311	1.656124792	0.003106526
Marveld3 73608	1.927876176	0.095452585	2.262623317	0.044965343
Eid1 58521	1.925679661	0.019519075	1.925679661	0.019519075
Ugt1a6a 94284	1.923739013	0.210679737	-1.025878318	0.453827192
Gadd45b 17873	1.92305936	0.002641501	2.065628744	0.00053833
Itga10 213119	1.922457896	0.110645728	1.391465011	0.233856321
Trove2 20822	1.922422757	0.112451801	1.922422757	0.112451801
Tal1 21349	1.922113627	0.166705323	5.06877381	0.032065754
Capn3 12335	1.916248261	0.133938064	2.870671244	0.07220323
Il1a 16175	1.916180134	0.108370733	1.820487034	0.111036953
Apol7b 278679	1.916037164	0.25914363	1	#DIV/0!
Fam198b 68659	1.912613584	0.304682484	-4.016833333	0.093227909
Txk 22165	1.912227017	0.208392139	7.842616667	0.040301615
Cidec 14311	1.910994211	0.141016799	2.047605433	0.053903212
Runx1 12394	1.905478734	0.032548491	2.567618806	0.000690233
Hspa1b 15511	1.904566786	0.091060947	2.269347998	0.074324716
Sh3tc2 225608	1.903617393	0.074881546	3.390054844	0.001362515
Glt25d2 269132	1.902621674	0.077536435	2.257293357	0.01892472
Lysmd1 217779	1.901497049	5.40958E-05	2.02109471	8.67866E-07
Fosb 14282	1.900778191	0.14426159	1.394162681	0.290810988
Ddit4 74747	1.899115409	0.053630163	1.523151917	0.099826314
Tmem54 66260	1.895670226	0.313548122	1	#DIV/0!
Cnksr1 194231	1.894918071	0.241377687	-1.174476973	0.420024314
Zfp846 244721	1.892908801	0.178794118	1.892908801	0.178794118
Tspan13 66109	1.892362268	0.114526768	1.126562206	0.376045493
Fanca 14087	1.892337384	0.150358689	1.892337384	0.150358689
Col8a1 12837	1.890470678	0.231884769	-1.162638987	0.41190955
Ddah2 51793	1.890232859	0.013703879	1.675390751	0.024971637
Dcdc2c 68511	1.888041275	0.096070096	1.888041275	0.096070096
5730528L13Rik 66665	1.887852815	0.266293326	-1.426573059	0.352378067
5430405H02Rik 74487	1.887684593	0.061937661	1.217042356	0.195139733
Igfbp1 16006	1.886098867	0.130745046	1.925998776	0.103697721
Siglech 233274	1.885254977	0.12510092	2.764166053	0.064647616
Tbx21 57765	1.883833924	0.120575076	1.595428175	0.189013465

Klf7 93691	1.882202326	0.14337754	3.192546191	0.056981832
Myo9a 270163	1.880144888	0.089675214	2.247580254	0.022733228
Cyp2d12 380997	1.873223624	0.085914719	1.955564114	0.064015483
Uchl1 22223	1.86793095	0.265184327	1.282144901	0.403677687
Cacna2d1 12293	1.867489037	0.239825307	3.320684524	0.155017867
1700084E18Rik 67350	1.867032963	0.128763403	1.867032963	0.128763403
Tmsb15b1 666244	1.866970666	0.260477861	3.53972	0.173296754
A530016L24Rik 319942	1.862740498	0.197405026	3.497505952	0.095363911
Ehhadh 74147	1.861911261	0.05347085	2.178873156	0.040674574
B430010I23Rik 78849	1.860139241	0.30187567	1	#DIV/0!
Dusp18 75219	1.851312328	0.254394939	6.955966667	0.093223255
Kcna6 16494	1.851312328	0.254394939	6.955966667	0.093223255
4932412H11Rik 242838	1.850062673	0.083122889	1.525256151	0.168033467
Zfp97 22759	1.849137617	0.115846707	2.684457243	0.036792832
Spsb4 211949	1.845932937	0.16121437	-1.103316447	0.330148753
Tmprss7 208171	1.843836	0.322338549	1	#DIV/0!
Mcm6 17219	1.843785888	0.008928312	1.700296016	0.019195677
Jhdm1d 338523	1.840651077	0.004745942	2.187984517	0.000968336
Skp2 27401	1.839848893	0.2147503	1.510407341	0.324601155
Tet3 194388	1.83638884	0.023662505	2.006477848	0.010864762
Dclre1c 227525	1.833769191	0.042059703	2.683141734	0.001654843
Lig4 319583	1.832544396	0.10940121	2.681593502	0.012429051
Rufy4 435626	1.832047627	0.135357138	1.832047627	0.135357138
Cd63 12512	1.830288376	0.027903065	1.886615748	0.036277974
Ecm2 407800	1.829758324	0.133563277	1.269051753	0.292224207
Clec3b 21922	1.828548408	0.258785711	7.1133	0.074643367
Nid2 18074	1.827234954	0.090477552	1.455004478	0.186254313
Med23 70208	1.82661756	0.028617177	2.519072422	0.002459056
Ttc32 75516	1.826507951	0.005107483	1.938736061	0.00292119
Cldn15 60363	1.819787048	0.215306112	3.618330576	0.10102568
Gm14207 100043609	1.819718321	0.142478868	1.269700358	0.309313476
Parp16 214424	1.816580892	0.011615038	1.569294186	0.009061054
Snhg6 73824	1.814799478	0.01040376	1.408684724	0.022457994
Rcan3 53902	1.814753172	0.162299917	1.18458007	0.365432505
Zfp273 212569	1.814209841	0.246917908	3.223135008	0.156688344
4931428F04Rik 74356	1.813231469	0.162219399	2.429793257	0.112989565
Prss57 73106	1.81110758	0.324261626	1	#DIV/0!
Zfp605 675812	1.809934083	0.183687906	1.809934083	0.183687906
Arl6 56297	1.807544058	0.154461078	1.807544058	0.154461078
Cyp2d9 13105	1.806977275	0.047225227	1.650674848	0.055279471
Tnfrsf18 21936	1.806636712	0.200313113	1.18929412	0.403510819
Psrc1 56742	1.806475366	0.261786747	6.7875	0.093349877
Ccdc19 71870	1.806475366	0.261786747	6.7875	0.093349877
Fam64a 109212	1.806475366	0.261786747	6.7875	0.093349877
Spnb4 80297	1.806475366	0.261786747	6.7875	0.093349877
Hspb11 72938	1.805956502	0.211816892	1.83139214	0.184075273
Edn1 13614	1.805903505	0.088316047	1.182982474	0.302553007
Col6a1 12833	1.80427886	0.001882042	1.802201697	0.000717476
Pik3cb 74769	1.800031909	0.006084966	1.54867738	0.010268405
Ovol1 18426	1.799334436	0.185076784	1.240252903	0.371501171
Zfp821 75871	1.798982278	0.126234781	1.222081006	0.270544159
Itgax 16411	1.798884543	0.225862309	1.812305732	0.263474441
Epc2 227867	1.797572484	0.011232787	1.414889956	0.037499412

Kcnj5 16521	1.795327656	0.316423918	-3.967316667	0.09324139
Lrrc8c 100604	1.793547681	0.06385905	1.183135955	0.208922724
Mansc1 67729	1.792748372	0.077417935	2.812322306	0.002762728
Ppp1r2-ps3 546723	1.792222246	0.217668718	1.154511099	0.426935518
Ephb3 13845	1.791502058	0.11700592	1.791502058	0.11700592
Chka 12660	1.790557051	0.064567217	1.429717899	0.020162251
Ctnnbip1 67087	1.788661109	0.005185969	1.81772115	0.000586067
Pkia 18767	1.787999197	0.274366994	1.264185714	0.40907038
Sult1d1 53315	1.787167947	0.008315686	1.912031992	8.36347E-05
A330023F24Rik 320977	1.786004684	0.071770901	2.921065285	0.004705172
Ccna2 12428	1.785497074	0.157127453	2.176844107	0.127815782
Stx1a 20907	1.784800511	0.172700259	1.703271258	0.125853994
Msc 17681	1.784682105	0.250591835	-1.066288814	0.470534859
4930544O15Rik 75173	1.783573733	0.261874253	-1.075198276	0.470223483
Mpzl1 68481	1.78306785	0.006096781	2.201680587	4.36302E-05
Efemp1 216616	1.780261558	0.076158226	2.130996759	0.009842697
ltga8 241226	1.779802277	0.182514258	-1.089058757	0.37677266
Pkib 18768	1.779258376	0.069126935	1.63781005	0.02260723
Slc25a35 71998	1.77760003	0.12834542	1.77760003	0.12834542
Galnt11 231050	1.777344437	0.034871659	1.484838724	0.072119937
Efna2 13637	1.777182487	0.272033416	1.621721864	0.33676256
Ear2 13587	1.775864738	0.131925283	1.775864738	0.131925283
Oxct1 67041	1.774319356	0.100657983	1.367954468	0.210139847
Fut2 14344	1.772921212	0.26552988	3.53972	0.173296754
B930059L03Rik 319786	1.772921212	0.26552988	3.53972	0.173296754
Pdgfd 71785	1.772921212	0.26552988	3.53972	0.173296754
Stat4 20849	1.772921212	0.26552988	3.53972	0.173296754
Gm17821 100316870	1.772290507	0.153902129	1.173255876	0.351135792
Ric3 320360	1.77193439	0.273114192	1.633421429	0.334663434
Hsd17b13 243168	1.770711074	0.001423228	1.58321934	0.001835554
Agap2 216439	1.76854733	0.046418039	1.476148479	0.087568903
Hic2 58180	1.768246968	0.01706697	2.436033584	0.000120424
Slc5a3 53881	1.767457338	0.105301734	2.197988533	0.025066395
Gata3 14462	1.766820878	0.228575886	10.8206	0.011663991
2410006H16Rik 69221	1.765657507	0.077881156	1.562107498	0.015306015
Pcdhga1 93709	1.763475608	0.326873436	1	#DIV/0!
Col5a1 12831	1.762894969	0.008834558	1.934678399	0.000133289
Btg2 12227	1.762318164	0.144433555	2.017209207	0.009939599
2610035D17Rik 72386	1.760992284	0.074786241	3.148286877	0.000611846
Lmod3 320502	1.760917905	0.144112669	1.912093547	0.123041915
Slc12a8 171286	1.757751544	0.171115474	1.146381847	0.387961247
Nudt21 68219	1.757170488	0.015460604	1.735276099	0.00141261
H2-Ob 15002	1.756074819	0.213104934	1.672705826	0.268647481
Angptl7 654812	1.753784568	0.161531694	2.794105545	0.068038367
Cenph 26886	1.751856465	0.269870644	3.53972	0.173296754
2610020H08Rik 434234	1.74864438	0.150037751	1.74864438	0.150037751
Fbxl16 214931	1.748510801	0.167672588	3.685770001	0.008344521
Cd209b 69165	1.747952614	0.318935971	3.3	0.173296754
Zfp451 98403	1.747783013	0.062198589	1.747783013	0.062198589
Zfp959 224893	1.742218307	0.047531538	1.568345932	0.087102845
Rasal1 19415	1.741806123	0.210784685	-1.022983438	0.482344907
Emcn 59308	1.74138881	0.033108366	1.575025606	0.064344019
Ush1g 16470	1.741055127	0.166435849	-1.050596242	0.448492769

Kifc1 100042970	1.740651071	0.169005504	2.841706696	0.068706115
Prf1 18646	1.739962815	0.223787884	1.161797284	0.423418494
Nhlrc1 105193	1.739883241	0.092224062	2.407124419	0.032735318
Gins2 272551	1.739656996	0.197232994	2.794941181	0.102756446
Abhd10 213012	1.738235227	0.013335056	1.575073231	0.029166502
Ptpdc1 218232	1.737793143	0.127591068	2.452384709	0.058602847
Krt23 94179	1.737114812	0.131235988	1.737114812	0.131235988
Lzic 69151	1.737090033	0.002955914	1.976369559	0.00077934
Col4a2 12827	1.736979094	2.13639E-05	1.821740748	2.16022E-05
Fam186b 545136	1.736676989	0.334571441	1	#DIV/0!
Cks2 66197	1.735700168	0.10561465	1.763947743	0.037253545
C1galt1c1 59048	1.735590156	0.000279736	1.907986483	6.42354E-05
Cdy12 75796	1.733716803	0.15360861	2.483012638	0.020371565
Ramp3 56089	1.732294275	0.181885827	1.843195698	0.110966406
Tnni2 21953	1.731704079	0.251125963	1.731704079	0.251125963
Nfe2 18022	1.730130982	0.290244161	1.195314368	0.428478238
Rarres1 109222	1.730100691	0.026798247	2.380697793	3.11289E-05
Dll1 13388	1.729578131	0.010637865	1.729578131	0.010637865
Cyb5r1 72017	1.729551784	0.003858571	1.435813019	0.000958772
Dbdd2 52840	1.726938418	0.011919613	1.529651904	0.025648072
Lrdd 57913	1.726065198	0.163097076	2.35528214	0.062278499
2310004N24Rik 69535	1.725196086	0.100782864	1.108633165	0.287286593
Cd300lf 246746	1.724785363	0.00056329	1.928470282	7.94367E-05
Col1a1 12842	1.721825668	0.045244534	1.299759363	0.152217594
Sash3 74131	1.721021135	0.068593456	1.301826224	0.053890885
Smarca5-ps 545700	1.719804593	0.009727439	1.719804593	0.009727439
Cenpk 60411	1.71937522	0.291968926	1.178571429	0.43416
Shisa4 77552	1.71937522	0.291968926	1.178571429	0.43416
Kcnab2 16498	1.718469773	0.121030551	1.329766625	0.251485966
Accn5 58170	1.716352782	0.002090329	1.439185911	0.003522238
Ckap2 80986	1.714807273	0.277582289	3.3	0.173296754
Dpysl3 22240	1.714807273	0.277582289	3.3	0.173296754
Dnmt3a 13435	1.71383065	0.001354634	1.785844441	0.000201942
Tmem80 71448	1.713764996	0.022986222	1.562325511	0.046984063
D630032N06Rik 654810	1.713717165	0.147843662	4.055582598	0.000652268
Fam83g 69640	1.711561302	0.018996389	1.711561302	0.018996389
Ccdc106 232821	1.711147256	0.058010461	2.149159003	0.023422073
Pcdhb16 93887	1.710854104	0.254378817	1.710854104	0.254378817
Bfsp2 107993	1.710854104	0.254378817	1.710854104	0.254378817
4930579G22Rik 69034	1.710536334	0.267667343	-1.207318182	0.410710794
Adam8 11501	1.710536334	0.267667343	-1.207318182	0.410710794
Vangl2 93840	1.710384512	0.290156517	3.53972	0.173296754
Serpnb6b 20708	1.710214518	0.11028437	3.298156346	0.000197535
Fbxl22 74165	1.710162403	0.16328143	1.183427785	0.358411948
Ccdc138 76138	1.709700266	0.028334413	2.236112773	0.001490233
Slc9a7 236727	1.709491575	0.231419597	2.115242794	0.199265129
Exd1 241624	1.709462987	0.227036993	1.072515922	0.460982508
Tmem29 382245	1.708618854	0.141213054	1.43902314	0.178969994
Cybrd1 73649	1.707492233	0.244198189	1.022371059	0.488874049
Wdr86 269633	1.706194715	0.22539027	1.706194715	0.22539027
Btbd11 74007	1.705274093	0.184911255	1.705274093	0.184911255
Srrm4 68955	1.704100317	0.059954125	1.952395527	0.044373009
Gcnt1 14537	1.703625617	0.255866169	1.703625617	0.255866169

Smok3a 545814	1.703625617	0.255866169	1.703625617	0.255866169
Dnahc1 110084	1.703430269	0.278007657	3.53972	0.173296754
Wt1 22431	1.703430269	0.278007657	3.53972	0.173296754
Pi15 94227	1.703430269	0.278007657	3.53972	0.173296754
Grap2 17444	1.7	0.339818682	1	#DIV/0!
Gnpda2 67980	1.699387637	0.126068259	1.428674132	0.208987186
Ankrd9 74251	1.699176302	0.093758255	1.95642891	0.074601532
Mbip 217588	1.69899193	0.161947626	1.218406139	0.342702781
Hs3st1 15476	1.695730498	0.34062582	1	#DIV/0!
Prr18 320111	1.694433	0.282056419	3.3	0.173296754
Mbd4 17193	1.694012395	0.212697946	1.821115418	0.200948525
Vcam1 22329	1.693944121	0.023511608	1.488706307	0.042004168
Pms2 18861	1.6935719	0.052516991	1.440002085	0.105258322
Pigf 18701	1.692938638	0.156907336	1.085655529	0.377576123
Tmem206 66950	1.692498016	0.085943141	1.311504657	0.167144999
Rad54b 623474	1.690479956	0.174340794	2.97593794	0.049958104
Slc7a10 53896	1.690137306	0.203690447	1.386923112	0.166845771
Gm13315 625342	1.68976391	0.258744163	1.68976391	0.258744163
C5ar1 12273	1.687817161	0.081243525	1.290873716	0.135833757
Airn 104103	1.68717619	0.247310324	2.628480853	0.116118185
Nanp 67311	1.686355938	0.02405028	1.507505494	0.047992762
Atp1a3 232975	1.685024599	0.083236902	1.685024599	0.083236902
Wdr54 75659	1.684117565	0.165443657	1.684117565	0.165443657
Dip2a 64451	1.682825195	0.066415187	1.682825195	0.066415187
Insig2 72999	1.682129121	0.019839264	1.540656675	0.041351494
Elov17 74559	1.6819329	0.079951444	1.6819329	0.079951444
A330069E16Rik 606735	1.680274376	0.171521126	1.118080797	0.394830313
Syt6 54524	1.675322584	0.20855111	1.542129164	0.275963748
Cd48 12506	1.673950796	0.168670083	3.685421333	0.005826323
Tgif1 21815	1.672893046	0.016903457	1.842750691	0.0031074
E130012A19Rik 103551	1.672072696	0.013036737	1.549040332	0.002105175
Tmem146 106757	1.671238691	0.165596091	2.147528101	0.112038532
Slc8a3 110893	1.670918023	0.154260638	1.670918023	0.154260638
Atad2b 320817	1.669917167	0.049286721	1.914344735	0.033015476
Tnnc1 21924	1.669137207	0.168789764	1.801115536	0.140617952
Erp29 67397	1.668462013	0.003901476	1.536803774	0.005588999
Krr1 52705	1.667167849	0.026937062	1.716725195	0.005058466
Usp11 236733	1.666712393	0.094188072	1.435338308	0.181910264
Rab36 76877	1.666496373	0.045681388	2.044672393	0.016290145
Dync2li1 213575	1.66518265	0.234308448	1.02476681	0.485703619
Neu3 50877	1.663177059	0.036498129	2.062716556	0.008987374
Wdhd1 218973	1.662844164	0.285085214	1.446634395	0.37940868
Sh3pxd2b 268396	1.662281413	0.10592893	2.164525682	0.049243938
Pdgfra 18595	1.661502139	0.053168492	1.924325303	0.00574447
Epcam 17075	1.658917542	0.08667398	2.359416025	0.003884268
Hbb-b1 15129	1.658808621	0.171135035	1.05586455	0.427938081
Pim2 18715	1.658251384	0.019006746	1.780601518	0.009386387
Raet1e 379043	1.65803139	0.16978345	1.965652706	0.113942275
Ng23 78376	1.657400179	0.279682712	10.68586667	0.03955673
Cyth3 19159	1.65722947	0.002042493	1.561350672	0.003935428
2810030E01Rik 72668	1.656308014	0.234924922	4.996574711	0.015247526
Rab30 75985	1.655995849	0.006425989	1.655995849	0.006425989
Pygm 19309	1.655458762	0.19544163	2.511424773	0.098401738

Plp1 18823	1.65496306	0.293997646	6.7875	0.093349877
2810021B07Rik 66308	1.654770698	0.013962365	1.562543792	0.005172639
2410137F16Rik 76798	1.65311698	0.049677617	1.823515109	0.000534107
Wipi1 52639	1.649950383	0.027026089	2.127702102	0.000140678
Egr3 13655	1.646006803	0.290703755	3.3	0.173296754
B3galt6 117592	1.643935222	0.017913926	1.669474221	0.00601375
4933421E11Rik 321000	1.643668916	0.139795695	2.811726142	0.016368122
Zfp449 78619	1.642434197	0.304308741	1.264185714	0.40907038
Zfp40 22700	1.641908034	0.186520531	2.562985067	0.078656243
Armcx5 494468	1.641726912	0.133000759	1.956941884	0.041573613
S100a9 20202	1.639865273	0.205082172	2.25638843	0.131729559
Pdgfb 18591	1.639785943	0.117553031	1.297355082	0.244620616
Dnal1 105000	1.638835762	0.286085794	-1.591089844	0.221834324
Wwtr1 97064	1.637902241	0.023253166	1.801856214	0.00559497
4933430H15Rik 74485	1.637634894	0.354082855	-5.925	0.173296754
40969 72925	1.63757504	0.317334291	-2.305926269	0.163045149
AU018091 245128	1.635608	0.307092358	3.3	0.173296754
Ccdc39 51938	1.635249119	0.330786619	1	#DIV/0!
Dpysl2 12934	1.635219745	0.093746883	1.635219745	0.093746883
Chic2 74277	1.634456015	0.054750552	1.376056289	0.105309207
Lepre1 56401	1.634419673	0.001742034	1.634419673	0.001742034
Pot1a 101185	1.634302801	0.017722571	1.416974326	0.034758524
Alg11 207958	1.631288237	0.099144374	1.776843013	0.069860994
Tdg 21665	1.631250763	0.0003055	1.851294875	9.40261E-06
Plagl1 22634	1.630344615	0.280842618	17.66206667	0.013575129
Csad 246277	1.629664286	0.046941103	1.85112938	0.007702907
5330426P16Rik 68190	1.629620238	0.083456989	1.256503542	0.135659571
Chsy3 78923	1.627568608	0.090868264	1.125571103	0.331498439
Ampd3 11717	1.625667229	0.11320683	2.690317436	0.001913164
Brsk1 381979	1.622981059	0.281827988	2.416498236	0.177579722
Yy2 100073351	1.622191011	0.338059472	1	#DIV/0!
Ccdc136 232664	1.62201305	0.299045994	3.53972	0.173296754
Top2a 21973	1.62201305	0.299045994	3.53972	0.173296754
Spef1 70997	1.621861073	0.079702089	1.156735878	0.254705091
Nid1 18073	1.62092155	0.025165198	2.032004612	0.001891444
Cd93 17064	1.620481641	0.013355103	1.834817538	0.005442019
Ripply1 622473	1.620006918	0.109418172	2.482791777	0.00478219
Ms4a6b 69774	1.619123801	0.215488456	1.034552071	0.474591385
B930041F14Rik 230991	1.61804507	0.129623833	1.92939465	0.035965247
Sowahc 268301	1.617891915	0.103755829	1.617891915	0.103755829
Dnm1 13429	1.617232416	0.168687387	1.368976929	0.2586574
Ccnb1 268697	1.615943179	0.303199473	6.7875	0.093349877
Dusp5 240672	1.614646679	0.282028388	3.280483654	0.135584145
Klhl23 277396	1.614003622	0.119958136	1.924575533	0.027838627
Neil2 382913	1.613822526	0.204946328	1.150188264	0.403957413
N28178 230085	1.612968336	0.286060305	1.656626026	0.330587367
C1qtnf3 81799	1.612271091	0.329399618	1	#DIV/0!
Enkur 71233	1.612271091	0.329399618	1	#DIV/0!
Pate2 330921	1.612271091	0.329399618	1	#DIV/0!
Naa11 97243	1.612271091	0.329399618	1	#DIV/0!
AI854703 243373	1.612271091	0.329399618	1	#DIV/0!
6330403A02Rik 381310	1.612271091	0.329399618	1	#DIV/0!
4930539J05Rik 319587	1.612271091	0.329399618	1	#DIV/0!

Ddx25 30959	1.612271091	0.329399618	1	#DIV/0!
Cryba4 12959	1.612271091	0.329399618	1	#DIV/0!
Dnajb13 69387	1.612271091	0.329399618	1	#DIV/0!
Sfrp4 20379	1.612271091	0.329399618	1	#DIV/0!
Zfp353 234203	1.612271091	0.329399618	1	#DIV/0!
Bst1 12182	1.612271091	0.329399618	1	#DIV/0!
Stc2 20856	1.612271091	0.329399618	1	#DIV/0!
Bicd1 12121	1.612271091	0.329399618	1	#DIV/0!
Celf3 78784	1.612271091	0.329399618	1	#DIV/0!
D630042P16Rik 243612	1.612271091	0.329399618	1	#DIV/0!
E230008N13Rik 381522	1.612271091	0.329399618	1	#DIV/0!
4930486L24Rik 214639	1.610299403	0.24916252	3.286172748	0.091708258
Ablim2 231148	1.609464281	0.064952026	1.863579639	0.008588502
Dcakd 68087	1.609446259	0.000143569	1.476339825	3.01731E-05
Gulp1 70676	1.609028219	0.242591433	2.86110119	0.109735813
Nrg4 83961	1.608617475	0.012856647	1.608617475	0.012856647
Atr 245000	1.608331881	0.165536819	1.159746679	0.360352085
Myadm 50918	1.608086824	0.023359229	1.455713508	0.049074279
Pus7l 78895	1.607172561	0.066179081	1.752046554	0.017436041
Gm14430 627914	1.606469787	0.273142306	4.265682105	0.084695435
Sesn3 75747	1.606390303	0.186819853	1.938834203	0.145831587
Opn3 13603	1.605987021	0.201435558	2.26552607	0.114826986
Ctsf 56464	1.605984493	0.000355363	1.426465138	0.000260911
D030056L22Rik 225995	1.605594909	0.094715339	2.689412067	0.000348772
P2ry14 140795	1.605590687	0.175073558	1.605590687	0.175073558
Gm4841 225594	1.605445423	0.119479619	1.276859448	0.248987319
1700021C14Rik 76927	1.605164826	0.161675246	1.605164826	0.161675246
Nasp 50927	1.604128761	0.003901397	1.71822512	0.00298969
Lama2 16773	1.603533792	0.171647025	1.603533792	0.171647025
Gm3230 100041244	1.603410186	0.1908988	1.603410186	0.1908988
Eif3j 78655	1.602958309	0.006995331	1.839362787	0.001126859
Dusp22 105352	1.602626874	0.002739512	1.518785601	0.005855771
Retnlg 245195	1.60073399	0.252065169	3.286172748	0.091708258
Zfp472 224691	1.599960359	0.232411893	1.599960359	0.232411893
Gas2l3 237436	1.599272212	0.057190988	1.184722635	0.161224317
Smoc2 64074	1.599246733	0.040753925	1.95887898	0.009648713
Ccbp2 59289	1.599205728	0.127719482	1.599205728	0.127719482
1810011H11Rik 69069	1.599096849	0.260571911	-1.058006311	0.468991309
Id4 15904	1.598845597	0.162066484	1.598845597	0.162066484
Spa17 20686	1.598651823	0.247926028	-1.037466066	0.477413445
D16Ert472e 67102	1.598422055	0.007726001	1.598422055	0.007726001
Tmem194b 227094	1.598214999	0.284206304	5.191177856	0.074944339
Nedd1 17997	1.596600817	0.115474362	1.264206874	0.243064343
Hist2h3c2-ps 97114	1.594619687	0.218656718	2.925783386	0.067209103
Fcrla 98752	1.594344022	0.12711092	2.618395089	0.003831982
Gabpb1 14391	1.592773053	0.00614252	1.439893325	0.012161006
Fam134b 66270	1.592536899	0.067561217	1.471544529	0.066667248
6530418L21Rik 109050	1.592473714	0.224462127	2.95373508	0.071577527
Cyp2c67 545288	1.591918179	0.007090146	1.601646286	0.001884363
Lancl1 14768	1.591471844	0.002388913	1.665682536	0.001298225
D430020J02Rik 319545	1.591193333	0.333510192	1	#DIV/0!
Bcl2l15 229672	1.591193333	0.333510192	1	#DIV/0!
Pif1 208084	1.591193333	0.333510192	1	#DIV/0!

Srpk3 56504	1.591193333	0.333510192	1	#DIV/0!
4932418E24Rik 329366	1.591193333	0.333510192	1	#DIV/0!
Tmem45a 56277	1.591193333	0.333510192	1	#DIV/0!
Chl1 12661	1.591193333	0.333510192	1	#DIV/0!
Sprr2b 20756	1.591193333	0.333510192	1	#DIV/0!
Gpm6b 14758	1.591193333	0.333510192	1	#DIV/0!
Ckmt1 12716	1.591193333	0.333510192	1	#DIV/0!
Gng8 14709	1.591193333	0.333510192	1	#DIV/0!
Slc23a3 22626	1.591193333	0.333510192	1	#DIV/0!
Dcx 13193	1.591193333	0.333510192	1	#DIV/0!
Tll1 21892	1.591193333	0.333510192	1	#DIV/0!
Zcchc5 213436	1.591193333	0.333510192	1	#DIV/0!
Nup210 54563	1.590926934	0.005163037	1.914753749	0.000133265
Ppm1h 319468	1.590665639	0.057227654	2.148649147	0.003543931
Fam72a 108900	1.590446028	0.31730025	1.170129778	0.437059136
Jag2 16450	1.589790083	0.290294141	1.621721864	0.33676256
Cerk 223753	1.588946837	0.044856175	1.3860525	0.08897764
Gprin3 243385	1.587447821	0.201069479	2.277317959	0.10591002
Snupn 66069	1.587309293	0.023059387	1.747241268	0.004350286
Tmem116 77462	1.586550029	0.14557918	1.156464707	0.325969498
B3galnt1 26879	1.585600248	0.247540931	2.840724964	0.108233825
Morc4 75746	1.58488368	0.06677429	1.155106376	0.251654237
Klhdc3 71765	1.581859358	0.014515732	1.407203286	0.016919528
Rps6ka5 73086	1.581674262	0.293285717	1.561221429	0.345871498
Mier3 218613	1.581373308	0.113823035	1.894277172	0.017593478
Hapln1 12950	1.580550957	0.335626927	1	#DIV/0!
Ak8 68870	1.580550957	0.335626927	1	#DIV/0!
2010015L04Rik 544678	1.580550957	0.335626927	1	#DIV/0!
Glb1l2 244757	1.580550957	0.335626927	1	#DIV/0!
Nudt11 58242	1.580550957	0.335626927	1	#DIV/0!
Cxcr2 12765	1.580550957	0.335626927	1	#DIV/0!
Fsd1l 319636	1.580550957	0.335626927	1	#DIV/0!
Pcdhb14 93885	1.580550957	0.335626927	1	#DIV/0!
Hes7 84653	1.580550957	0.335626927	1	#DIV/0!
Fasl 14103	1.580550957	0.335626927	1	#DIV/0!
Optc 269120	1.580550957	0.335626927	1	#DIV/0!
Slc4a10 94229	1.580550957	0.335626927	1	#DIV/0!
P2rx6 18440	1.580550957	0.335626927	1	#DIV/0!
Ly86 17084	1.580239076	0.08482527	1.861862536	0.01425558
Gjc3 118446	1.579920553	0.07632588	1.312006845	0.154570709
2410022L05Rik 66423	1.57788623	0.120627201	1.57788623	0.120627201
Gabrr2 14409	1.577176088	0.30820807	3.53972	0.173296754
Dnd1 213236	1.575613358	0.198628813	2.516108079	0.07074333
Hoxa5 15402	1.575490549	0.269689825	1.492617986	0.321647633
Fdxacb1 382137	1.574961386	0.078665184	1.42116787	0.147901136
Sestd1 228071	1.57430781	0.252213203	1.192147174	0.369163595
Gpx7 67305	1.573831363	0.082496685	1.43010164	0.150824899
1700030K09Rik 72254	1.572678536	0.080601178	1.572678536	0.080601178
ltga11 319480	1.572421054	0.300720352	3.327242993	0.08214779
Dtna 13527	1.572179196	0.301935514	3.422055173	0.136421656
Gt(ROSA)26Sor 14910	1.571768582	0.147996493	2.132183595	0.06274425
Lyz2 17105	1.571066609	0.020978591	1.360990167	0.014562262
Calr4 108802	1.570778182	0.352322708	1	#DIV/0!

Cox6b2 333182	1.570358496	0.23182545	-1.088200321	0.423395033
9130019P16Rik 100042056	1.570256579	0.337701205	1	#DIV/0!
Foxq1 15220	1.570175412	0.041192701	2.145683924	0.001199667
1600002K03Rik 69770	1.56985325	0.007767184	1.644830435	0.001568458
Slc7a4 224022	1.56965119	0.249730179	-1.092720178	0.438525627
Hmgb2 97165	1.568599541	0.03865003	1.4512837	0.004966728
Tmem88b 320587	1.567918006	0.142613859	1.877702539	0.038067883
H2-BI 14963	1.566738995	0.281967429	1.093820762	0.456057209
Tctn1 654470	1.565884542	0.141154224	2.849911855	0.002551325
Gfpt2 14584	1.565732637	0.177085292	1.565732637	0.177085292
Rfc5 72151	1.56369916	0.026287288	1.56369916	0.026287288
Tomm20 67952	1.562911843	0.005730443	1.465093774	0.013306094
Frat2 212398	1.562817387	0.015008263	1.938019809	5.19821E-05
Btdb10 68815	1.562718128	0.110105921	1.554503445	0.01407623
Vash1 238328	1.562314689	0.179042935	2.502290241	0.045014704
Gjc2 118454	1.562108025	0.14243572	1.562108025	0.14243572
Il7r 16197	1.561689375	0.319149176	1.264185714	0.40907038
Arhgef10 234094	1.561174097	0.081170525	2.355225044	0.000294116
Rasl11a 68895	1.560918253	0.263471521	-1.021117677	0.48843767
Nbl1 17965	1.560616914	0.224123569	1.560616914	0.224123569
0610010012Rik 66060	1.559585688	0.013424795	1.411261452	0.028579683
Dnajb5 56323	1.559465084	0.070041396	1.329946116	0.142902753
Prkra 23992	1.559429544	0.084471454	1.538733998	0.055104923
Tbc1d9 71310	1.558043053	0.169975312	1.558043053	0.169975312
Syn3 27204	1.558033426	0.060014449	1.733225681	0.020325823
Ly6c2 100041546	1.556760423	0.302448095	-1.413112558	0.336046301
Fabp4 11770	1.555888027	0.130996482	1.633621918	0.088940405
Trim30b 244183	1.55578618	0.298658649	1.550039004	0.34809122
Uck2 80914	1.555534351	0.013009059	1.402923563	0.018157915
Lgi3 213469	1.555052675	0.342162404	1.170129778	0.437059136
Mitf 17342	1.554501312	0.154793217	2.659005118	0.006003288
Rprd1a 225283	1.553921026	0.019442125	1.553921026	0.019442125
Pacrgl 66768	1.553752432	0.151815086	1.559325676	0.129875028
Snx8 231834	1.553603244	0.003666477	1.581292096	0.001339715
Fam73a 215708	1.553110455	0.009704595	1.669422325	0.001839827
Msh5 17687	1.552285189	0.300408339	1.202941586	0.406502778
Col9a3 12841	1.552115173	0.355818567	1	#DIV/0!
Grip2 243547	1.552115173	0.355818567	1	#DIV/0!
Spns1 73658	1.552114521	1.86231E-05	1.50462401	2.42115E-05
Unc45b 217012	1.551522209	0.110816912	1.295191071	0.207300744
D3Ertd254e 241944	1.550321623	0.205456718	-1.012658604	0.48573066
Mitd1 69028	1.550054037	0.181041043	1.702241461	0.128772699
Thbd 21824	1.549981151	0.15441603	1.179650758	0.32896355
Trmt11 73681	1.549749327	0.158044517	2.30907801	0.040354098
Pla2g7 27226	1.549663498	0.055437868	1.484157313	0.020365534
Trem12 328833	1.54965616	0.202792098	1.309465955	0.298915572
Dnaic1 68922	1.549216748	0.208533331	1.409166295	0.255948929
Gfod1 328232	1.548744518	0.237273037	1.548744518	0.237273037
Camk4 12326	1.548400408	0.238457863	1.897134943	0.18332558
Pdk4 27273	1.548297846	0.082605725	1.597363838	0.045847794
Cnnm1 83674	1.548130419	0.300774108	1.561221429	0.345871498
Tmem200b 623230	1.547672227	0.159807021	1.31376077	0.214507599
Fmo3 14262	1.546794514	0.042880032	1.963178797	0.001247135

Mycl1 16918	1.544664124	0.063517674	1.739653145	0.042698852
Dmrta2 242620	1.543991786	0.340461672	1	#DIV/0!
Mybpc2 233199	1.543991786	0.340461672	1	#DIV/0!
Ptpr1 19279	1.543991786	0.340461672	1	#DIV/0!
Tex12 66654	1.543991786	0.340461672	1	#DIV/0!
Lhfp14 269788	1.543991786	0.340461672	1	#DIV/0!
Crlf1 12931	1.543991786	0.340461672	1	#DIV/0!
Al429214 621080	1.543659029	0.274025351	-1.545699182	0.181043012
Myc 17869	1.543225787	0.101162912	1.089161531	0.354665473
Loxl4 67573	1.542782138	0.146056754	1.127108982	0.33185127
Lnx1 16924	1.540895169	0.280208374	-1.187493756	0.402928474
Col1a2 12843	1.540750877	0.015148384	1.852572646	0.000966699
Wfdc2 67701	1.538068644	0.20152326	-1.168801684	0.274855216
Xrn1 24127	1.537985247	0.196644878	-1.083893283	0.420822078
Trim13 66597	1.537977707	0.183943505	1.299597075	0.283667164
Figf 14205	1.537025115	0.231473699	2.088968806	0.109749661
Styx 56291	1.536301193	0.219565828	2.801802244	0.050413261
Fpgt 75540	1.536143441	0.218346592	2.598637941	0.067424281
Hcst 23900	1.535983687	0.266660878	1.256853002	0.375302811
Fmn2 54418	1.535813957	0.214574236	2.097063616	0.12559501
2210408121Rik 72371	1.535762912	0.271142875	3.152792568	0.097328085
Pnrc1 108767	1.53510786	0.041387844	1.555842865	0.007378161
Lrrn4cl 68852	1.534816085	0.206154791	1.534816085	0.206154791
Ppid 67738	1.534522964	0.041166701	1.534522964	0.041166701
Mmp11 17385	1.534353078	0.093865424	1.67257936	0.058867608
Phf10 72057	1.533265584	0.019953762	1.72476554	0.007948434
Mup20 381530	1.533140166	0.003629128	1.793632035	6.05279E-05
Gm14403 433520	1.531839274	0.062308366	1.695764071	0.003324117
Apex2 77622	1.53089955	0.025376986	1.734764466	0.010107784
Gm14434 668039	1.530409833	0.292898403	3.711837887	0.101383067
Rwdd2a 69519	1.529982304	0.320965612	-1.76025563	0.245710688
Chadl 214685	1.52959715	0.244522287	1.576626233	0.241936065
Anxa13 69787	1.529512029	0.246558279	2.176557753	0.150790365
Fytd1 69823	1.529481084	0.031438407	1.803747552	0.006922127
Gm561 228715	1.529241847	0.042860945	1.368290734	0.086429621
Hagl 68977	1.529007951	0.11325651	1.529007951	0.11325651
Med31 67279	1.528499771	0.118717161	1.277679232	0.219991269
Them4 75778	1.527974844	0.004694177	1.478063041	0.001694963
Zfp366 238803	1.526082857	0.345733557	3.53972	0.173296754
Agxt2l1 71760	1.525569137	0.0080857	1.389069131	0.008470735
Blmh 104184	1.525383658	0.000624579	1.525383658	0.000624579
Ptprm 19274	1.524458804	0.188661168	1.160908025	0.373083355
Gm4013 100042757	1.524198416	0.090880098	1.44444941	0.094530773
Cyp2c40 13099	1.524037714	5.89652E-05	1.514136635	7.71541E-06
Phospho1 237928	1.523977009	0.028281498	1.523977009	0.028281498
Gm5607 434280	1.523806667	0.344811039	1	#DIV/0!
Gpr143 18241	1.523806667	0.344811039	1	#DIV/0!
Eda2r 245527	1.523806667	0.344811039	1	#DIV/0!
Spata17 74717	1.523806667	0.344811039	1	#DIV/0!
Cyb5r2 320635	1.523806667	0.344811039	1	#DIV/0!
AU023871 106722	1.523806667	0.344811039	1	#DIV/0!
Il1rn 16181	1.523665053	0.031750869	1.347817839	0.056407876
Hspa1l 15482	1.523593207	0.180133251	2.074413169	0.084458387

Ccno 218630	1.523122753	0.177202593	1.815633751	0.068671382
Rnf144a 108089	1.521787154	0.067416119	1.717408719	0.011454019
Serpinh1 12406	1.521617511	0.012522605	1.371995266	0.014588717
Lamtor3 56692	1.521566859	0.008030339	1.521566859	0.008030339
Fbxo44 230903	1.520979276	0.063378479	1.565434627	0.037322805
Clec4n 56620	1.520585967	0.251566621	1.341255403	0.276262558
Leprotl1 68192	1.520308446	0.001878333	1.336276236	0.003597429
Rab3b 69908	1.520171418	0.223219206	2.451183368	0.081306495
Rasl2-9-ps 19428	1.519895066	0.208242547	1.056067682	0.451113008
Slc43a2 215113	1.518996735	0.026644094	1.275738218	0.047380587
Dnajc24 99349	1.518634373	0.143762708	1.85808255	0.084413074
Abcb1b 18669	1.517868413	0.127813212	1.963768857	0.042895707
Hist1h2ac 319164	1.517325281	0.294290837	-1.327863533	0.3395387
Cyp26b1 232174	1.517253848	0.175138758	1.311476574	0.266994516
Egfl6 54156	1.517219203	0.298445829	-1.134788439	0.440829738
Otud1 71198	1.516809503	0.184149991	1.516809503	0.184149991
Kctd5 69259	1.516270061	0.003559442	1.595094914	0.000489951
Galntl2 78754	1.515658791	0.362921753	-4.6202	0.07056113
Loxl2 94352	1.515001621	0.11542724	1.659504888	0.053043363
6330503K22Rik 101565	1.514113161	0.246076273	4.287574707	0.004643506
Pcdhb9 93880	1.513614992	0.347048781	1	#DIV/0!
Espnl 227357	1.513614992	0.347048781	1	#DIV/0!
Wnt6 22420	1.513614992	0.347048781	1	#DIV/0!
Cacna1h 58226	1.513614992	0.347048781	1	#DIV/0!
Cdkl3 213084	1.513614992	0.347048781	1	#DIV/0!
Muc2 17831	1.513614992	0.347048781	1	#DIV/0!
Foxred2 239554	1.513614992	0.347048781	1	#DIV/0!
Hmga2 15364	1.513614992	0.347048781	1	#DIV/0!
Arl4a 11861	1.512815055	0.018808521	1.435935565	0.016907704
4933433P14Rik 66787	1.510478533	0.056422827	1.201561744	0.186737957
Elf4 56501	1.509758557	0.084037864	1.784058531	0.040996457
Eef1e1 66143	1.509091414	0.049851427	1.902142762	0.00389414
4921531C22Rik 66730	1.508119084	0.143125479	1.508119084	0.143125479
Tdp1 104884	1.506845115	0.191157632	1.062828363	0.4340114
Basp1 70350	1.505555795	0.229516995	2.722960505	0.053310408
Yod1 226418	1.505360233	0.079234556	1.677589338	0.029385856
Ostc 66357	1.505213455	0.003698621	1.505213455	0.003698621
Rps27a 78294	1.503780395	0.05899527	1.246739733	0.077578772
Al506816 433855	1.503576894	0.018465531	1.228203987	0.01899898
Mbnl3 171170	1.503284651	0.266908369	-1.364833499	0.27514407
Cth 107869	1.502899451	0.077606159	1.502899451	0.077606159
Uap1l1 227620	1.501499268	0.118694157	1.231810917	0.093864715
Rab12 68708	1.500779567	0.16057069	1.814235327	0.10326542
Gnb4 14696	1.500275723	0.245041763	1.810320672	0.174098776
Usp2 53376	1.500018051	0.114804354	1.500018051	0.114804354
Cdca4 71963	1.499212742	0.079290751	1.388359563	0.13154936
Id1 15901	1.49918516	0.221235865	1.098701917	0.364479087
Utp23 78581	1.498266283	0.022851095	1.323865223	0.044744872
Gpr153 100129	1.49812176	0.126542799	1.897636837	0.012509157
Metrn1 210029	1.497167297	0.058621107	1.497167297	0.058621107
Abcg3 27405	1.496594879	0.250812516	2.09719198	0.085248798
Caskin1 268932	1.496485249	0.296372051	1.869568631	0.262507494
Itga5 16402	1.496091338	0.000841445	1.444909909	9.08194E-05

Cd86 12524	1.495086867	0.249474109	1.495086867	0.249474109
Col4a1 12826	1.494456392	0.01019788	1.378848238	0.022095056
Pam16 66449	1.494285688	0.090368043	1.723161268	0.015507514
Pdpxp 57028	1.49369221	0.302924202	-1.120799574	0.446529338
Cxx1c 72865	1.493638138	0.240689816	-1.048079823	0.460385891
Syt9 60510	1.49363479	0.284847167	2.497345645	0.15023545
Cntnap1 53321	1.49318664	0.218886533	1.075820605	0.440481019
Rab34 19376	1.492712295	0.169996807	1.06103035	0.409963228
Akr1b3 11677	1.49139661	0.032425612	1.702621254	0.011095391
Slc25a33 70556	1.49068832	0.076461858	1.27179778	0.156051525
Zfp109 56869	1.49057391	0.298051838	3.884819044	0.079108848
Tmem189 407243	1.489694628	0.024470261	1.375578277	0.051076718
Dcaf4 73828	1.488135949	0.116163928	1.263372542	0.231804503
Gata5 14464	1.487381248	0.304720339	-1.125555129	0.444583663
Zfp688 69234	1.486767757	0.074543312	1.269328572	0.158402985
Gm16515 24083	1.486691234	0.098782751	1.766817784	0.048429334
Cyb561 13056	1.486682606	0.01289864	1.486682606	0.01289864
Gm10052 654467	1.486498468	0.054425788	1.708514668	0.024044223
Zyg11a 230590	1.485971928	0.334366802	3.53972	0.173296754
Glp2r 93896	1.485802747	0.307469052	-1.202217172	0.412618198
Gm6225 633947	1.485365753	0.295536465	3.142379154	0.110829606
Gal3st1 53897	1.485353516	0.181174725	1.935212217	0.03877158
Dleu2 668253	1.483734761	0.085025644	1.274874458	0.174638979
Dis3 72662	1.483440762	0.071698186	1.2935024	0.146717988
Cd300lb 217304	1.483338548	0.250884917	1.397926113	0.268339602
Asf1a 66403	1.483189256	0.178755872	1.304274245	0.20307533
Fam189a2 381217	1.482617595	0.078993409	1.393575225	0.028167327
Tigd2 68140	1.482576269	0.080882018	1.380783218	0.142321095
Ccdc148 227933	1.482247167	0.169329044	1.193865056	0.329205452
1110020A21Rik 68531	1.48143262	0.220529882	2.067446514	0.111647371
Tmem39a 67846	1.480191197	0.030323204	1.886250268	0.000644759
5430402O13Rik 73183	1.479301419	0.204870007	1.11607949	0.40463379
2610039C10Rik 66578	1.478748007	0.255313892	2.049454485	0.157687848
Ctdspl2 329506	1.478354143	0.187782579	1.14140149	0.375388333
Gpr157 269604	1.478028226	0.012069183	1.478028226	0.012069183
Anxa1 16952	1.477864408	0.229834851	2.082032377	0.118941435
Celf2 14007	1.477777878	0.123766061	1.402830161	0.140365493
Bok 51800	1.477398605	0.00866254	1.361571201	0.018187599
Galc 14420	1.476931759	0.021432313	1.634307207	0.0095011
Rad51c 114714	1.476797103	0.180016042	1.917674808	0.018159798
Cyp2c69 100043108	1.476643144	0.042819821	1.476643144	0.042819821
Ppp1r14a 68458	1.476234581	0.202429315	1.476234581	0.202429315
Snx24 69226	1.47569025	0.113471698	1.074861404	0.388119972
Zfp651 270210	1.475125874	0.092836532	1.475125874	0.092836532
Gtpbp2 56055	1.474356772	0.012217025	1.433855061	0.002944848
Wdr47 99512	1.473239224	0.267382334	1.247693513	0.359706472
Unc13b 22249	1.470855997	0.023081946	1.674915903	0.005375902
Trim45 229644	1.470472773	0.197742655	1.470472773	0.197742655
Tmtc1 387314	1.468820233	0.13853875	1.473527165	0.038804557
Tomt 791260	1.468576966	0.225550785	-1.178587428	0.333808582
Gem 14579	1.468368912	0.228583045	1.672315717	0.160612305
Cav1 12389	1.468218653	0.288998444	-1.123819285	0.432906884
Ctla2a 13024	1.467784128	0.13787279	2.203102937	0.00440941

Prr15 78004	1.467486826	0.312698756	-1.217222222	0.407029201
Rnmt 67897	1.467441968	0.010653239	1.594639417	0.004902311
Cep70 68121	1.467274298	0.303617064	1.741557483	0.264325109
Plxna1 18844	1.465644466	0.064454262	1.15061706	0.236867964
Lsm5 66373	1.465086614	0.276650904	1.817915524	0.21549686
Mlf1 17349	1.464174545	0.330521691	5.0331	0.093589634
A830080D01Rik 382252	1.464174545	0.330521691	5.0331	0.093589634
Rassf10 78748	1.464174545	0.330521691	5.0331	0.093589634
Kdm2b 30841	1.463624351	0.160700159	1.452099642	0.11742642
Cbr3 109857	1.463490639	0.084966591	1.770455624	0.027365596
Syt12 171180	1.462378844	0.220447848	-1.142453521	0.367631576
Gm9992 667055	1.462120402	0.252754229	1.009326982	0.493355312
Slc26a11 268512	1.461948145	0.005808637	1.371075532	0.012994408
Ahi1 52906	1.461445604	0.324601227	1.550039004	0.34809122
Adnp2 240442	1.46139495	0.219793073	2.342400888	0.05690876
Chrm1 12669	1.461294043	0.16165591	1.6257827	0.098804297
Zmat1 215693	1.460974562	0.168629251	-1.043883908	0.44080055
Rbbp8 225182	1.460620565	0.145477328	1.479873563	0.050321416
Eml6 237711	1.460606061	0.371637124	1	#DIV/0!
Atp11b 76295	1.459736247	0.064850385	1.661121937	0.013621546
Tmem55b 219024	1.459719215	0.007043215	1.551012435	0.004807465
Fam187b 76415	1.459251864	0.048677622	1.378918222	0.085859652
Slc35e3 215436	1.458149029	0.092891839	1.614380504	0.009062465
Tat 234724	1.458120092	0.07800485	1.710750107	0.031974476
Nap1l1 53605	1.457400894	0.002920931	1.457400894	0.002920931
Slco1a1 28248	1.457149104	0.041225585	1.626926634	0.020332895
Eri1 67276	1.455321313	0.189934072	1.891633522	0.095431409
Pgam5 72542	1.455195459	0.084607691	1.360478228	0.011097706
Gm15772 100034726	1.45508339	0.397040671	-159.72342	0.070951641
Fam164c 72350	1.454635324	0.054712534	1.565094754	0.028377718
Jph1 57339	1.454545455	0.372796286	1	#DIV/0!
4930453N24Rik 67609	1.453967228	0.052609639	1.679115368	0.018253246
Nlrp12 378425	1.453309796	0.03670937	1.304634286	0.070894495
Gm10639 100042314	1.452857727	0.27526477	1.452857727	0.27526477
Tfeb 21425	1.45278101	0.009083848	1.380682422	0.020407911
Ccdc122 108811	1.45235913	0.201357566	1.126176735	0.391450626
Cpeb3 208922	1.452306823	0.222505383	1.407813988	0.218020386
2810454H06Rik 72813	1.452171165	0.372720229	-2.76078	0.173296754
Nip7 66164	1.450196588	0.005789742	1.54401215	0.003464869
Col4a3 12828	1.450055071	0.338996507	10.68586667	0.03955673
Adra1a 11549	1.448068237	0.104114654	2.03128055	0.001335851
D230037D09Rik 320351	1.447897694	0.088418718	1.930340432	0.004248331
Ggt5 23887	1.447659507	0.025715275	1.315368297	0.047765982
Tmem198 319998	1.447445361	0.343047623	-1.924451597	0.222249861
Samsn1 67742	1.447377722	0.300100475	-1.186624586	0.403199787
Hccs 15159	1.447235225	0.118265324	1.382152726	0.165346169
A830082N09Rik 414093	1.446778134	0.335849673	5.0331	0.093589634
Nek2 18005	1.445879939	0.272876361	-1.131666396	0.407857015
Scamp5 56807	1.445458226	0.015854416	1.549177813	0.010346847
4931440P22Rik 71004	1.443330144	0.258568166	1.443330144	0.258568166
Mark1 226778	1.44319648	0.292197929	1.380313321	0.29986082
Pigc 67292	1.44306489	0.037172174	1.44306489	0.037172174
Tusc5 237858	1.44203427	0.161159893	1.189560462	0.313745804

Rab6b 270192	1.441643016	0.144010578	1.197318563	0.288572468
Sspn 16651	1.441451757	0.22189476	1.875628403	0.128510793
Ift80 68259	1.441285413	0.304948702	1.441285413	0.304948702
Dpy19l1 244745	1.441280805	0.012885667	1.331853063	0.022070456
Enox2 209224	1.441050153	0.112757746	1.578445871	0.064241961
Thsd7a 330267	1.440855769	0.277153022	1.440855769	0.277153022
Tmem164 209497	1.439204059	0.104135116	1.720025429	0.04301679
Cpxm1 56264	1.438958506	0.077866574	1.096291686	0.300850527
Tmem50b 77975	1.437994786	0.133275232	1.437994786	0.133275232
Gm4535 100043585	1.437978445	0.198843461	1.713296487	0.07598982
Pargl 26430	1.437884884	0.007658356	1.437884884	0.007658356
Aifm2 71361	1.437573464	5.00433E-05	1.437573464	5.00433E-05
P2ry12 70839	1.43726345	0.376580875	1	#DIV/0!
Gm6377 622976	1.43726345	0.376580875	1	#DIV/0!
Fgfbp3 72514	1.436533446	0.237920079	2.159930886	0.091964252
Mdga1 74762	1.43640584	0.333714983	1.255130842	0.411829119
Pak6 214230	1.435511399	0.145314012	1.285884312	0.229163778
Tollip 54473	1.435381699	0.000518031	1.451707806	7.60791E-05
Tspyl2 52808	1.434994058	0.011105822	1.434994058	0.011105822
Nfxl1 100978	1.434677285	0.151005267	1.67894942	0.041930173
Ercc8 71991	1.434281115	0.182052227	1.200815148	0.306148939
E130308A19Rik 230259	1.434125302	0.196182397	1.200686053	0.318876424
Msh2 17685	1.433837131	0.03926054	1.403177762	0.00819562
Cep57l1 103268	1.433801186	0.230330496	1.433801186	0.230330496
Cyp4f18 72054	1.432388113	0.223314613	-1.04543465	0.459223657
1700040L02Rik 73287	1.431859551	0.144352513	2.062429783	0.009656562
Apbb1ip 54519	1.431638614	0.149190799	2.133336226	0.012898604
Far1 67420	1.430582801	0.377132364	-2.8	0.173296754
Pros1 19128	1.429847337	0.067297671	1.429847337	0.067297671
4833442J19Rik 320204	1.429686467	0.054978668	1.284954306	0.063605765
Ccl25 20300	1.428859426	0.204287231	1.428859426	0.204287231
Dcun1d3 233805	1.428476905	0.007934991	1.428476905	0.007934991
Trim72 434246	1.428291419	0.303595886	2.385256317	0.155903388
Prps1l3 328099	1.427923604	0.077184489	1.575328796	0.052359391
Tmem120b 330189	1.427468184	0.248842224	-1.324980782	0.166775619
Cpz 242939	1.426810116	0.281612218	1.426810116	0.281612218
Morf4l1 21761	1.426642794	0.000803631	1.300191428	0.001265608
Fbxo10 269529	1.426265734	0.179612997	1.101534391	0.384044447
Cd3g 12502	1.426091385	0.185710805	1.701700637	0.056908728
Cspg4 121021	1.42603798	0.270682115	1.42603798	0.270682115
Tmem216 68642	1.425649041	0.129003991	1.425649041	0.129003991
Olfr1033 258571	1.425324895	0.243160342	-1.235682044	0.284787689
Cdca5 67849	1.424979394	0.378608862	1	#DIV/0!
Manba 110173	1.424694653	0.105698136	1.286728984	0.181311222
Cry1 12952	1.424548817	0.039626761	1.310347507	0.001941683
Wdr92 103784	1.424266957	0.043448151	1.424266957	0.043448151
Nat14 269854	1.424114757	0.151589424	1.650753753	0.099230678
Pfn2 18645	1.424047249	0.1781429	1.699516571	0.048298843
Npat 244879	1.42400877	0.081804854	1.900174054	0.002051717
Glt28d2 320302	1.423893733	0.151376284	1.705952512	0.020989191
Polr2h 245841	1.423216272	0.080014808	1.661197783	0.010589413
Cln6 76524	1.422685465	0.147508512	1.137626726	0.121554816
Mettl4 76781	1.422576061	0.277399557	-1.092741834	0.436908946

Whsc1 107823	1.422350706	0.076418429	1.589388028	0.045391128
BC100451 58251	1.422228	0.35122214	3.53972	0.173296754
Mtf2 17765	1.422147473	0.298482829	-1.260274249	0.343823515
Vav1 22324	1.421968815	0.147811996	1.421968815	0.147811996
Fam35a 75698	1.421939759	0.01705109	1.54165182	0.008193389
4930579K19Rik 75881	1.421921731	0.307271044	2.901746366	0.107384197
Plekhg1 213783	1.421166703	0.067528335	1.408662508	0.019979567
Mfsd7c 217721	1.420652013	0.049519676	1.757833209	0.001699707
Yrdc 230734	1.4206216	0.001218221	1.4206216	0.001218221
Carns1 107239	1.420558972	0.232722014	1.032411096	0.471270506
Polr2d 69241	1.420223621	0.036072785	1.331962237	0.020237041
Ccl27b 100040048	1.420092323	0.321518831	8.404084902	0.000634102
Tek 21687	1.419753073	0.151971233	1.365267355	0.166163244
Siva1 30954	1.419503692	0.034726264	1.299475984	0.070500943
H2-M3 14991	1.418900874	0.114061243	1.939007863	0.004869833
Tmc7 209760	1.418188539	0.167304048	1.655232943	0.067647171
Plk2 20620	1.418074066	0.038447271	1.302695499	0.078096678
Ctsl 13039	1.417230989	0.024522743	1.548842919	0.011426539
Rcn1 19672	1.416584869	0.025599819	1.169398589	0.076128199
Lrat 79235	1.416518739	0.168374716	1.667761447	0.049128382
41162 103080	1.416464953	0.163193599	1.584200382	0.068347162
Kdm6b 216850	1.416437965	0.029242679	1.266481161	0.042606312
Itgb2 16414	1.416009848	0.113356762	1.201110115	0.234899837
Col4a5 12830	1.415746909	0.260529353	1.415746909	0.260529353
Klhl9 242521	1.415568679	0.031405274	1.595111493	0.00850716
Cd83 12522	1.415454893	0.271041297	1.196041987	0.373753569
Setdb2 239122	1.414400783	0.313738203	-1.596986964	0.106972279
C2cd4d 271944	1.413799646	0.209716476	1.735794837	0.023828646
Pafah1b3 18476	1.413378372	0.216116258	-1.032875478	0.453316681
Phf13 230936	1.413210152	0.176110567	1.82096403	0.071668902
Sp5 64406	1.413115412	0.276999541	-1.452450598	0.137779374
Mogat1 68393	1.413023282	0.299755667	1.413023282	0.299755667
Smc5 226026	1.412423922	0.260619969	-1.002172774	0.498351266
Fancm 104806	1.411850242	0.281237636	-1.003996774	0.497448057
Ttc8 76260	1.411798147	0.261293896	2.004778333	0.135859139
Lbr 98386	1.41162008	0.187632119	1.889024934	0.066820898
2610301B20Rik 67157	1.411037523	0.219253234	1.072975131	0.433157647
Col5a2 12832	1.410495482	0.236545323	1.421702807	0.194334091
Ins16 27356	1.410196042	0.324347148	1.09482839	0.450334516
2310008H04Rik 224008	1.409812937	0.243399914	2.442770362	0.038925762
Grap 71520	1.409284483	0.0378249	1.141154007	0.115295609
Mageh1 75625	1.409096735	0.207231055	1.552504139	0.180598188
Tuft1 22156	1.409090056	0.177980305	1.589685246	0.098142136
Nccrp1 233038	1.40824647	0.307271775	2.160783016	0.178229908
Arc 11838	1.408048675	0.382468346	1	#DIV/0!
Rel 19696	1.408048675	0.382468346	1	#DIV/0!
1110034G24Rik 73747	1.40788285	0.043273091	1.516755155	0.010380729
Dctpp1 66422	1.407862899	0.055590452	1.379545932	0.014239642
Zbtb16 235320	1.407385018	0.154961926	1.150203817	0.320095041
Slc15a2 57738	1.407275347	0.197590539	1.407275347	0.197590539
Ntpcr 66566	1.406961559	0.046263349	1.136851567	0.170467988
Arl3 56350	1.406753351	0.042861338	1.334996708	0.030518999
Inpp5d 16331	1.406502749	0.104577901	1.706698025	0.03065706

Rltpr 234695	1.406228221	0.305356037	1.406228221	0.305356037
Tlr13 279572	1.405995325	0.276471615	1.441053198	0.29170982
Ncrna00085 75202	1.405526824	0.213261271	1.405526824	0.213261271
Gtf2a2 235459	1.40535501	0.034237626	1.286955417	0.070836622
Hist3h2a 319162	1.404600058	0.090026539	1.528523259	0.068273553
Enho 69638	1.404264327	0.041237745	1.152162089	0.155358038
Park2 50873	1.403712234	0.068235728	1.224194344	0.135634807
LOC319574 319574	1.403651984	0.298859436	1.267785937	0.377660013
Prkcq 18761	1.403377248	0.250440253	1.176928072	0.367056618
Col6a5 665033	1.403376716	0.358032949	3.3	0.173296754
Atp1b2 11932	1.401737131	0.168950262	1.738173047	0.059269753
Pcdhgb4 93701	1.401654008	0.387686767	1	#DIV/0!
Tmem79 71913	1.400949732	0.198290108	1.357658581	0.184495712
Cela2a 13706	1.400610955	0.285581	-1.36168866	0.078568306
Rbak 57782	1.400476448	0.225012303	1.734326902	0.123566277
Ppp1r3c 53412	1.400350331	0.043449129	1.343486997	0.000111711
Lrrc42 77809	1.400043293	0.014561619	1.498343912	0.008131867
Wdr91 101240	1.399883378	0.018947685	1.655766915	0.000085238
Psg23 56868	1.399745384	0.203319559	2.238544129	0.012421612
C030048B08Rik 269623	1.399400124	0.15300152	-1.04882757	0.385253224
Sox9 20682	1.399244899	0.066058938	1.549182811	0.037780502
Senp1 223870	1.398862163	0.171347591	-1.022317423	0.468778024
Jam2 67374	1.398526315	0.282053085	-1.118818431	0.415602248
Wdr89 72338	1.398046966	0.142280761	1.09887391	0.32063493
Abhd13 68904	1.397813297	0.073306137	1.455740935	0.002756559
Slamf7 75345	1.397339487	0.320838157	-1.071785009	0.465764816
Armcx2 67416	1.397323052	0.261380443	2.060191377	0.007945367
Il18r1 16182	1.397200771	0.02669261	1.448055668	0.005802332
Zdhhc1 70796	1.397033813	0.08969211	1.070907198	0.342167162
Wdsub1 72137	1.396732471	0.049148588	1.707646131	0.003496516
BC002230 217827	1.396486181	0.00795864	1.286019507	0.013531857
Cox7a1 12865	1.396447222	0.286365303	1.232044444	0.361067665
Stam2 56324	1.396372793	0.060984059	1.396372793	0.060984059
Csnk1g3 70425	1.396179709	0.061370183	1.503879065	0.028496796
Rpa3 68240	1.395835851	0.203729515	2.153265814	0.018641756
Impdh1 23917	1.395309044	0.111442794	1.24223798	0.21303372
Cdh3 12560	1.394942433	0.297823171	-1.090252881	0.446329168
Apoa1 11806	1.394648937	0.037961239	1.225104043	0.052879531
B9d2 232987	1.394146868	0.094119076	1.558774841	0.025809428
Cdkn2d 12581	1.394088241	0.230342023	2.03521418	0.07417965
Cdk2 12566	1.39382183	0.077326498	1.25865515	0.154654788
Nupr1 56312	1.393189784	0.161323783	1.393189784	0.161323783
Fam58b 69109	1.392999326	0.091927457	1.530547141	0.037502711
Nol8 70930	1.392850817	0.150070229	1.392850817	0.150070229
Rnf138 56515	1.392824627	0.093352185	1.629300964	0.034660211
Capn12 60594	1.392682411	0.205687103	1.622825377	0.064377159
Chchd2 14004	1.39256154	0.025297188	1.677036142	0.000484158
Rcc1 100088	1.392304812	0.047292497	1.262994302	0.096261802
Nupl1 71844	1.391259921	0.2569377	-1.006771463	0.494369797
Cln8 26889	1.391179193	0.020667258	1.596892232	0.000653363
Bak1 12018	1.390933519	0.015999639	1.613392352	5.77095E-05
Wbscr25 71304	1.390836727	0.302276732	-1.099650326	0.442407865
Lsm1 67207	1.390692335	0.110075999	1.368596306	0.092681323

Slc38a9 268706	1.38997561	0.109474772	1.38997561	0.109474772
Rab39 270160	1.389457302	0.347964429	1.195314368	0.428478238
C8b 110382	1.389212747	0.010236132	1.475877407	0.000912007
Ypel2 77864	1.388365271	0.003676366	1.390637432	0.000841385
Adat2 66757	1.388238576	0.181345074	1.38984008	0.068969996
Lor 16939	1.387953754	0.283363163	-1.301284902	0.17489906
1700048O20Rik 69430	1.387820893	0.27741802	1.291520216	0.23909431
Fam118b 109229	1.387655785	0.174046963	1.103801761	0.369355192
Snrpf 69878	1.38765416	0.07917831	1.561901914	0.011338939
Zfp870 240066	1.38759085	0.14107951	1.586080276	0.044078895
Pdgc 54635	1.387509488	0.253488483	1.846260801	0.142154439
Cyp39a1 56050	1.387463386	0.071748376	1.581985742	0.003009222
Slc7a5 20539	1.38745561	0.144422018	1.586985531	0.046471325
Nxn 18230	1.387373962	0.152935837	1.21367985	0.114308126
Hes1 15205	1.386884442	0.157067296	1.39969936	0.132215489
Nrm 106582	1.386773538	0.225385307	1.843380978	0.105461215
Mcts1 68995	1.386593619	0.033463805	1.487106863	0.022000739
Trmt61b 68789	1.386447987	0.19095783	1.58547861	0.094374134
Cntf 12803	1.386338358	0.352653129	-1.660939759	0.284397279
Zfp51 22709	1.385267798	0.313249393	1.26304666	0.371654839
Dll4 54485	1.384873276	0.225223922	1.070811292	0.430119125
Gna15 14676	1.384514192	0.334955267	1.641393273	0.301430455
Snapc1 75627	1.384440112	0.042704895	1.511700334	0.007923519
Gm15421 100042049	1.38407586	0.032547422	1.572779774	0.005193794
Ppp6c 67857	1.383094267	0.080272598	1.383094267	0.080272598
Zfp760 240034	1.382785229	0.299954047	4.115709757	0.002664025
Gm11437 628813	1.382645201	0.22068191	2.235204596	0.018149289
Tax1bp3 76281	1.382167234	0.027392619	1.265864139	0.056824502
Cbl 12402	1.38201033	0.317611868	-1.173406417	0.410469846
Agps 228061	1.381888331	0.133080263	1.719949628	0.036532663
2210020M01Rik 66528	1.381734986	0.349738086	1.633421429	0.334663434
C1qtnf5 235312	1.381590675	0.185860896	1.261694588	0.131634801
Tead1 21676	1.381298575	0.057169881	1.74054975	0.000290679
2700081O15Rik 108899	1.381222255	0.13626359	1.652318357	0.058424842
Rras2 66922	1.381136188	0.114030988	1.192572255	0.233371982
Lins 72635	1.380992818	0.030886011	1.302096666	0.064079561
Gm10345 100041269	1.380414419	0.144303921	1.115748346	0.317043865
Stmn1 16765	1.38039923	0.108781721	1.180896052	0.227095328
BC022687 217887	1.380106635	0.246798527	1.163916234	0.367030839
Ppp1r32 67752	1.379892085	0.321041159	2.780872515	0.111971221
Kdm5b 75605	1.378887892	0.05133566	1.378887892	0.05133566
1110002L01Rik 100043040	1.378760724	0.182458454	1.371440301	0.075250003
Strn3 94186	1.378259969	0.141972046	1.445370985	0.073289199
Rpl22l1 68028	1.377927016	0.140130954	1.104216321	0.312483984
Bub1b 12236	1.377619555	0.34084237	2.365584001	0.182575382
Dtx3 80904	1.377163739	0.053001586	1.490307489	0.034335657
Frat1 14296	1.376902785	0.043677314	1.376902785	0.043677314
Lpin2 64898	1.376372632	0.042781561	1.376372632	0.042781561
Rce1 19671	1.375437773	0.050157057	1.226954506	0.094901196
Ces1a 244595	1.375387163	0.339208367	-1.465641937	0.303997643
Oip5 70645	1.374683544	0.34444809	2.424107143	0.19229339
Fastkd2 75619	1.374478055	0.113839805	1.548876571	0.031160822
Fam195b 192173	1.373792622	0.061269609	1.221511895	0.122357919

Mug2 17837	1.373675111	0.062349509	1.473536144	0.046423225
Bola2 66162	1.373632874	0.128365393	1.171196441	0.263718737
Rpp38 227522	1.373495246	0.296209009	1.970377453	0.137455265
Sirt1 93759	1.37304183	0.208868785	2.181260198	0.010270298
Gm6194 620966	1.372782482	0.212912525	1.045797334	0.44794724
1110006O24Rik 66123	1.372646503	0.169786739	1.706462061	0.069085724
Cep72 74470	1.37227945	0.345541793	2.458544324	0.189381453
Amica1 270152	1.372261549	0.260361294	2.242442651	0.060952075
Arhgef4 226970	1.3719189	0.388976427	-2.76078	0.173296754
Gm11968 100042173	1.37055569	0.089817377	1.047981285	0.348758311
Ppif 105675	1.370498904	0.001087256	1.296603083	0.001487398
2610002J02Rik 67513	1.370081687	0.003162522	1.50955002	0.000148601
Setd7 73251	1.369667668	0.103516386	1.78930741	0.005806303
Hspg2 15530	1.369091069	0.115236576	1.237320369	0.106688412
Sgk1 20393	1.368740089	0.116506252	1.198916739	0.232339128
Pigp 56176	1.36856045	0.047074824	1.211036601	0.076176391
Prkg1 19091	1.367654286	0.375827874	4.57358	0.173296754
Zfp655 72611	1.366713295	0.108992665	1.552703244	0.019793067
Rabggtb 19352	1.36551309	0.006003011	1.36551309	0.006003011
Gar1 68147	1.364703102	0.088266085	1.214645462	0.179582409
Brd9 105246	1.363442044	0.138481541	1.173116554	0.275151951
Lsm3 67678	1.363085051	0.187959287	2.194928092	0.003381248
Spon1 233744	1.362859078	0.303925207	1.861784853	0.19447366
3110009E18Rik 73103	1.362236821	0.315219873	-1.114180589	0.43641851
Wscd1 216881	1.36208651	0.204346412	-1.113823797	0.340409323
Cds1 74596	1.361541512	0.362279629	8.011083333	0.041592481
Haus2 66296	1.361361311	0.1729494	2.045272545	0.003789986
Slc4a1 20533	1.361316811	0.339122912	1.263632904	0.384713168
Ssh3 245857	1.361238838	0.016160074	1.1672619	0.018511932
Gm13306 100039863	1.360369942	0.334686754	6.352862915	0.000716936
Twist1 22160	1.36026632	0.278835097	2.098213132	0.105693718
Ppp3cc 19057	1.359744087	0.194921436	1.7782093	0.065357324
Acer3 66190	1.35938856	0.118933104	1.536204102	0.02980746
Arl5c 217151	1.359254928	0.293639921	2.046415927	0.139427098
Nup133 234865	1.358906392	0.082597932	1.744125147	0.002709953
Med21 108098	1.358438724	0.127486467	1.358438724	0.127486467
Cyp4a14 13119	1.358373333	0.124091569	1.358373333	0.124091569
Slmo2 66390	1.357959876	0.064869786	1.361990676	0.012190592
Ccnj 240665	1.357841631	0.200888629	1.042322362	0.443035771
Rasgrp4 233046	1.357802696	0.274515725	1.208097625	0.315824161
Slc17a1 20504	1.357398964	0.035868766	1.257061371	0.073352575
Mex3d 237400	1.357115058	0.16746054	1.626939405	0.081329265
Wdr35 74682	1.356671943	0.143662469	1.159173624	0.288210463
Ppp1r8 100336	1.356576985	0.051705162	1.356576985	0.051705162
Ube2a 22209	1.355976249	0.057032568	1.355976249	0.057032568
Zmynd19 67187	1.355929409	0.178663829	1.607443583	0.099332768
Mmp17 23948	1.355878163	0.230302419	1.355878163	0.230302419
Plcb2 18796	1.355235885	0.246094923	1.355235885	0.246094923
Haus5 71909	1.354945519	0.284068213	1.470776545	0.201520183
Ap4b1 67489	1.353971813	0.09236122	1.342937918	0.04318066
Nsd1 18193	1.353744226	0.002038404	1.498701285	1.80703E-05
Atp6ap2 70495	1.353452434	0.090501124	1.312645316	0.055555904
Clasp2 76499	1.353302104	0.018118375	1.353302104	0.018118375

Rps8 20116	1.352460032	0.062510097	1.192936907	0.117890047
Lsm10 116748	1.352383842	0.158727739	1.109804991	0.338591136
Ccl24 56221	1.35237494	0.099669424	1.740396588	0.008892536
Epm2a 13853	1.352001307	0.353769561	-1.653158046	0.25567537
Rrm2 20135	1.351958619	0.126271718	1.579091685	0.054205982
Cmtm4 97487	1.351697007	0.08964865	1.150543132	0.173589202
Arfip1 99889	1.351467142	0.051793937	1.295390943	0.026251792
Rpl35a 57808	1.350614716	0.106042108	1.142648344	0.221787363
Tmem2 83921	1.350035066	0.079452328	1.47433744	0.007579514
Cryl1 68631	1.34970719	0.121235003	1.223046899	0.208527504
Cyp4a10 13117	1.349671228	0.150322252	1.202338051	0.232975001
Zxdb 668166	1.349602436	0.259379272	-1.230810399	0.281407107
Taf1b 21340	1.349564812	0.226767642	-1.113027338	0.363607062
Nup37 69736	1.349388556	0.268683165	1.918049114	0.117829423
Ctla2b 13025	1.349297006	0.250863234	1.343300747	0.287173677
Igf1 16000	1.34837827	0.011158889	1.256447305	0.015297132
Ablim3 319713	1.348361356	0.04200757	1.435966228	0.029287904
Ier5 15939	1.348054487	0.181787059	1.078706257	0.389961804
Klhl6 239743	1.347885869	0.226454843	1.610533264	0.079583931
DOH4S114 27528	1.34755902	0.113501965	1.697005168	0.009287699
Sike1 66641	1.347100087	0.067181105	1.184095221	0.127903943
Snrpg 68011	1.346234924	0.110903104	1.346234924	0.110903104
Fmr1nb 207854	1.346211852	0.404078801	3.53972	0.173296754
5830415F09Rik 74753	1.346102186	0.20350651	-1.01949463	0.475762024
Map1lc3a 66734	1.345464526	0.03361466	1.230986165	0.062323825
Dgkd 227333	1.345287995	0.027830615	1.345287995	0.027830615
Acot1 26897	1.345216581	0.050063144	1.451758519	0.029862112
Lamc1 226519	1.343987228	0.043203993	1.343987228	0.043203993
Sema7a 20361	1.342639675	0.362599296	1.282144901	0.403677687
Msl3l2 73390	1.34257337	0.272332789	1.597511955	0.146144483
Serpine2 20720	1.34206431	0.147519292	1.671389326	0.035744342
Gpc1 14733	1.341878663	0.196080381	1.785269264	0.049676939
Il17rb 50905	1.341766899	0.076140971	1.240977736	0.140021744
Armc2 213402	1.341387134	0.286454329	1.341387134	0.286454329
E130112N10Rik 78668	1.341040048	0.321737386	1.341040048	0.321737386
Klhdcc2 69554	1.340956481	0.104326306	1.340956481	0.104326306
Gm826 329554	1.340547393	0.239556218	1.61395093	0.156256445
1810063B07Rik 67509	1.34001544	0.069206153	1.168478163	0.123569811
Tcea1 21399	1.339968571	0.040213209	1.188625758	0.041440837
H2afx 15270	1.339826968	0.114004269	1.339826968	0.114004269
B9d1 27078	1.339802596	0.306365222	2.156277011	0.125131424
Zswim1 71971	1.339625858	0.147814668	1.808545507	0.003710229
Arhgap5 11855	1.339556029	0.31732865	2.936487147	0.047820025
BC067068 216292	1.33940019	0.27372647	1.870879121	0.128139235
1700086O06Rik 73516	1.339247466	0.18679342	1.72502717	0.055167574
Kdelc1 72050	1.338917752	0.093180005	1.068052166	0.343075477
Ap4s1 11782	1.338642836	0.09243582	1.2679656	0.043226124
4930506M07Rik 71653	1.338635436	0.012281539	1.240710275	0.022410113
Trim47 217333	1.338250726	0.1815359	-1.068079385	0.337023301
Helb 117599	1.338030552	0.131218934	1.338030552	0.131218934
Cdc37l1 67072	1.337972465	0.056676698	1.693733558	8.33092E-05
0610009B22Rik 66050	1.337883213	0.063180472	1.523116098	0.015226865
Rps9 76846	1.337873195	0.12253146	1.113944867	0.26419511

Hspbp1 66667	1.337854815	0.144333551	1.025787862	0.451695278
Cyp2c68 433247	1.33751581	0.008408766	1.383368421	0.001548213
Fmo4 226564	1.33717119	0.165993534	1.600935374	0.011715063
Zbtb6 241322	1.336857469	0.138675646	1.336857469	0.138675646
Zw10 26951	1.336116258	0.121783719	1.116771799	0.262279617
Arf2 11841	1.336086201	0.078185902	1.195474776	0.044513196
Procr 19124	1.335826314	0.20166961	1.335826314	0.20166961
Zfp738 408068	1.3354431	0.223458335	1.548137552	0.091222488
Exosc8 69639	1.334946265	0.105226714	1.216425959	0.187864301
Accs 329470	1.334775682	0.197431426	1.531053017	0.084592589
Aimp1 13722	1.334624786	0.036461564	1.334624786	0.036461564
Gabarapl2 93739	1.334236654	7.15116E-05	1.350810571	0.000023648
1500011B03Rik 66236	1.334172098	0.167320985	1.348772634	0.124779713
Fkbp10 14230	1.334016502	0.212519748	1.334016502	0.212519748
Sox7 20680	1.333997301	0.08599546	1.452565238	0.031803714
Eps15 13858	1.333908471	0.055124034	1.420383388	0.03966891
H2-Ab1 14961	1.333889699	0.172403395	1.022444016	0.438759934
Pank2 74450	1.333738129	0.058511229	1.647611219	0.000241989
Prkch 18755	1.333354483	0.221979179	1.033479292	0.459778453
Glrx5 73046	1.333243688	0.01763666	1.42610756	0.00012261
Ccdc162 75973	1.333097717	0.136939679	1.34094776	0.17750103
Ints8 72656	1.332954834	0.263341591	1.009863622	0.49115838
Rab12 19328	1.332450609	0.071585078	1.395094898	0.022748765
Snx10 71982	1.332419741	0.116271159	1.518214503	0.015702194
Mrpl23 19935	1.332336435	0.163798245	1.242137076	0.100200188
Cabyr 71132	1.33208454	0.187142612	1.33208454	0.187142612
Tmem48 72787	1.331939504	0.302373151	1.331939504	0.302373151
Fam18a 383103	1.331768658	0.289287336	2.400344436	0.044420576
Loh12cr1 67774	1.331323908	0.096227085	1.561815385	0.022192538
Tmem41a 66664	1.331304236	0.064076371	1.331304236	0.064076371
Peg10 170676	1.330249549	0.234777422	1.116683499	0.378914291
Tmem87b 72477	1.330228958	0.084285913	1.724318323	0.000254854
Cdc73 214498	1.329716659	0.115059444	1.551359636	0.038907117
Rrs1 59014	1.329664745	0.04256029	1.199986926	0.073230531
Ubn1 170644	1.329561277	0.009707352	1.245522671	0.013061471
Patz1 56218	1.329225233	0.155972096	1.528816781	0.085972628
Urb1 207932	1.328915205	0.272972101	-1.167589566	0.294506566
Sdad1 231452	1.32887523	0.100736997	1.32887523	0.100736997
Pkdcc 106522	1.328624036	0.013066653	1.5073956	0.000530167
Tsga10 211484	1.328364436	0.379094624	1.621721864	0.33676256
lsyna1 71780	1.328276577	0.091439756	1.721312433	0.001368978
Pdss1 56075	1.328049201	0.307259316	-1.412454118	0.223939638
Lass6 241447	1.328024932	0.263080526	1.059609134	0.450477882
Ptgrfr 19220	1.327846269	0.36327268	1.016451995	0.491391961
Susd2 71733	1.327810305	0.225188551	1.987120046	0.017774769
Slc30a4 22785	1.327628073	0.243004911	1.327628073	0.243004911
Clpx 270166	1.327513056	0.076178613	1.236125909	0.138300966
Rnf215 71673	1.327127914	0.022161217	1.482897728	0.001393208
Ubac1 98766	1.326069157	0.043848475	1.207077288	0.083514526
Bcl10 12042	1.32598021	0.047204038	1.226498156	0.096638185
Ube2u 381534	1.325855274	0.212593412	1.474594225	0.096296417
Mipol1 73490	1.325633367	0.349009283	-1.605913973	0.215079121
Nsl1 381318	1.325600743	0.300561326	2.030178782	0.124330777

Kdm1a 99982	1.325298047	0.029425946	1.340322029	0.007981237
Slc2a6 227659	1.325273224	0.326824593	1.325273224	0.326824593
Esrp1 207920	1.325150865	0.366877839	-1.417117702	0.354892428
201011101Rik 72061	1.324763504	0.092464269	1.138181617	0.182795256
Fert2 14158	1.324474003	0.266031123	2.092427303	0.050130648
Phf5a 68479	1.324278003	0.03819952	1.114579811	0.118531704
Nnmt 18113	1.324146344	0.101303156	1.047024691	0.381540861
Lsm14a 67070	1.323658714	0.105727747	1.519166059	0.038802023
Rpl9 20005	1.323515939	0.10576529	1.147859693	0.221911867
Tinagl1 94242	1.3234238	0.020527821	1.373069792	0.013876022
Pigw 70325	1.323230314	0.172085626	1.323230314	0.172085626
Nova2 384569	1.322981809	0.246825965	1.199536828	0.164929423
Cdyl 12593	1.321977596	0.308733017	1.654810424	0.176968877
Gm6222 621381	1.321725939	0.088922914	1.352105305	0.021117256
Rbm45 241490	1.321582888	0.15563099	1.142853546	0.201810487
Med7 66213	1.32150484	0.11282826	1.716838796	0.004487871
Gtpbp10 207704	1.32145793	0.141956782	1.32145793	0.141956782
Serpina3k 20714	1.32125328	0.155726265	1.805170594	0.005075358
Birc5 11799	1.321204839	0.199866337	-1.054521738	0.421071723
Rasa4 54153	1.320993595	0.262140185	-1.001173652	0.49887128
Nudcd1 67429	1.320643163	0.24029007	1.320643163	0.24029007
Arl2bp 107566	1.319983224	0.086201963	1.077139749	0.31529962
AI597468 103266	1.319876118	0.262515653	1.193406236	0.338996245
Sdr9c7 70061	1.319534038	0.027517549	1.243826162	0.057345173
Nfil3 18030	1.319513436	0.056461348	1.22276576	0.111325988
Bnip3 12176	1.319475579	0.017156073	1.417204844	0.000901685
Mat1a 11720	1.319336024	0.091816062	1.410549083	0.069501786
Nt5dc2 70021	1.318831704	0.167091749	1.230282473	0.14303055
Cd2 12481	1.318559409	0.280251274	1.286487709	0.303166733
Fam76b 72826	1.318395245	0.239972111	1.153688785	0.368542004
Snrnp48 67797	1.318238672	0.079464728	1.447831937	0.017808006
Plscr1 22038	1.317953812	0.158691399	1.165868882	0.274566156
Rasl10b 276952	1.317796154	0.22594826	2.007147433	0.011562315
Lmbrd2 320506	1.317025714	0.413546139	1	#DIV/0!
Dusp1 19252	1.316840875	0.116430618	1.759838203	0.000892811
Orc2 18393	1.316289001	0.137734192	1.316289001	0.137734192
Mical3 194401	1.315952104	0.121809512	1.315952104	0.121809512
Snrpe 20643	1.315892847	0.096202725	1.180664841	0.1871235
Surf6 20935	1.315817875	0.07180487	1.315817875	0.07180487
Usp42 76800	1.315767833	0.302423474	1.51733978	0.154110183
AU019823 270156	1.314945574	0.09904878	1.177226094	0.201026674
Hsbp1l1 66255	1.314884361	0.145716093	1.445638676	0.05068447
Scube1 64706	1.314429009	0.34207906	-1.412498427	0.282553547
Cps1 227231	1.313938251	0.224406693	1.627366723	0.110611638
Ubxn7 224111	1.313740591	0.092348204	1.389015362	0.003732769
Mbnl2 105559	1.313307469	0.132632986	1.410105756	0.039955139
Col16a1 107581	1.312807881	0.101413835	1.498142595	0.005545439
Slc22a3 20519	1.312772605	0.213019308	-1.08143516	0.376620663
Rlf 109263	1.312748899	0.194550914	1.851970532	0.020295597
Eif2b4 13667	1.312612405	0.01220745	1.36576626	0.005983813
Slc25a22 68267	1.312034606	0.06187691	1.312034606	0.06187691
H3f3a 15078	1.311988626	0.00073643	1.31261444	0.000255742
Gstp2 14869	1.311383903	0.259325007	1.992257008	0.047176275

Il11ra1 16157	1.311289683	0.062890641	1.151451901	0.09325275
Map3k5 26408	1.311227608	0.036637781	1.40852425	0.003965919
Nop58 55989	1.311024479	0.166070322	1.19470213	0.26038195
Ythdf2 213541	1.310672715	0.005857494	1.399373327	0.000990158
Dsc2 13506	1.309823883	0.126301383	1.286913217	0.049619188
Xrcc2 57434	1.309774895	0.311106927	-1.096428588	0.417307835
Npm3-ps1 108176	1.309760356	0.118310478	1.485768698	0.053007316
Sarm1 237868	1.309578571	0.303473865	1.309578571	0.303473865
Msln 56047	1.309578571	0.303473865	1.309578571	0.303473865
Celf4 108013	1.309477819	0.388102049	2.327685805	0.199681503
R74862 97423	1.30933296	0.105839337	1.496359664	0.037534667
Jrk 16469	1.309165646	0.204488037	1.095259498	0.370001762
Suv420h2 232811	1.309091816	0.006007346	1.223903313	0.002321666
Pi4k2b 67073	1.309041294	0.187253353	1.516633707	0.107921726
Jund 16478	1.308766777	0.130441884	1.015336965	0.463975821
Ccng2 12452	1.308322813	0.169466721	1.099848205	0.34898321
Sc1t1 67161	1.308170015	0.248322748	1.499685166	0.139667529
Slc36a4 234967	1.308068514	0.369438342	1.487826752	0.329104443
Rps14 20044	1.307978789	0.155089801	1.066101339	0.355642106
Ugt1a9 394434	1.307610884	0.146922805	1.009297939	0.480239337
Wnt5a 22418	1.307572893	0.237606545	-1.006281101	0.491913716
Sms 20603	1.307393534	0.129802487	1.307393534	0.129802487
Atg16l2 73683	1.307390964	0.181569272	1.693303974	0.031489145
Mapre1 13589	1.30661037	0.017557078	1.388840008	0.007744322
Dtwd2 68857	1.306479311	0.249161664	1.056538931	0.444698072
Kpna3 16648	1.306285693	0.136538455	1.14498485	0.273063259
Pcgf2 22658	1.306182186	0.067437402	1.162751209	0.12896825
Tmem229b 268567	1.306152991	0.259888614	1.761317976	0.105510624
Hdac2 15182	1.305885187	0.022629627	1.305885187	0.022629627
Lrrk2 66725	1.305735556	0.386700135	9.793016667	0.046113179
Ttpa 50500	1.305565496	0.001004642	1.346746191	0.000715902
Gm10012 100043160	1.30517788	0.100299915	1.30517788	0.100299915
Pitpnm1 18739	1.305034219	0.134400637	1.154045034	0.250983365
Nkg7 72310	1.304936512	0.245681173	-1.020905539	0.474007924
Twistnb 28071	1.304799939	0.168501732	-1.045688966	0.404587289
Hspa12b 72630	1.304487883	0.267306189	-1.041970602	0.456531367
Arnt 11865	1.304312481	0.113017713	1.468429271	0.00222741
Ralb 64143	1.303803705	0.093573919	1.138954727	0.191933326
Rps28 54127	1.303757119	0.133450255	1.11930878	0.282724936
Zfp773 76373	1.303751035	0.30049496	1.303751035	0.30049496
Phyhip 70911	1.303687472	0.407978939	1	#DIV/0!
1810041L15Rik 72301	1.303687472	0.407978939	1	#DIV/0!
Ddx43 100048658	1.303687472	0.407978939	1	#DIV/0!
Rtkn 20166	1.303034302	0.128451058	1.303034302	0.128451058
Il4i1 14204	1.302437028	0.346195753	2.653032424	0.103806698
Csrp3 13009	1.302313659	0.125577048	1.376148653	0.108315994
Hap1 15114	1.302226876	0.129178064	1.302226876	0.129178064
Mcl1 17210	1.301780064	0.026407441	1.201322094	0.042046542
Mgat5 107895	1.301425722	0.336198347	1.959518702	0.182816276
1110017F19Rik 68528	1.301388731	0.329558967	1.225643903	0.36366942
Krtcap3 69815	1.301122059	0.29147	1.382105023	0.227181499
Gm13253 664903	1.300718773	0.171014209	1.208828458	0.146615196
Gspt2 14853	1.300691639	0.317752496	1.300691639	0.317752496

Acsl4 50790	1.300679663	0.104056308	1.18128699	0.194254506
Atp7a 11977	1.300564975	0.126540605	1.73915065	0.001533265
Gpr162 14788	1.300485388	0.279143885	1.363385568	0.207085746
Lrp6 16974	1.300442754	0.039087206	1.481612964	0.001245551
Rpl10a 19896	1.300433953	0.097604545	1.17625131	0.195908269
Zfp945 240041	1.300226889	0.108575121	1.428428166	0.03494535
Nob1 67619	1.300128819	0.063138616	1.381837151	0.029800875
Bax 12028	1.299808592	0.084768013	1.299808592	0.084768013
D1Ert622e 52392	1.299771578	0.205782693	1.817992916	0.018256542
Gmps 229363	1.299729997	0.017385593	1.371347744	0.00413943
Trp53inp1 60599	1.299601442	0.056903687	1.597075844	0.000163372
Wbscr27 79565	1.299473027	0.011518323	1.245244279	0.002024828
Nuak1 77976	1.299449497	0.270676545	1.299449497	0.270676545
Tbxa2r 21390	1.299076529	0.215684564	1.698501371	0.058561073
Syt14 27359	1.299002048	0.353766015	2.384759398	0.152225637
Ctse 13034	1.298609387	0.032812268	1.189019495	0.051362471
Egfr 13649	1.298530526	0.075916422	1.285730312	0.046835409
Pla2g12a 66350	1.298159264	0.024405851	1.298159264	0.024405851
Lmnb1 16906	1.298086872	0.146644951	1.298086872	0.146644951
Lrp12 239393	1.298057362	0.301449041	1.151040157	0.376503807
Dram1 71712	1.297796403	0.359714671	2.714109596	0.129040948
Hilpda 69573	1.29744457	0.204667867	1.160950271	0.174992222
Zfp322a 218100	1.297327839	0.198392599	1.050009659	0.423312355
Dph5 69740	1.297278659	0.127592199	1.477920335	0.054843354
Slamf9 98365	1.29683233	0.325374571	1.29683233	0.325374571
Tmem161b 72745	1.296741569	0.314291111	-1.31535848	0.209942938
Polr2l 66491	1.296596074	0.087304017	1.169188178	0.179001915
Rps24 20088	1.29653728	0.212179659	1.001531293	0.497303756
Hoxa4 15401	1.29651352	0.28569814	1.543052249	0.147966979
Kcnc6 52150	1.296226506	0.264717584	-1.025748713	0.472639823
Asb2 65256	1.296031159	0.235161176	1.825883773	0.006194697
Qtrt1 60507	1.295998223	0.133538899	1.46676914	0.064572029
Dcaf12 68970	1.295846812	0.046005225	1.295846812	0.046005225
5930416l19Rik 72440	1.295674305	0.061647724	1.173078654	0.125941386
Ankrd33b 67434	1.2954062	0.123262911	1.450924916	0.02628547
Ttc23 67009	1.295403056	0.013146872	1.286446918	0.004625176
Ptbp2 56195	1.295147939	0.33462305	1.295147939	0.33462305
Rnf214 235315	1.295014824	0.038458357	1.295014824	0.038458357
Wfdc15b 192201	1.294634254	0.390120286	1.633421429	0.334663434
Scml4 268297	1.294625137	0.361359982	2.596338175	0.142234751
Cpeb2 231207	1.2945435	0.246237371	1.708312514	0.055688574
Sla2 77799	1.2944655	0.354060314	1.716508186	0.234913993
Slc17a8 216227	1.294452852	0.240537901	1.778380364	0.058923634
Utp11l 67205	1.29432847	0.131592169	1.568334176	0.019766562
Rpl37a 19981	1.294285854	0.21008009	1.151651667	0.197164371
Hhat 226861	1.294158081	0.318403107	1.601299082	0.165097903
Cd9 12527	1.293793098	0.185616347	1.701754199	0.020512222
Cnnm2 94219	1.293585153	0.117618409	1.128403071	0.247791745
Sco1 52892	1.293493014	0.058613217	1.250239357	0.097986723
Ddx52 78394	1.292670181	0.137622113	1.292670181	0.137622113
Myom1 17929	1.292436155	0.17926307	-1.024729294	0.453497657
Dmxl2 235380	1.292268761	0.228126255	1.729034679	0.056108548
Slc19a1 20509	1.291957851	0.018687497	1.291957851	0.018687497

Tnpo1 238799	1.291598191	0.241062655	1.481447118	0.098077756
Hmox1 15368	1.291425314	0.180548714	1.29744383	0.134372834
Rhbdf2 217344	1.291278176	0.030420868	1.11096233	0.089140707
Uqcrh 66576	1.291176578	0.121881842	1.103156411	0.262495948
Ip6k2 76500	1.291071243	0.036904147	1.379628034	0.007912898
Rad1 19355	1.29101872	0.184849115	1.280311884	0.156845426
Llg1 16897	1.290795171	0.162641948	1.045200301	0.38588014
Amy1 11722	1.29054254	0.028500358	1.174319335	0.04607237
Rnf219 72486	1.290027758	0.305396813	1.670431061	0.148097804
Smc2 14211	1.289931855	0.359863659	-1.185670432	0.415689945
Pigv 230801	1.28953103	0.112908708	1.510808273	0.02269094
Zcrb1 67197	1.289439653	0.11019962	1.289439653	0.11019962
Psm9 67151	1.289403346	0.024280808	1.289403346	0.024280808
Oraov1 72284	1.288904346	0.072343868	1.331785367	0.02039887
Mudeng 74385	1.288825606	0.299189023	1.809905415	0.136149862
Ddx3x 13205	1.288814754	0.127557692	1.474223726	0.015287814
Terf2 21750	1.288565419	0.046015673	1.184602268	0.103145943
Rab21 216344	1.288440697	0.06520757	1.080797491	0.243316103
Plin4 57435	1.288330584	0.01832248	1.201051933	0.026623928
Sh3gl1 20405	1.287897598	0.004639181	1.294457707	0.001541191
Grhl1 195733	1.287650334	0.355901861	-1.123925492	0.440140822
Tuba1a 22142	1.28757012	0.237870216	1.633372865	0.099194172
Hsp90aa1 15519	1.287556334	0.060118096	1.261890023	0.057279333
Ryk 20187	1.28719371	0.007751035	1.153108268	0.00433372
Gtf2h1 14884	1.287007318	0.049142878	1.537809388	0.00013957
F3 14066	1.286804593	0.282694682	1.081664273	0.423683423
4931406P16Rik 233103	1.286632905	0.139930454	1.702802514	0.003574371
Sertad1 55942	1.2861694	0.213578138	-1.11879517	0.225970574
Kctd3 226823	1.28612668	0.118528782	1.28612668	0.118528782
Fkbp5 14229	1.285516276	0.140557687	1.285516276	0.140557687
Rpp40 208366	1.285442964	0.099928066	1.341285012	0.090211124
Pigx 72084	1.285412196	0.097177165	1.285412196	0.097177165
St6galnac2 20446	1.285392311	0.333613732	1.426600316	0.296746291
Rplp2 67186	1.285391623	0.215661171	1.102929402	0.268775755
Taf13 99730	1.285321685	0.044537329	1.263008791	0.037927078
Gm4794 215895	1.285239263	0.355460197	1.612368991	0.26211305
Usp27x 54651	1.285109295	0.179754251	1.480663267	0.094752878
Mrpl40 18100	1.284947273	0.005787461	1.326518909	0.004684033
Ehd2 259300	1.284730092	0.142790782	1.284730092	0.142790782
Armc8 74125	1.284642098	0.074773353	1.443424593	0.018226996
Cd34 12490	1.283925672	0.333547786	1.333920548	0.271050335
Cyp17a1 13074	1.28381985	0.208748069	1.00340356	0.493521247
Bace1 23821	1.283636434	0.174587316	1.560680393	0.050145655
Dynlt1b 21648	1.283328158	0.201745811	1.32141306	0.099853631
Apoo 68316	1.283266495	0.223300697	1.046745975	0.439090039
Calhm2 72691	1.283060828	0.291239856	-1.279452049	0.246895161
Uchl3 50933	1.28290389	0.143070555	1.634817265	0.010106274
4732471D19Rik 319719	1.2828841	0.291350207	-1.179361859	0.292541716
Tbc1d8 54610	1.282752601	0.127095558	1.028932166	0.422228209
2310008H09Rik 66356	1.282580049	0.000312447	1.22891572	0.000141346
Tmem203 227615	1.282518519	0.008016988	1.194436129	0.008124054
Tbl2 27368	1.282470152	0.012009457	1.22323835	0.011160277
Leprel4 66180	1.282436085	0.267349622	1.966835104	0.031157641

Epsti1 108670	1.282377439	0.176279145	1.714252037	0.013654318
Wdr77 70465	1.282239797	0.032011077	1.406717806	0.003532002
Fam180a 208164	1.28220422	0.318987859	1.078297343	0.440841645
Esf1 66580	1.282058498	0.214010811	1.881937229	0.006225763
Ihh 16147	1.281817362	0.265211809	1.281817362	0.265211809
Fbxo17 50760	1.281711601	0.294668054	1.525330155	0.155435693
Atp6v1g1 66290	1.281638801	0.046739449	1.336700026	0.010991427
Camsap1 227634	1.281605029	0.101044509	1.390314674	0.01553566
Cpt1b 12895	1.281357931	0.084285966	1.077126492	0.295076115
Lat 16797	1.280907509	0.293708485	1.635050281	0.17266186
Cyp4a31 666168	1.280414533	0.187291619	1.13295043	0.314773395
LOC106740 106740	1.280373388	0.356012866	1.964827528	0.202463383
Map4k4 26921	1.279967804	0.164945931	1.668794333	0.005033898
Med12l 329650	1.279625103	0.360844391	-1.070040211	0.449808949
Rnpc3 67225	1.279454384	0.23514239	1.902110763	0.020343554
Rerg 232441	1.279357869	0.227683703	1.19422052	0.135741673
Uaca 72565	1.279206963	0.131266153	1.131173416	0.266153431
E2f8 108961	1.27918947	0.112022676	1.13122635	0.233843583
Hic1 15248	1.279014449	0.286870241	1.26911991	0.284628489
Hsf2 15500	1.278664328	0.110048366	1.165705918	0.214030584
Mri1 67873	1.278598594	0.077827304	1.278598594	0.077827304
Zfp830 66983	1.2785636	0.021564867	1.326944029	0.003337026
Ccdc115 69668	1.277762219	0.021169963	1.282214351	0.009238137
Gmnn 57441	1.277592662	0.148825831	1.277592662	0.148825831
Epdr1 105298	1.277499476	0.361701497	3.041166332	0.075689291
Nudt16 75686	1.277348645	0.02906797	1.389585957	0.005472633
Idh3a 67834	1.277152445	0.137906311	1.595860269	0.008170057
Usp33 170822	1.277005632	0.098900606	1.496812282	0.01036499
Tmod1 21916	1.276805907	0.186579066	1.119481874	0.324328707
Rusc1 72296	1.276792943	0.103542422	1.424079618	0.014363489
Yy1 22632	1.276533327	0.280469378	-1.079012725	0.414661706
Anapc10 68999	1.276048879	0.26388262	1.069175846	0.434337871
D33005016Rik 414115	1.275998931	0.254775449	-1.047990959	0.434345656
Ccdc58 381045	1.275701924	0.039959212	1.36709544	0.00662747
Pgm1 66681	1.275641193	0.2877669	1.629854466	0.160052382
Rgs2 19735	1.275481234	0.125348805	1.299530416	0.074435692
Unc5b 107449	1.275357982	0.078074705	1.182278703	0.155432277
Trappc6a 67091	1.27507642	0.066613585	1.27507642	0.066613585
Gtf2h4 14885	1.275012314	0.039735641	1.380561161	0.012466469
Rpl13a 22121	1.274978556	0.205055614	1.012224795	0.476494282
Herpud1 64209	1.274931541	0.141020456	1.51074395	0.031972921
Plac8 231507	1.274885839	0.128290791	1.190158425	0.219210404
Srgn 19073	1.274750768	0.077960605	1.370066849	0.02729245
Dnajb1 81489	1.27465715	0.089117427	1.429574569	0.003107344
Micall2 231830	1.274366232	0.196411751	1.351895526	0.127286446
Cct8 12469	1.274141294	0.012628308	1.203573327	0.020060727
Cdc25a 12530	1.274133149	0.276954553	1.274133149	0.276954553
Cited4 56222	1.273832238	0.263159957	1.520254552	0.097756019
E330009J07Rik 243780	1.273324632	0.230992257	1.273324632	0.230992257
Ces1b 382044	1.27321326	0.142699229	-1.035427045	0.306942854
Ranbp9 56705	1.273134466	0.181628215	1.737184613	0.003753421
Rbm8a 60365	1.272714209	0.027396108	1.327332708	0.013860822
Rps12 20042	1.272298041	0.055208805	1.190204517	0.112441828

Sac3d1 66406	1.272204804	0.050710962	1.273049243	0.004934954
Arl16 70317	1.271741806	0.163820442	1.271741806	0.163820442
Sema3c 20348	1.271603616	0.414863585	-2.8	0.173296754
Rsl24d1 225215	1.271552861	0.056203784	1.172432061	0.113875697
Gstp1 14870	1.271354677	0.228660311	1.355342765	0.077752591
Lpin1 14245	1.270998847	0.257276139	1.193736368	0.256131255
Tomm34 67145	1.270969341	0.035584918	1.270969341	0.035584918
Al428936 233066	1.270648223	0.329591654	1.073204424	0.451406879
Rnf41 67588	1.270556237	0.092269985	1.132771389	0.190853416
Gm6484 624219	1.270555665	0.334717364	-1.62315939	0.043210847
Rbfox3 52897	1.270541601	0.273567053	1.020787432	0.460858458
Htra3 78558	1.270530537	0.198508936	1.262785654	0.111614711
St8sia1 20449	1.27049673	0.388481082	1.264185714	0.40907038
Dapk2 13143	1.270280682	0.104529301	1.40962116	0.01558745
Lingo1 235402	1.270173511	0.400672151	4.577104461	0.132622695
Sox12 20667	1.269739036	0.05088207	1.176140252	0.104006185
Plac9 211623	1.269345693	0.288131551	-1.178804432	0.255346841
Slc35f5 74150	1.269206089	0.059843105	1.244280518	0.026484847
2610002I17Rik 72341	1.269177094	0.259471335	1.100873314	0.354544757
Cldn1 12737	1.269144181	0.166765479	1.269144181	0.166765479
4932415G12Rik 67723	1.268730175	0.295597274	-1.022205596	0.480336809
1700094D03Rik 73545	1.268725017	0.319169413	-1.327083648	0.152383082
Tbc1d7 67046	1.268681199	0.082939107	1.51518745	0.004501555
Pum2 80913	1.268673299	0.04099643	1.346041229	0.003764333
Zfp369 170936	1.268640853	0.371855314	1.268640853	0.371855314
Bin1 30948	1.268566771	0.134254746	1.272308802	0.058355935
Adam33 110751	1.268414714	0.339416302	-1.252399805	0.336793742
Thg1l 66628	1.268237874	0.285371268	1.061665172	0.437870818
Bri3bp 76809	1.268192004	0.027186612	1.200025049	0.056952373
Rinl 320435	1.268127923	0.269499734	1.017289461	0.482093556
Akirin2 433693	1.268046746	0.024591756	1.199060471	0.051661147
Eif2b3 108067	1.267869318	0.215380452	-1.107908897	0.292979294
Hist2h2be 319190	1.267358307	0.241153855	1.039861831	0.45142649
Ccdc163 68394	1.267336621	0.259944077	2.020904544	0.013016348
Fam50b 108161	1.267208703	0.414822897	-7.703466667	0.044331703
Fgr 14191	1.267081816	0.220423381	1.515765937	0.032032161
Gm12166 100039624	1.266880331	0.288651989	1.062154148	0.43852334
Mgat2 217664	1.266838914	0.157549265	1.267734096	0.09378979
Ms4a4d 66607	1.266628587	0.18636661	1.266628587	0.18636661
Rnaseh2b 67153	1.266607527	0.21800673	1.294282978	0.150916351
Dnajc15 66148	1.266382767	0.1014847	1.266382767	0.1014847
Cage1 71213	1.265975449	0.35084738	1.265975449	0.35084738
Tas1r1 110326	1.265975449	0.35084738	1.265975449	0.35084738
Zfp560 434377	1.265937252	0.241100924	1.265937252	0.241100924
Lpar6 67168	1.265895964	0.107486549	1.444578996	0.026465671
Polb 18970	1.265750612	0.132003817	1.349907414	0.101097691
Slc13a5 237831	1.265463244	0.288160701	1.516168308	0.128180681
Sprn 212518	1.265445051	0.231422777	1.404412836	0.14034196
Rad9b 231724	1.265173454	0.230759763	1.582310324	0.085033782
Arhgap11a 228482	1.264880129	0.252657212	1.21513463	0.265243956
Nfkbil1 18038	1.264835183	0.280522112	-1.128067647	0.329804968
Mcart1 230125	1.264724312	0.076477187	1.280731601	0.04373857
1110007C09Rik 68480	1.264183719	0.073051068	1.177094144	0.141117734

Zfp511 69752	1.263987633	0.132664449	1.354639138	0.075626285
Rpl18 19899	1.263958369	0.197175567	1.189959809	0.178058253
Akap2 11641	1.263641191	0.037171126	1.263641191	0.037171126
Tmem139 109218	1.263565863	0.396012066	1.59986242	0.353323128
6330409N04Rik 66674	1.263464609	0.14546113	1.335235565	0.029657642
Hprt 15452	1.263439124	0.059066386	1.468669787	0.003271988
Plin5 66968	1.263306838	0.060810534	1.202470841	0.11658769
Prune2 353211	1.26328075	0.374045171	1.26328075	0.374045171
Zfp618 72701	1.26328075	0.374045171	1.26328075	0.374045171
Rgs11 50782	1.263086079	0.40305271	1	#DIV/0!
F630028O10Rik 100038363	1.263086079	0.40305271	1	#DIV/0!
Oaz3 53814	1.263086079	0.40305271	1	#DIV/0!
Fam19a1 320265	1.263086079	0.40305271	1	#DIV/0!
Gm3285 100041351	1.263086079	0.40305271	1	#DIV/0!
1810033B17Rik 69189	1.263086079	0.40305271	1	#DIV/0!
Mboat1 218121	1.263086079	0.40305271	1	#DIV/0!
A030009H04Rik 80515	1.263014841	0.386157635	-1.363516108	0.370712423
Tgfr2 21813	1.263010095	0.235555801	1.049345712	0.438140878
Bbip1 66360	1.262942118	0.086148389	1.388422766	0.011122374
Nup205 70699	1.262829896	0.289338624	2.00366706	0.034966747
Lcmt2 329504	1.262493736	0.082168963	1.381068546	0.012593806
Dnase2a 13423	1.262439179	0.15054663	1.282431634	0.096690824
B020018G12Rik 545388	1.262403994	0.126280298	1.395635595	0.032391857
Gm6762 627480	1.262074581	0.289043436	1.48831481	0.203074199
2210021J22Rik 72355	1.261775966	0.098648886	1.181586369	0.123474688
Flcn 216805	1.261703028	0.046866711	1.165503781	0.090995254
Pus7 78697	1.261135241	0.048214783	1.173962495	0.097721933
Mppe1 225651	1.26109192	0.147892885	-1.003909312	0.489677631
Filip1 70598	1.260297682	0.409958295	-3.967316667	0.09324139
4430402I18Rik 381218	1.259914203	0.293987773	1.067027507	0.435388417
Fh1 14194	1.259536076	0.081016275	1.279323087	0.037091131
5730455P16Rik 70591	1.259258205	0.152520768	1.557678019	0.009908643
2510009E07Rik 72190	1.259257782	0.109646755	1.219995357	0.071253745
Ptges3 56351	1.259186443	0.110545389	1.188040503	0.115549505
Vasp 22323	1.259099106	0.024659663	1.184577555	0.046266529
Tmco7 272538	1.259095266	0.129478084	1.156654866	0.23820214
Mtfmt 69606	1.258997758	0.144824639	1.432583494	0.015564548
1700020I14Rik 66602	1.258930963	0.074674412	1.240577443	0.032674346
Npm2 328440	1.258566919	0.409043451	4.37142	0.173296754
Birc2 11797	1.258154825	0.084132852	1.111986026	0.169876097
Fyn 14360	1.258091137	0.088065632	1.187295912	0.15513608
Soat1 20652	1.257942179	0.181218505	1.257942179	0.181218505
Anxa5 11747	1.257872577	0.071473909	1.182498728	0.051393185
Man1c1 230815	1.257746997	0.03011664	1.245480488	0.018686807
Ass1 11898	1.257648142	0.046960211	1.156243996	0.086263546
Mtrr 210009	1.257595185	0.047351307	1.141108333	0.065586948
Zfp14 243906	1.257328325	0.392927559	-2.303330578	0.124495049
Slc37a4 14385	1.25711406	0.052276391	1.366109503	0.003272164
Gm5643 434858	1.257079443	0.11878695	1.027076331	0.423133771
Gpsm2 76123	1.25701364	0.191037724	1.221727887	0.106256821
Vamp3 22319	1.256795201	0.120740057	1.224527394	0.167401304
Ei24 13663	1.256664413	0.007119934	1.313484772	0.000946715
Map3k6 53608	1.256521841	0.156217178	1.387298659	0.058918305

4930427A07Rik 104732	1.256355292	0.402929688	1.724477316	0.34172029
8430408G22Rik 213393	1.256057907	0.205935064	1.256057907	0.205935064
Prkcz 18762	1.255916852	0.121272106	1.357759039	0.076614303
Galnt6 207839	1.25584532	0.307006359	2.273540547	0.013912409
Hist1h1d 14957	1.255620669	0.367182345	1.255620669	0.367182345
Elov15 68801	1.255141233	0.223741957	1.145228295	0.281429585
Rps3a 20091	1.254539351	0.077434059	1.16570862	0.155344244
Alpl 11647	1.254472025	0.05848423	1.207932714	0.032156749
Foxm1 14235	1.254095304	0.365601524	2.159052936	0.162310568
Arhgap28 268970	1.254079719	0.378023984	1.369634198	0.361484993
Enpp6 320981	1.253923287	0.353046538	1.763945274	0.212162417
Cdc42ep5 58804	1.253911075	0.216771717	1.253911075	0.216771717
Prdm11 100042784	1.253880866	0.412051413	4.57358	0.173296754
Lsm11 72290	1.253820553	0.195974841	1.577867739	0.031393608
Msr3 320183	1.253803037	0.249934998	1.280838855	0.215819773
Notch4 18132	1.253634321	0.229035794	1.701802558	0.025275758
Htati2 53415	1.253614895	0.043687215	1.285795333	0.020108346
Gm6623 625785	1.25343601	0.214359498	1.437029975	0.071543027
Mfge8 17304	1.253034615	0.183052456	1.038463906	0.416027824
Irf4 16364	1.25300195	0.378270519	1.25300195	0.378270519
Hoxa1 15394	1.25300195	0.378270519	1.25300195	0.378270519
Gm7102 633057	1.25300195	0.378270519	1.25300195	0.378270519
Rac3 170758	1.2526589	0.303165447	1.495353096	0.150432088
Atp6v1e1 11973	1.252582855	0.01833258	1.199511278	0.039290397
Cltb 74325	1.252319965	0.060007903	1.16513953	0.122591397
Rps15a 267019	1.252200044	0.161667347	1.094117045	0.327499085
Itgb1bp1 16413	1.252004941	0.23753116	-1.140354543	0.103716268
B3gnt2 53625	1.251757477	0.184998633	1.251757477	0.184998633
F11r 16456	1.251566486	0.060334122	1.450305124	0.00232154
1600012F09Rik 67008	1.251513905	0.206006366	1.251513905	0.206006366
2810008M24Rik 75616	1.251338955	0.272283928	1.687520235	0.08316994
Pcmt1 18537	1.250660701	0.037377605	1.279601932	0.000668061
Zfand5 22682	1.25065477	0.145315409	1.25065477	0.145315409
Actr6 67019	1.250643246	0.275495842	1.547516592	0.146288143
1700040I03Rik 73327	1.250381284	0.096696328	1.174717661	0.178572879
Mesdc1 80889	1.250297827	0.199827889	1.111327604	0.282592645
Ddx10 77591	1.250231061	0.16750185	1.577719994	0.009288739
Got1 14718	1.250176388	0.156124231	1.084187569	0.329089499
Ppm1d 53892	1.249594015	0.233238958	1.249594015	0.233238958
Dpep1 13479	1.249430222	0.335030745	2.132131673	0.027709587
Atf4 11911	1.249319687	0.026679668	1.216877423	0.05290656
Espn 56226	1.249112559	0.285526175	1.580556004	0.145538939
Spata1 70951	1.248799418	0.368642454	-1.529725169	0.230937166
Arg1 11846	1.24859995	0.175867707	1.40968992	0.091419364
Orc4 26428	1.248578044	0.268066965	1.433338981	0.18757837
Obfc1 108689	1.2485057	0.25443861	1.008738461	0.48873456
Nop16 28126	1.248200753	0.030209259	1.107953769	0.098595922
Gm14085 381417	1.248142057	0.405483337	3.15	0.173296754
Kpna1 16646	1.247938474	0.174066291	1.2886688	0.109198174
Mbtd1 103537	1.247899593	0.100333637	1.182911649	0.110651864
Fam49b 223601	1.247853207	0.289680781	1.123595736	0.37538781
Arf5 11844	1.247560096	0.14151771	-1.020373449	0.406118137
Ssr2 66256	1.247528543	0.015222938	1.249551884	0.005506476

Ncoa4 27057	1.247361263	0.198703724	1.645952665	0.015356014
Hsph1 15505	1.247344359	0.144752508	1.083095397	0.311967479
Scpep1 74617	1.247092563	0.007136894	1.202599171	0.015850126
A130010J15Rik 319266	1.247076886	0.18673329	1.440639246	0.082795565
Mrpl47 74600	1.247074245	0.066162826	1.368588795	0.002331176
Lgmn 19141	1.24674991	0.02860161	1.209646999	0.055601554
Pdlim4 30794	1.246678697	0.195383777	1.410231791	0.063767778
C6 12274	1.246655011	0.114607779	1.514180507	0.003908266
Necab2 117148	1.246573333	0.408482923	1	#DIV/0!
Pcdhb10 93881	1.246573333	0.408482923	1	#DIV/0!
Rab37 58222	1.246573333	0.408482923	1	#DIV/0!
Rnf180 71816	1.246573333	0.408482923	1	#DIV/0!
Pde3a 54611	1.246573333	0.408482923	1	#DIV/0!
Ttll7 70892	1.246573333	0.408482923	1	#DIV/0!
Ets2 23872	1.246274143	0.041952771	1.103412587	0.143590551
Hsp90ab1 15516	1.246110697	0.001941279	1.290250042	0.000226811
Itgb3 16416	1.246062697	0.105389941	1.312560339	0.007627088
Mrc2 17534	1.246037234	0.166565294	1.268222522	0.099386432
Dnalc4 54152	1.246007038	0.123331004	1.342379964	0.055421474
Fras1 231470	1.245628048	0.362016075	-1.621128921	0.098811758
Rftn1 76438	1.245570675	0.261270473	1.245570675	0.261270473
Rbm14 56275	1.245407074	0.156555328	1.119340728	0.295366458
Ddhd1 114874	1.245112447	0.147503479	1.416535489	0.022191437
Tdo2 56720	1.245040772	0.150505153	1.245040772	0.150505153
A1646023 192734	1.244761628	0.414449858	-4.016833333	0.093227909
Rbpms 19663	1.244664298	0.067992499	1.149352622	0.138941827
Ece2 107522	1.244430793	0.092293835	1.317501065	0.048618966
Akap5 238276	1.244374964	0.286120969	1.08257927	0.355311505
Cdk12 69131	1.244302288	0.098104268	1.365723386	0.014726678
2010320M18Rik 72093	1.244038056	0.195640567	1.063103343	0.380283445
Entpd2 12496	1.243939742	0.152866812	-1.004356106	0.486840102
Rpsa 16785	1.243759669	0.192426332	1.038157498	0.422828288
Il3ra 16188	1.243376492	0.27050209	1.11039165	0.288954643
Zfp775 243372	1.243269453	0.172906434	1.091226163	0.339696916
2310004I24Rik 66358	1.243251776	0.108160366	1.178309684	0.179266755
Zfp420 233058	1.242959609	0.380557468	1.22753158	0.397601243
Spryd3 223918	1.242861034	0.071339165	1.283270161	0.014371509
Hmgcr 15357	1.242631847	0.173487284	1.474083607	0.044176204
Ccdc69 52570	1.242537098	0.390935557	1.282144901	0.403677687
Wdr8 59002	1.242064718	0.093662581	1.147602125	0.180131365
S100g 12309	1.241893769	0.430664868	1	#DIV/0!
Tfb1m 224481	1.241553543	0.206741765	1.407356185	0.071388916
Fbxo38 107035	1.241519306	0.147019088	1.515290966	0.014623796
Pddc1 213350	1.241465508	0.120873858	1.023202097	0.431346556
Zfp120 104348	1.241273462	0.085182587	1.475761286	0.002898373
Dock10 210293	1.241240871	0.372441017	1.241240871	0.372441017
Prpf38a 230596	1.24092439	0.113106845	1.377671402	0.041871153
Sphk1 20698	1.240897654	0.305868421	1.299550627	0.265924373
Gna13 14674	1.240881237	0.147814094	1.405592619	0.056240282
Prkab2 108097	1.240865927	0.291336101	1.952643798	0.023205611
Ptpro 19277	1.240839005	0.40189544	-2.344287879	0.152822898
Rnf125 67664	1.240832974	0.337806013	1.240832974	0.337806013
F2r 14062	1.240579697	0.201173573	1.240579697	0.201173573

Serinc3 26943	1.240514247	0.115683263	1.506231624	0.003051223
Atad2 70472	1.240430697	0.319958488	1.383574291	0.223908429
Hemk1 69536	1.240328209	0.117787139	1.208223178	0.080568946
Atp2b1 67972	1.240148169	0.149601916	1.548601222	0.013256181
Serf1 20365	1.240074976	0.26515782	1.288796475	0.125091498
Kti12 100087	1.239997736	0.154886344	-1.020553863	0.442523895
Lrrfip2 71268	1.239934113	0.077620323	1.239934113	0.077620323
Cebpb 12608	1.239930067	0.133921517	-1.001290618	0.495814938
Hpx 15458	1.239850576	0.2491069	-1.1796517	0.162538551
Fam173b 68073	1.239533665	0.097496476	1.239533665	0.097496476
Rp2h 19889	1.239376818	0.276903859	1.922631262	0.021868703
Ttc21b 73668	1.239043673	0.30518822	1.880884332	0.057149499
Abt1 30946	1.239022222	0.045749774	1.077474791	0.161505301
Mlkl 74568	1.238628015	0.234934434	-1.006828369	0.488202072
Katna1 23924	1.238485674	0.094074124	1.116575241	0.195085296
Fnbp1 14269	1.238256252	0.158885368	1.089101893	0.323905019
Adcy2 210044	1.238235878	0.411260687	1	#DIV/0!
Grin2d 14814	1.238235878	0.411260687	1	#DIV/0!
Ttc16 338348	1.238235878	0.411260687	1	#DIV/0!
Lin9 72568	1.238235878	0.411260687	1	#DIV/0!
A3galt2 215493	1.238235878	0.411260687	1	#DIV/0!
Miox 56727	1.238235878	0.411260687	1	#DIV/0!
Gm11545 217122	1.238235878	0.411260687	1	#DIV/0!
Nqo1 18104	1.238166404	0.15630925	1.387140999	0.03288644
Tmem161a 234371	1.238011246	0.127613508	1.380760632	0.016080294
Gm962 381201	1.23791331	0.085568877	1.23791331	0.085568877
Thap3 69876	1.237861217	0.17271786	1.064346857	0.367063539
Rgag4 331474	1.237635384	0.386738804	-1.409431999	0.337288407
Rpusd1 106707	1.237456401	0.252169026	1.237456401	0.252169026
Fscn1 14086	1.237411461	0.330687796	-1.480136198	0.005923895
Lilrb4 14728	1.23725439	0.343179331	-1.251620294	0.315335931
B630005N14Rik 101148	1.237254375	0.14394426	1.237254375	0.14394426
Lsr 54135	1.236827424	0.009498502	1.236827424	0.009498502
Rps19 20085	1.236774843	0.256785912	1.134042877	0.268571781
Lemd2 224640	1.236741979	0.045071236	1.135490069	0.084622376
Irak3 73914	1.236514044	0.316082925	1.547447019	0.193296358
Fau 14109	1.23622059	0.263686985	1.090094471	0.335596859
1110003E01Rik 68552	1.235532542	0.031726946	1.300515378	0.008165501
Mamstr 74490	1.23528202	0.398935525	1.099838978	0.465920044
Capn11 268958	1.235231971	0.422929276	2.052716667	0.237969445
1700019E19Rik 76411	1.235196609	0.241388355	1.500814969	0.100169928
X99384 27355	1.234877593	0.156852273	1.061072597	0.348257354
Lage3 66192	1.234828092	0.115849451	1.163748035	0.203349517
Mff 75734	1.234742285	0.044849578	1.344011381	0.007319448
Dpp7 83768	1.234646134	0.109152768	1.11696512	0.22566249
Impa2 114663	1.234456827	0.171682944	1.202079658	0.180871164
Mocs3 69372	1.234425711	0.116863874	1.043457074	0.366377313
Msx1 17701	1.234312236	0.39403971	1.264185714	0.40907038
Mirg 100040724	1.234312236	0.39403971	1.264185714	0.40907038
4632415K11Rik 74347	1.234034772	0.155703554	1.404054934	0.013626303
Rabgef1 56715	1.23395276	0.040016718	1.087301534	0.142319067
Gnl3 30877	1.233677788	0.109632465	1.152167687	0.195638328
Fam98c 73833	1.233620521	0.182129733	1.101064747	0.322030222

2010321M09Rik 69882	1.233580196	0.175454851	1.393972045	0.037326022
Rbm28 68272	1.23354566	0.12778455	1.260173755	0.059256766
Prex1 277360	1.233525712	0.225452897	-1.125805269	0.244250795
Fanc1 67030	1.233418743	0.205421442	-1.095917294	0.254884599
Ibtk 108837	1.23291294	0.076178754	1.066913833	0.280652191
Igfbp3 16009	1.232788994	0.153639318	1.2261499	0.123248394
Gadd45g 23882	1.232584383	0.297312029	1.295629251	0.179000707
Dio3os 353504	1.232245712	0.282123983	-1.1974058	0.26524066
Nudt3 56409	1.232111955	0.055152869	1.067050675	0.189016213
Echdc1 52665	1.232060043	0.317267575	1.232060043	0.317267575
Gdf10 14560	1.231997689	0.204259157	1.570547274	0.005860611
Ptpn21 24000	1.231984987	0.099496666	1.145529594	0.19350821
2410042D21Rik 72425	1.231693457	0.198628886	1.241548415	0.124116808
Mcm8 66634	1.231647033	0.366652203	1.231647033	0.366652203
Prcp 72461	1.23144564	0.178267047	-1.055332712	0.34992086
Mat2b 108645	1.231247046	0.145534672	1.529975925	0.009679331
Traf4 22032	1.231153573	0.104846584	1.231153573	0.104846584
Pip5k1a 18720	1.230932779	0.153828425	1.350459262	0.054751798
Alyref2 56009	1.230795405	0.176772112	1.230795405	0.176772112
Dtx4 207521	1.230774135	0.040519546	1.331288545	0.00054998
Usp31 76179	1.230761948	0.218120052	1.446948387	0.094643831
Rnf2 19821	1.230739885	0.265308785	-1.180872703	0.24063583
Ncdn 26562	1.230656012	0.036712869	1.162558006	0.075841324
Osbpl1 106326	1.230328219	0.103929419	1.333236496	0.027399194
Hsd17b10 15108	1.230283309	0.104767804	1.230283309	0.104767804
Morc3 338467	1.230148994	0.287379469	1.869255342	0.015116773
Zfp551 619331	1.230118415	0.395639307	1.255130842	0.411829119
Tmem138 72982	1.230014725	0.258912482	1.230014725	0.258912482
Sesn1 140742	1.229918514	0.224305831	1.362934823	0.154458023
Frrs1 20321	1.229653605	0.172402559	1.055095008	0.364180435
Mmrn1 70945	1.229530649	0.411656108	-1.314264015	0.384854801
Prim1 19075	1.229344402	0.370227346	2.267741467	0.119830742
Ldlrap1 100017	1.229231479	0.010978828	1.229231479	0.010978828
Csrp2 13008	1.229192797	0.148344278	1.068437748	0.325430518
Brca2 12190	1.229153608	0.259760891	1.530077395	0.102087806
Srsf10 14105	1.229151345	0.210813326	1.37424992	0.130333991
Imm1p1 66541	1.228939161	0.231684056	1.038634072	0.441853674
Lrig3 320398	1.228896773	0.250492493	1.876614129	0.000506883
Cacnb4 12298	1.228816837	0.311523089	-1.048703811	0.454518603
Gpatch4 66614	1.228700552	0.063402456	1.288688701	0.031833136
Emg1 14791	1.228594983	0.046968706	1.305733111	0.009288872
Htra4 330723	1.228592204	0.334285843	1.403419362	0.270636016
Cyp3a16 13114	1.22841091	0.298705225	1.404923822	0.133637385
Rsl1d1 66409	1.228304574	0.040559833	1.095246192	0.152734283
Wipf2 68524	1.228276885	0.072742842	1.223533725	0.0160278
Por 18984	1.228261819	0.034157372	1.322688349	0.000431858
Abtb2 99382	1.22807992	0.23011168	1.002386288	0.495660621
Urb2 382038	1.227773732	0.056479599	1.321131159	0.018541856
Timm10 30059	1.227735464	0.122475485	1.227735464	0.122475485
Tanc1 66860	1.227482228	0.239349087	1.078586848	0.388272661
Hnrpd1 50926	1.2274221	0.118558213	1.201486912	0.079503794
Fkbp11 66120	1.227420443	0.26349274	1.517009631	0.111992211
9430023L20Rik 68118	1.227328564	0.073237389	1.227328564	0.073237389

Senp3 80886	1.227280733	0.061242565	1.28982787	0.003994328
Phf15 76901	1.227262079	0.123855474	1.491304909	0.004981094
Mfsd9 211798	1.227244101	0.372801358	-1.235101385	0.378186279
Igdcc4 56741	1.227196255	0.4106547	5.0331	0.093589634
Arhgap31 12549	1.227002882	0.283387019	1.774962896	0.03080661
Ggct 110175	1.226932924	0.163370616	-1.034775426	0.380435168
Slc35b3 108652	1.226803175	0.199086139	1.309589049	0.139673427
Tm2d3 68634	1.226802954	0.121552753	1.086676084	0.260570414
Tmem62 96957	1.226651695	0.137561976	1.320108364	0.087898623
Erh 13877	1.226207892	0.096462532	1.226207892	0.096462532
Zdhhc20 75965	1.226099523	0.238978831	1.649856489	0.029066617
Gm166 233899	1.225829035	0.255207474	1.767507984	0.013097747
Ap3s1 11777	1.225654866	0.104802974	1.361081863	0.029193174
Cldn14 56173	1.225454923	0.082077549	1.104361271	0.166963426
Siah1a 20437	1.225334079	0.192894886	1.049738552	0.390733749
Ppcs 106564	1.225275301	0.038496468	1.225275301	0.038496468
Heatr5b 320473	1.225273836	0.201989106	1.101711718	0.335409391
Rad54l2 81000	1.225221525	0.125446882	1.469017182	0.008375983
Cd6 12511	1.225166728	0.310573615	1.034981666	0.463856679
Pik3ca 18706	1.224965937	0.014079392	1.229282631	0.000763032
Zfp217 228913	1.22493675	0.233281067	1.066747265	0.407858138
Chst1 76969	1.224832554	0.360278229	1.224832554	0.360278229
Aebp2 11569	1.224721093	0.117798886	1.125605875	0.231083232
Agpat4 68262	1.224713133	0.179780382	-1.054399735	0.351223124
Slc1a4 55963	1.224584895	0.323848084	1.023382853	0.477402703
Rps23 66475	1.224432493	0.147697546	1.067776661	0.323625221
Ubr1 22222	1.224307344	0.20060009	1.488657482	0.039932439
C430048L16Rik 77604	1.224209164	0.342197393	1.024722699	0.479238561
Acacb 100705	1.22414651	0.116085172	1.24586343	0.035107462
Pppde1 78825	1.224133947	0.152863512	1.180556878	0.175244834
Zbtb42 382639	1.224133296	0.197507692	1.21468438	0.176657077
Ctnnd2 18163	1.224065209	0.39822924	1.264185714	0.40907038
Tspyl3 241732	1.224065209	0.39822924	1.264185714	0.40907038
Tmem70 70397	1.223906618	0.031548628	1.153898197	0.064370614
BC057022 433940	1.223840315	0.261059887	1.790179213	0.017708926
Mrps35 232536	1.223797644	0.080579886	1.141490415	0.162385187
Kctd13 233877	1.223474737	0.242190196	1.191118521	0.222580784
2310033P09Rik 67862	1.223456692	0.059523554	1.187933467	0.033806245
Fry 320365	1.223301199	0.287697336	1.570111689	0.117818801
Ankrd39 109346	1.222995156	0.146702101	1.222995156	0.146702101
Stap2 106766	1.222989385	0.109756283	1.467842619	0.003036261
Imp3 102462	1.222889581	0.176474659	1.054925205	0.378217226
Zbtb39 320080	1.222867378	0.138266347	1.163844634	0.11031339
Foxo3 56484	1.222750572	0.212624438	1.367486049	0.087305968
Zfp119a 104349	1.222594795	0.323834553	2.110464409	0.025267897
Riok1 71340	1.222371614	0.252252544	1.222371614	0.252252544
Slc4a1ap 20534	1.222281205	0.075816306	1.222281205	0.075816306
Atp6ap1 54411	1.222275752	0.030489512	1.14058563	0.044001078
Tor1b 30934	1.222185996	0.036363437	1.222185996	0.036363437
Senp6 215351	1.222162235	0.062010593	1.222162235	0.062010593
Tmem82 213989	1.222087297	0.109740843	1.192628325	0.059658886
Zfat 380993	1.221917967	0.246739421	1.157219087	0.212369489
H2-K2 630499	1.221884726	0.196531475	1.028852622	0.435680161

Mir703 735265	1.221620793	0.249937625	1.492063102	0.096949868
Msh6 17688	1.221583838	0.253548661	1.247362255	0.180324279
Fam60a 56306	1.221380988	0.355974744	-1.082536534	0.446768122
Tmem101 76547	1.221369904	0.041545061	1.143871078	0.084479339
Lancl2 71835	1.221331155	0.307658866	1.707075356	0.077162098
Tbc1d10b 68449	1.221279323	0.038453969	1.320303044	0.001663199
Mill2 243864	1.221277501	0.366813906	1.221277501	0.366813906
Snrpc 20630	1.221276309	0.01904377	1.268208573	0.007049078
Ints7 77065	1.221195115	0.261510741	1.049150826	0.440056545
Wdr34 71820	1.221022234	0.126529733	1.466843883	0.010393333
Ccdc9 243846	1.221013924	0.126993174	1.190588787	0.05720766
Cyp4a32 100040843	1.220900976	0.2512344	1.220900976	0.2512344
Eif4a1 13681	1.220752202	0.064357375	1.220752202	0.064357375
Hr 15460	1.220349321	0.272361237	1.220349321	0.272361237
Pir 69656	1.220175317	0.108180863	1.178828208	0.10953782
Zfp54 22712	1.220169015	0.354070268	1.031087153	0.476163505
Mir101a 387143	1.220147699	0.414699976	-1.700679995	0.182430754
Nup54 269113	1.220121696	0.225843689	1.220121696	0.225843689
Nudt18 213484	1.219936945	0.127823872	1.244199496	0.077210581
C80913 19777	1.219808045	0.002170678	1.29638768	0.000106286
Capn10 23830	1.219800468	0.02562144	1.219800468	0.02562144
Ms4a4b 60361	1.219703061	0.349045854	1.21984852	0.298035344
Fam189a1 70638	1.219459773	0.421562816	-4.016833333	0.093227909
Rbm4b 66704	1.219412875	0.138251397	1.19359346	0.123297909
Rps26 27370	1.219392274	0.155705464	1.067288404	0.335450497
Nfatc4 73181	1.219256692	0.24680322	1.568297552	0.011185266
Gm12657 667250	1.219188565	0.061418196	1.395952792	0.000776904
Zfp593 68040	1.219082432	0.280870789	1.219082432	0.280870789
Wnt4 22417	1.218916258	0.358995321	1.855601949	0.158101376
Ncapd2 68298	1.218806405	0.143699993	1.227483564	0.069520466
Tonsl 72749	1.218657482	0.365930983	1.24776777	0.281526487
Prmt5 27374	1.21852229	0.068524919	1.275514756	0.036284937
Ntrk1 18211	1.21841936	0.261540215	1.082269984	0.405036955
Meaf6 70088	1.218306603	0.202157695	1.572921704	0.00779145
Fut1 14343	1.218278833	0.345837949	-1.364963679	0.153711317
Rorc 19885	1.21824097	0.093511638	1.248377877	0.035596696
Ppan 235036	1.218227696	0.140737955	1.058988616	0.314536405
B430306N03Rik 320148	1.218116075	0.24322812	1.071271905	0.395656174
Slc6a8 102857	1.218012172	0.187324111	1.069728542	0.368315554
Hspa4l 18415	1.217952961	0.194474804	1.087096733	0.342011386
Ppp2r4 110854	1.217413959	0.065254886	1.217413959	0.065254886
Tmem151a 381199	1.217226937	0.374931673	1.900066507	0.186724779
Rpl36al 66483	1.217056067	0.185554802	1.059621383	0.379232034
Tmem86a 67893	1.217014308	0.111501285	1.36652892	0.02202378
Mrpl32 75398	1.21696544	0.072299303	1.194028758	0.030560736
Rplp1 56040	1.216828996	0.276880575	-1.229673216	0.109549678
Emp2 13731	1.216706356	0.171466925	1.26720676	0.062264322
Ehmt1 77683	1.216589868	0.139645261	1.250246185	0.054454764
Pole4 66979	1.21657568	0.127247055	1.21657568	0.127247055
3230401D17Rik 66680	1.216372144	0.066495337	1.330667802	0.011858921
Sgtb 218544	1.216123063	0.395496619	-1.469007782	0.317043871
Exoc2 66482	1.21590654	0.241764514	1.36295706	0.158471198
Cd52 23833	1.215733924	0.270609002	-1.075728431	0.369702517

Maz 17188	1.215705273	0.182903889	1.042820045	0.399842434
ltga2b 16399	1.215639669	0.248078628	-1.039986342	0.4209101
Dcaf6 74106	1.21556059	0.070929697	1.151840613	0.024765814
Ldhb 16832	1.215443089	0.21593327	1.375322291	0.117722364
Socs5 56468	1.215292573	0.332760111	-1.2439695	0.251072561
Ercc3 13872	1.215270107	0.168675721	1.060216175	0.35972882
Hexb 15212	1.215207907	0.167086144	1.080830955	0.333214699
Hmg1l1 434174	1.215174919	0.054310279	1.231350838	0.014696177
LnX2 140887	1.215132185	0.055219732	1.134177864	0.112842627
Ccdc15 245902	1.215093219	0.369918663	1.215093219	0.369918663
Rmi1 74386	1.214931473	0.165982937	1.29686741	0.053963965
Arl6ip5 65106	1.214587594	0.029928944	1.325090821	0.001678539
2010305A19Rik 69893	1.214502923	0.183716138	1.214502923	0.183716138
4930503L19Rik 269033	1.214285714	0.437695173	1	#DIV/0!
Hsp90b1 22027	1.214086846	0.098471021	1.464001479	0.000316062
Sowaha 237761	1.213982889	0.359535795	1.213982889	0.359535795
Dcaf13 223499	1.213794402	0.114156815	1.132919578	0.067905449
Hsf2bp 74377	1.213489281	0.397604444	1.213489281	0.397604444
Akt3 23797	1.213391538	0.300645306	1.213391538	0.300645306
Wdr5 140858	1.212847801	0.022809698	1.110171267	0.062008719
Egr1 13653	1.21275754	0.275946386	-1.004869606	0.493665107
G2e3 217558	1.212692587	0.397277013	2.038087685	0.217686927
Cbx6 494448	1.212522313	0.172613505	1.077185499	0.342367122
C9 12279	1.212504951	0.03619967	1.147549997	0.072300248
Pak1ip1 68083	1.212227738	0.08149234	1.151419817	0.149183094
Rab13 67657	1.212131053	0.096962528	1.120618349	0.191337618
Klf11 194655	1.212088388	0.153568311	1.212088388	0.153568311
Nek8 140859	1.211889992	0.216754559	1.169471473	0.225124294
Spp1 74585	1.211769415	0.115968694	-1.00738884	0.454195937
Sumo3 20610	1.211736644	0.015288003	1.197621346	0.006711117
Rpl36a 19982	1.211704749	0.240450782	1.219310287	0.095552329
2700023E23Rik 70036	1.211589354	0.308915153	-1.063058053	0.432999923
Smpd2 20598	1.211538652	0.08081441	1.158107135	0.148806185
Gdap2 14547	1.211156132	0.188751787	1.393722689	0.066530657
1700066M21Rik 73467	1.211134013	0.207403777	1.195210317	0.18155282
Actb 11461	1.211098723	0.106557078	1.107242748	0.219962028
Zfp943 74670	1.210626726	0.263377687	1.445183986	0.049821949
Ctstn3 232370	1.210535039	0.242936261	1.436942731	0.103257913
Atp6v1d 73834	1.210461459	0.074349751	1.191172625	0.049277362
D19ErtD737e 76539	1.210459177	0.218895745	-1.11396221	0.177677732
Ndufa5 68202	1.210282872	0.168860665	-1.01035378	0.47385928
Gmppb 331026	1.210272872	0.177578345	1.402972765	0.046901843
Rb1cc1 12421	1.210137145	0.211775057	1.564820883	0.002878966
UbtD2 327900	1.210045778	0.31641289	1.01372833	0.484857886
Rps19-ps3 277692	1.210038729	0.234005319	1.014405771	0.474497752
Alkbh1 211064	1.209988703	0.079754261	1.209988703	0.079754261
Lig3 16882	1.209914002	0.129580326	1.021956149	0.434574179
Rassf3 192678	1.209807779	0.093872877	1.365258927	0.00660231
Dennd4a 102442	1.209717713	0.13174231	1.122536606	0.245041714
AI846148 68229	1.209648089	0.149117285	-1.024334607	0.410635991
Sema3f 20350	1.209645114	0.163991615	1.240613111	0.105563532
Tbc1d24 224617	1.209437161	0.156063882	1.088904102	0.298137
Rars 104458	1.209184825	0.039237853	1.209184825	0.039237853

Cox16 66272	1.209166105	0.047364503	1.252384296	0.03578061
Rpl23 65019	1.209091197	0.059260191	1.055711755	0.226243436
Mbnl1 56758	1.209062742	0.099255625	1.035208184	0.364253165
C87436 232196	1.208974936	0.156257044	1.208974936	0.156257044
Acnat2 209186	1.208937175	0.086021286	1.397314341	9.35491E-05
Ndufb2 68198	1.208810097	0.149805897	1.211262476	0.044233311
Rraga 68441	1.208644956	0.035796778	1.14168336	0.06957952
Tusc1 69136	1.208428786	0.245313656	-1.133315258	0.227358228
Pwp1 103136	1.208145092	0.219649947	1.07720324	0.380544671
Hexa 15211	1.208100452	0.11185486	1.185954062	0.081844244
Gtf2e2 68153	1.207970654	0.185971054	1.207970654	0.185971054
Cadm4 260299	1.207888403	0.212697154	1.394415538	0.088912466
Vmp1 75909	1.207763089	0.029477123	1.3205935	0.001252066
Cdk9 107951	1.20758929	0.105575617	1.133327007	0.192751379
Rpp30 54364	1.207534354	0.303639046	-1.082050796	0.402450513
Dnajc8 68598	1.207514541	0.07216957	1.207514541	0.07216957
Pnpt1 71701	1.207484695	0.292254089	1.398476606	0.140044676
Ptp4a1 19243	1.207367791	0.101840315	1.302262904	0.023847873
Cyca 13063	1.207327662	0.114747765	1.206814847	0.072314688
Dnajc12 30045	1.207291211	0.156098215	1.230425194	0.064494886
Gdf2 12165	1.207163569	0.04518972	1.207163569	0.04518972
Atxn7l3b 382423	1.207025322	0.077835857	1.128042181	0.158393048
Fam109a 231717	1.207004785	0.077862596	1.207004785	0.077862596
Myeov2 66915	1.206953168	0.115424321	1.002294145	0.489072967
Tpst1 22021	1.206689836	0.101275124	1.206689836	0.101275124
Plin2 11520	1.206651132	0.172792209	1.132656653	0.18179932
Epc1 13831	1.20651264	0.088155595	1.20651264	0.088155595
Tbp 21374	1.206417075	0.218260609	-1.076961018	0.336859917
Cep76 225659	1.206406781	0.274539269	1.206406781	0.274539269
Ifi27l2b 217845	1.20616648	0.139626225	1.20616648	0.139626225
Cbx3 12417	1.206160673	0.050672719	1.121358515	0.092773642
Pnpla2 66853	1.206087986	0.101992776	1.205974754	0.091655745
Al118078 244886	1.206071834	0.353373551	-1.089387769	0.368162488
Pigt 78928	1.205916485	0.116739046	1.205916485	0.116739046
Traf2 22030	1.205586525	0.184146245	1.034644572	0.411206201
Isg20l2 229504	1.205207844	0.034135785	1.145766983	0.068900383
Bcl7c 12055	1.205169597	0.253631486	1.150555105	0.273172947
Galnt4 233733	1.205168906	0.323025022	1.151423698	0.364555122
Fas 14102	1.205125328	0.205513249	1.234212381	0.08633485
Lpar2 53978	1.205027253	0.366790988	1.011787147	0.488717394
Rsad2 58185	1.205026846	0.248825624	1.205026846	0.248825624
Srsf9 108014	1.204818704	0.057623965	1.187078428	0.089412725
Cgrrf1 68755	1.204805718	0.152863271	1.351528304	0.050917617
Caln1 140904	1.204745767	0.251989632	1.025029239	0.462587125
Rbmx 19655	1.204586129	0.127051165	1.450082392	0.004087244
Adcyap1r1 11517	1.204478181	0.304277174	-1.108642241	0.360777983
Nhlrc2 66866	1.204390851	0.211618134	1.236610819	0.110804248
Sub1 20024	1.20406521	0.02677179	1.249211082	0.016206716
Atp6v0b 114143	1.204058263	0.071588268	1.045315192	0.272809987
Map3k1 26401	1.203879029	0.304802463	1.203879029	0.304802463
Ssb 20823	1.203859607	0.119317592	1.325265531	0.011852544
Tbca 21371	1.203772103	0.083877787	1.157259408	0.051166201
Il1r1 16177	1.203532267	0.285526137	1.625351555	0.051660231

Abca9 217262	1.203451049	0.400383065	-1.465157012	0.318275402
Zfp212 232784	1.203326186	0.196477661	-1.05320905	0.369376489
Pcyox1l 240334	1.203275735	0.297315693	1.464432736	0.157229704
Tubb4b 227613	1.20326031	0.09541606	1.249998749	0.066739964
Prr3 75210	1.203234545	0.10521897	1.345110587	0.015449999
Fam55d 244853	1.20297971	0.410025603	3.907410225	0.07895149
A930001N09Rik 77128	1.202947258	0.188461278	1.202947258	0.188461278
Fam131c 277743	1.202876294	0.166839671	-1.035344677	0.370047836
Supt3h 109115	1.202543032	0.30584607	1.404496125	0.105889684
Eif3e 16341	1.20250339	0.048370906	1.133764222	0.099079925
Zfp46 22704	1.202492688	0.1904286	1.36085529	0.031532007
1110008J03Rik 100764	1.20233137	0.226250907	1.391460715	0.038042068
Cdh1 12550	1.202302375	0.228296479	1.658995467	0.001533459
Eif1a 13664	1.201983138	0.175654831	1.164982979	0.136784416
Prc1 233406	1.201879057	0.402331357	1.201879057	0.402331357
Angel2 52477	1.201849045	0.146808636	1.201849045	0.146808636
Tnik 665113	1.20182586	0.402886026	-1.817607799	0.201128651
Bub1 12235	1.201808426	0.407356298	1.195314368	0.428478238
Ung 22256	1.201738149	0.148287427	1.125158908	0.156053134
BC017612 170748	1.201339293	0.122974199	1.270428935	0.066414035
Aprt 11821	1.201136963	0.143208496	1.282159722	0.071656455
Rhoc 11853	1.200936164	0.190966824	1.130184508	0.129627884
Rab3a 19339	1.20056306	0.215120297	1.008657805	0.479843297
Adal 75894	1.200429288	0.275086499	1.200429288	0.275086499
Aldh1a7 26358	1.200381016	0.163188879	1.3312342	0.033164078
Rhpn2 52428	1.200356161	0.247065549	1.445671173	0.086059242
Atp5g3 228033	1.200337553	0.034935489	1.278472176	0.006889345
Elk4 13714	1.200290297	0.093478885	1.200290297	0.093478885
Rnf217 268291	1.200252269	0.148770211	1.081256698	0.293991877
Usp20 74270	1.200126733	0.127761096	1.316907833	0.047693291
Taf4b 72504	1.199791099	0.409022405	-1.779313652	0.246948927
Scoc 56367	1.199671215	0.311132582	-1.105928806	0.372767289
Igfbp7 29817	1.199666768	0.074129367	1.047259131	0.289556773
Lrrc33 224109	1.199548933	0.162176997	1.164611424	0.117746234
Ppp4r2 232314	1.199233125	0.225779995	1.482602423	0.032323029
Rpl5 100503670	1.199203411	0.127442416	1.097490523	0.257025788
Cttnbp2nl 80281	1.199033407	0.299967895	1.36845016	0.080890681
2410131K14Rik 76792	1.198909508	0.128223941	1.43802279	0.004509138
Rgs4 19736	1.198849966	0.381552677	2.362070998	0.081612439
Nhsl1 215819	1.198783402	0.302415532	1.94151797	0.003806704
Urm1 68205	1.198773706	0.109645812	1.29820696	0.021464417
Rpp21 67676	1.198650606	0.218514984	1.113503406	0.333023893
Fcna 14133	1.198638424	0.022402952	1.198638424	0.022402952
Golga3 269682	1.198427154	0.160789766	1.332803251	0.063888444
Arf6 11845	1.198369464	0.051636551	1.060885182	0.192306322
Clip4 78785	1.198262043	0.421473229	5.0331	0.093589634
A330049M08Rik 230822	1.198232707	0.340513677	1.198232707	0.340513677
2010107E04Rik 70257	1.198223618	0.149023143	-1.01431139	0.439150644
Ndufa2 17991	1.19817101	0.231428028	-1.004388913	0.490555209
4933422H20Rik 432613	1.198079092	0.269258913	1.198079092	0.269258913
1500001M20Rik 68971	1.1977416	0.307225455	1.311591353	0.252290429
Ciapin1 109006	1.19760548	0.13365959	1.081100189	0.280193889
A930012L18Rik 626275	1.197581142	0.414865642	-1.144896552	0.447167923

Nt5c2 76952	1.197349698	0.056159662	1.2531896	0.03260017
Adck5 268822	1.19733673	0.11420523	1.086786755	0.236283094
1700030C10Rik 69513	1.197311244	0.308937072	1.118292142	0.366836352
Ube2n 93765	1.197019914	0.010469022	1.258124177	0.001185855
Fam167a 219148	1.196989281	0.385538989	-1.430229289	0.272060568
Cul5 75717	1.196627283	0.206229415	1.042358633	0.413598366
Kdm4a 230674	1.196596298	0.13371573	1.269169605	0.070488433
Srsf1 110809	1.196588212	0.154987392	1.196588212	0.154987392
Spon2 100689	1.196521386	0.148946396	1.279642532	0.072478305
A330040F15Rik 74333	1.196392551	0.409868573	-2.085282363	0.154585183
Ubxn11 67586	1.196114513	0.408588343	1.255130842	0.411829119
Gm5177 382450	1.196114513	0.408588343	1.255130842	0.411829119
Zbtb26 320633	1.196095735	0.347713778	1.196095735	0.347713778
Crtap 56693	1.195873106	0.251573839	1.189897061	0.170505164
Rad17 19356	1.195392228	0.108378805	1.308350147	0.031745984
Set 56086	1.195141948	0.078331291	1.195141948	0.078331291
Brix1 67832	1.195073551	0.144056221	1.094058539	0.281278594
Zfp953 629016	1.194925475	0.350575594	1.194925475	0.350575594
Zfp595 218314	1.194893788	0.332864902	-1.115591365	0.388242975
Hhex 15242	1.194817449	0.345516673	-1.220966275	0.294587217
Rpl36 54217	1.194752412	0.288390236	-1.087306462	0.359604351
Fam129b 227737	1.194735039	0.229323065	1.104424121	0.188072485
Minos1 433771	1.194633084	0.111575945	1.101817472	0.226918441
Chchd5 66170	1.194595968	0.1718355	1.039792696	0.385371515
Cdnf 227526	1.194514176	0.312662866	1.425582359	0.122378952
Elp3 74195	1.194377236	0.197961332	1.024827812	0.437539522
Slc25a47 104910	1.194277659	0.089584539	1.160803018	0.024781354
Wbp4 22380	1.194180863	0.080313158	1.144030651	0.078840225
Ash2l 23808	1.194132641	0.09449624	1.344454211	0.003687045
Pcgf6 71041	1.194058222	0.210689033	1.549287471	0.009597096
Gng2 14702	1.194045772	0.325259431	1.194045772	0.325259431
Bace2 56175	1.193853742	0.234939392	1.131428727	0.263119595
Pdzd11 72621	1.193700315	0.13749935	1.2973946	0.035853414
Zfp784 654801	1.193692723	0.240622841	1.193692723	0.240622841
Plk3 12795	1.193660747	0.276040595	1.496094741	0.08595487
Kctd15 233107	1.193304817	0.11538777	1.308938565	0.003682011
Acyp2 75572	1.192880955	0.381909529	2.002052472	0.143054761
Dnajb6 23950	1.192575292	0.163315026	1.192575292	0.163315026
Notch1 18128	1.192178841	0.204526713	1.242874239	0.081760346
Slc16a1 20501	1.192111378	0.138820962	1.259494424	0.079877551
Med10 28077	1.192039334	0.06392835	1.062842693	0.223686304
Casp8ap2 26885	1.192027102	0.367141822	1.192027102	0.367141822
2900010M23Rik 67267	1.191991657	0.232002327	-1.113798351	0.232539297
Haus7 73738	1.191980545	0.164021667	1.068950604	0.333718238
Tcp11l2 216198	1.191834663	0.297781605	1.033976928	0.46188077
Agpat9 231510	1.19178197	0.230371423	1.029759924	0.445341223
Emp1 13730	1.191765312	0.411605861	1.195314368	0.428478238
Sip1 66603	1.191731238	0.224077839	1.051044548	0.400977396
Gm7609 665378	1.191713865	0.382737633	2.026293467	0.137926329
Txn14a 27366	1.191697352	0.0080141	1.166882657	0.018176507
Ube2j2 140499	1.191615618	0.137213072	1.11268629	0.2509439
Enpp2 18606	1.191603984	0.241248511	1.533131171	0.012353345
Mid2 23947	1.191563265	0.403080743	1.107925644	0.449595369

Fastkd5 380601	1.191379809	0.265824187	1.588963846	0.027067119
Gfod2 70575	1.191378291	0.109284037	1.11464397	0.205381025
Itm2c 64294	1.191353175	0.017446253	1.094831122	0.045898006
4930403N07Rik 73936	1.191304111	0.385337562	1.756516064	0.211013396
Arfgef1 211673	1.191246853	0.198725936	1.191246853	0.198725936
Rngtt 24018	1.190970099	0.325769611	1.701260412	0.073527569
Olfr856-ps1 624341	1.190957377	0.312019686	1.327142176	0.241774988
2010003K11Rik 69861	1.190921907	0.260831005	-1.026489848	0.452187571
Parvg 64099	1.190870883	0.275565362	-1.177224379	0.20226527
Nxf1 53319	1.190852094	0.120688677	-1.002322033	0.486921321
Atpbd4 66632	1.190756079	0.193990013	1.105299143	0.307249167
Cebpg 12611	1.190678152	0.029701919	1.297732223	3.08148E-05
Fam174b 100038347	1.190668143	0.083163459	1.086895647	0.168298902
Traf3ip1 74019	1.190384287	0.227919107	-1.108591751	0.23405828
Hs2st1 23908	1.190338262	0.261311854	1.190338262	0.261311854
Clcn5 12728	1.190228635	0.411221383	1.264185714	0.40907038
Shb 230126	1.19019032	0.120919	1.218275735	0.0309584
Tcf19 106795	1.190063589	0.348033089	1.09611263	0.411842249
Churc1 211151	1.189882171	0.099222574	1.110783753	0.198953027
Vegfc 22341	1.189860108	0.358561392	-1.475437307	0.145118594
Mir17hg 75957	1.189796811	0.41215364	1.170129778	0.437059136
Ndufs4 17993	1.189776462	0.146396476	1.073521368	0.304173356
Cwc25 67480	1.189698517	0.229370054	1.389479884	0.082696418
Brp44 70456	1.189676085	0.060577665	1.098807642	0.11599498
Utp20 70683	1.189652908	0.213528301	1.189652908	0.213528301
Ube2m 22192	1.189601641	0.18323741	-1.058433372	0.280374823
Ttc33 67515	1.189556759	0.145856011	1.113405964	0.220699428
Asl 109900	1.189523377	0.158812481	1.244418331	0.114895709
Rundc3a 51799	1.189449842	0.153978428	1.001123074	0.496645045
2210018M11Rik 233545	1.189389724	0.071654834	1.331812435	0.003004808
Uba6 231380	1.189388449	0.265955447	-1.054544838	0.391969266
Gpr172b 52710	1.189279301	0.162867122	1.292988426	0.056524944
Enah 13800	1.189265729	0.39067696	1.813056099	0.208718294
A130040M12Rik 319269	1.188854525	0.349115773	1.188854525	0.349115773
8430406I07Rik 74528	1.188754374	0.212490672	1.348059503	0.041629778
Hmgxb3 106894	1.188743906	0.148411303	1.032614088	0.405850968
Kif5b 16573	1.18872823	0.202731054	1.574661687	0.000190327
Hspa13 110920	1.188663295	0.285098774	1.673874909	0.017754176
D14Abb1e 218850	1.188528235	0.151670978	1.188528235	0.151670978
Vwf 22371	1.188478474	0.213665755	1.188478474	0.213665755
Lrig2 269473	1.18830243	0.152882767	1.18830243	0.152882767
Ripply3 170765	1.188233327	0.364215164	-1.041454457	0.465340323
Rbm15 229700	1.188130461	0.275529005	1.178028245	0.174616752
Gsr 14782	1.188080976	0.023626163	1.188080976	0.023626163
Ndufb4 68194	1.18804327	0.101475674	1.093528307	0.211030248
Adamts9 101401	1.187941488	0.371555221	1.187941488	0.371555221
Atp6v1c1 66335	1.187904533	0.060390879	1.187904533	0.060390879
Zbtb7c 207259	1.187903501	0.319335388	-1.122202563	0.351384897
Klh132 212390	1.187845914	0.141598703	1.187845914	0.141598703
2310016M24Rik 66379	1.187672461	0.123255856	1.311092427	0.031242196
Thoc1 225160	1.187594352	0.157582788	1.099179124	0.287000079
Gm5617 434402	1.187584006	0.143715189	1.187584006	0.143715189
Rbm15b 109095	1.187475436	0.276875681	1.187475436	0.276875681

Naa20 67877	1.187445701	0.217621184	1.502521696	0.011016545
Dcp2 70640	1.187442211	0.264224965	1.272143107	0.196385977
Seh1 72124	1.187413593	0.100448887	1.179076716	0.027097347
31100821 17Rik 73212	1.187287881	0.181056859	1.15392178	0.181137836
Rogdi 66049	1.187208226	0.192140523	1.09060313	0.321198079
Ccdc90b 66365	1.186945301	0.275749849	1.033806533	0.448706248
H2-Aa 14960	1.186833055	0.284562124	-1.100396526	0.301317955
Chpf 74241	1.186828145	0.264244926	1.269509455	0.010289553
Fhod1 234686	1.186756378	0.158807499	1.079169361	0.302466805
Bcl2l1 12048	1.186650512	0.106155825	1.075753125	0.222026173
Oas1a 246730	1.186613973	0.292830975	1.36306092	0.135808472
Tmem18 211986	1.186448892	0.168550321	1.077647024	0.324864857
2310045N01Rik 72368	1.186199354	0.121184763	1.110839467	0.229369167
Nutf2 68051	1.186189265	0.103737334	1.085276183	0.215301595
Wrb 71446	1.186075549	0.326673277	1.411703611	0.110933742
Tmem135 72759	1.185877315	0.192830624	1.359527408	0.055208905
Rnd1 223881	1.185736452	0.219112887	1.237078879	0.057917735
Pdlim1 54132	1.185518768	0.059088253	1.115549005	0.12070504
Mcm10 70024	1.185474679	0.1282708	1.290872472	0.022024612
Vps29 56433	1.185368896	0.134827072	1.108000671	0.240871219
Bcam 57278	1.185315606	0.260087534	1.001423074	0.497604965
Ubfd1 28018	1.185223698	0.055905111	1.332697915	0.001306258
Ren2 19702	1.185215559	0.416643489	1.150701957	0.450338304
Sntg2 268534	1.18519724	0.307123503	1.759680614	0.031487133
Bbs2 67378	1.185094329	0.302790958	1.471419608	0.131407284
Acadsb 66885	1.184876155	0.042081542	1.112706689	0.072645506
Atp6v0d2 242341	1.184813694	0.309312904	1.443441222	0.077261806
Krcc1 57896	1.184605122	0.205931123	1.070251453	0.368021463
Pid1 98496	1.184600574	0.124173314	1.184600574	0.124173314
Ilvbl 216136	1.184509362	0.145683713	1.184509362	0.145683713
Rpl19 19921	1.184444815	0.275072297	1.111013268	0.286493796
Irak4 266632	1.184379498	0.145094979	1.16297901	0.136196633
Acsm2 233799	1.184335482	0.402500128	2.35484547	0.137660468
Obsl1 98733	1.184186147	0.366134053	1.184186147	0.366134053
Nudcd2 52653	1.184089988	0.183789494	1.060917145	0.351985846
Fbl 14113	1.184058642	0.174538082	1.054122836	0.362603177
Ikzf4 22781	1.184042317	0.409955072	2.495036093	0.151126021
Zfp71-rs1 235907	1.183995776	0.33171996	-1.00805062	0.490755365
Slc13a4 243755	1.183942021	0.414754484	1.178571429	0.43416
Fam113b 239647	1.183926407	0.108344545	1.281412186	0.037561713
Tubb5 22154	1.183876029	0.155599576	1.174779625	0.052605617
Gm3833 100042415	1.183621596	0.272413012	-1.213802317	0.046437947
Rpl18a 76808	1.183611693	0.272242149	-1.060702867	0.381338137
Mki67 17345	1.183602513	0.39345127	1.622532447	0.256539303
Igsf8 140559	1.183554344	0.254751364	-1.020617752	0.459478067
Dem1 73172	1.183486929	0.297433516	1.190219708	0.261201203
Srf 20807	1.18344531	0.03469193	1.153304376	0.066867415
Rps16 20055	1.183427207	0.227615003	-1.000721854	0.498286826
2610204G22Rik 70448	1.183274414	0.394032592	1.820157617	0.207329861
Btf3 218490	1.183176124	0.107731072	1.104678285	0.214085604
Dgat1 13350	1.183075409	0.053897636	1.183075409	0.053897636
Erich1 234086	1.182921768	0.328699917	1.458816847	0.182476319
Det1 76375	1.182855961	0.272892765	1.182855961	0.272892765

Paics 67054	1.182559649	0.011342728	1.099314219	0.018546965
Nsun2 28114	1.182380805	0.091534912	1.14085252	0.014663493
Fam117b 72750	1.182360677	0.22805723	1.182360677	0.22805723
Pdia5 72599	1.182336497	0.095125102	1.166751348	0.035355607
Gsg1 269994	1.182191812	0.405185128	-1.615913663	0.244974828
Timm8b 30057	1.182185374	0.100656718	1.283399414	0.027673453
Kcng4 66733	1.182120928	0.428022407	1	#DIV/0!
Cdkn2a 12578	1.182120928	0.428022407	1	#DIV/0!
Pabpc1 381404	1.182120928	0.428022407	1	#DIV/0!
Rpl3 66211	1.182120928	0.428022407	1	#DIV/0!
Fkbp6 94244	1.182120928	0.428022407	1	#DIV/0!
Zfp488 382867	1.182120928	0.428022407	1	#DIV/0!
Lrrn1 16979	1.182120928	0.428022407	1	#DIV/0!
C330021F23Rik 546049	1.181984224	0.155126367	-1.030133618	0.371268938
1700003E16Rik 71837	1.181968062	0.333234585	1.024008621	0.463101133
Jag1 16449	1.181787905	0.323717692	1.731609106	0.043086369
Eed 13626	1.181746347	0.254552197	1.181746347	0.254552197
Mapre3 100732	1.181167838	0.155959883	1.232668873	0.07498346
Setd4 224440	1.181128908	0.284839359	1.326352492	0.192598073
Ccnj 380694	1.181022306	0.421598419	-1.877217172	0.253663907
6330416G13Rik 230279	1.180845923	0.228969909	1.082198442	0.357818347
Alyref 21681	1.180581461	0.138319128	1.388734669	0.00429947
Phc2 54383	1.180382464	0.123118052	1.069142047	0.263936749
Sec11a 56529	1.1801724	0.115483524	1.194403328	0.051022677
1110049F12Rik 66193	1.180125607	0.041006441	1.137098338	0.082478172
Cyp2c70 226105	1.179949138	0.274058295	-1.052616825	0.401456027
Zhx2 387609	1.179903065	0.130447223	1.179903065	0.130447223
2610101N10Rik 67958	1.179770568	0.197113395	1.332629002	0.071716999
Hspa5 14828	1.179683555	0.270902605	1.555132527	0.016082492
Ms4a6c 73656	1.179388151	0.310135851	1.60489489	0.05706931
Alkbh2 231642	1.179348104	0.337738901	1.006571262	0.48987436
Pld6 194908	1.179217389	0.325013888	-1.160691022	0.286672468
Mical2 320878	1.178942528	0.108035441	1.178942528	0.108035441
AI450353 103729	1.178847292	0.356542829	1.178847292	0.356542829
Capn6 12338	1.17882635	0.356990855	1.618103207	0.16108132
Gm13889 620695	1.178735394	0.303817351	-1.047355103	0.437351724
Bcl11b 58208	1.178601821	0.421093154	-2.237469697	0.16135399
Oas1g 23960	1.178588813	0.3168744	1.178588813	0.3168744
Gpr35 64095	1.17832672	0.381964275	1.17832672	0.381964275
Rnf121 75212	1.178211521	0.182524359	1.173770498	0.033554069
1810063B05Rik 67892	1.178080228	0.266745678	1.335352514	0.155912123
Rpf1 70285	1.177910813	0.174682659	1.305222883	0.030465437
St8sia4 20452	1.177668806	0.346301598	-1.010311365	0.489160098
Rpl35 66489	1.177549134	0.281395759	1.091016771	0.292208773
Unc13a 382018	1.177437791	0.252864442	1.43037554	0.059997818
Lrmp 16970	1.177309326	0.316962807	1.74132668	0.009645367
Tbcb 66411	1.177227995	0.180464273	1.111550191	0.287098411
Psmb4 19172	1.177139695	0.03627186	1.140903951	0.016161582
Dek 110052	1.176886591	0.282063396	1.458104715	0.085903225
Nop56 67134	1.176811712	0.094710155	1.144288381	0.036876904
Emd 13726	1.176773451	0.111051359	1.016314838	0.419685429
Cpd 12874	1.176639727	0.229909533	1.176639727	0.229909533
Mrpl20 66448	1.176514981	0.099706353	1.176514981	0.099706353

P4ha1 18451	1.17623276	0.107510883	1.257447347	0.047051917
Rps10 67097	1.176135935	0.21073722	-1.086884309	0.215598996
Map3k10 269881	1.175795575	0.129420757	1.295547235	0.031189978
Psmg4 69666	1.175678528	0.152661987	1.173268841	0.034725836
Mob4 19070	1.175630651	0.130155114	1.361878018	0.00691945
Gm7104 633093	1.175608	0.443532116	1	#DIV/0!
Klhl11 217194	1.175608	0.443532116	1	#DIV/0!
A930011G23Rik 319818	1.175608	0.443532116	1	#DIV/0!
Creld1 171508	1.175520891	0.085091343	1.345716106	0.00141864
Csrnp2 207785	1.175344978	0.276893178	-1.157808361	0.212410392
Tpt1 22070	1.174915961	0.105933334	1.099880683	0.211341263
Npm1 18148	1.174864101	0.077729521	1.11519827	0.151440312
Dirc2 224132	1.174863208	0.031044038	1.120012933	0.05860479
Ndufv2 72900	1.174839374	0.066811137	1.099017018	0.133347006
Siah1b 20438	1.174522209	0.387266496	-1.446519002	0.218759954
Ercc4 50505	1.174106336	0.102826322	1.088869819	0.208861405
Klhdc10 76788	1.174073736	0.050090265	1.174073736	0.050090265
Bach1 12013	1.173920135	0.295534689	1.173920135	0.295534689
Ccdc56 52469	1.173704883	0.069066431	1.173704883	0.069066431
Rps5 20103	1.173376813	0.247802341	1.005389211	0.489408577
Sf3b3 101943	1.173103228	0.20005747	-1.051350049	0.35319757
Psmg2 107047	1.173091231	0.204494644	1.173091231	0.204494644
Lfng 16848	1.172978248	0.154526348	1.228326543	0.063942705
Cdca3 14793	1.172877731	0.307214136	1.278539544	0.222389143
Ikzf2 22779	1.172875241	0.363328849	2.108741018	0.024168518
Polr1e 64424	1.172818575	0.303353189	1.172818575	0.303353189
Uqcrfs1 66694	1.172801164	0.038766618	1.28220905	0.001092411
Fgfr1 14182	1.172491711	0.216061367	1.172491711	0.216061367
Rph3al 380714	1.172290899	0.412053421	1.084493596	0.441089956
Coq7 12850	1.17213954	0.194816347	1.413498452	0.021166167
Qsox1 104009	1.17209353	0.08011243	1.17209353	0.08011243
Endog 13804	1.172086789	0.201382163	-1.058084442	0.323968064
Tmem39b 230770	1.172069524	0.193405627	1.301174193	0.041399441
Pdcd2l 68079	1.171851759	0.191834205	1.067386321	0.34391782
Comtd1 69156	1.171773922	0.3046897	1.260360927	0.170359931
Msh3 17686	1.171600353	0.224001484	1.380935606	0.046562033
Gm16378 100043225	1.171596188	0.107208361	1.143068534	0.074952438
Heatr1 217995	1.171502394	0.109185084	1.171502394	0.109185084
Kctd20 66989	1.1714123	0.228351574	1.062734717	0.378672248
Ggnbp1 70772	1.171348433	0.252211962	1.042320495	0.310031783
Pde4c 110385	1.171343106	0.201806268	-1.062686715	0.303409685
Rd3 74023	1.171243716	0.249042127	-1.124031316	0.205364319
Gpld1 14756	1.171222743	0.018197915	1.171222743	0.018197915
Msr1 20288	1.171206812	0.278716692	1.033012044	0.447284978
H2afv 77605	1.171038658	0.138076886	1.062322652	0.295419274
Gm6402 623169	1.170960359	0.297026403	1.248691848	0.146319832
Stxbp5 78808	1.170885014	0.262306772	1.170885014	0.262306772
lah1 67732	1.170856119	0.108478344	1.012548835	0.436104511
Wibg 78428	1.170782396	0.173097958	1.068927224	0.332787071
Camk2b 12323	1.170778171	0.31311342	1.029345324	0.462381482
Invs 16348	1.170739539	0.344282585	1.649026172	0.095718159
Ing1 26356	1.170529275	0.231631973	1.33209139	0.09675943
Vps25 28084	1.17049228	0.084596206	1.260726721	0.018971319

Gucy1a3 60596	1.17047396	0.325979548	1.193308042	0.288094862
Zfp30 22693	1.170350203	0.320980288	1.170350203	0.320980288
Arhgef3 71704	1.17033403	0.232016782	1.284164276	0.082355092
Acer2 230379	1.17027186	0.116068507	1.192137216	0.110344119
Amigo1 229715	1.170131172	0.146482867	1.17086529	0.049633448
Ost4 67695	1.169935176	0.105730979	1.022329602	0.391399232
Snx20 71607	1.16987537	0.397590327	-1.343191281	0.318876392
Dhodh 56749	1.169815679	0.208175743	1.348312993	0.051155338
Btf3l4 70533	1.169789813	0.050383888	1.169789813	0.050383888
Tm4sf4 229302	1.169721133	0.058945068	1.111758546	0.120425985
Mal2 105853	1.169646665	0.18028781	1.29502799	0.069205364
Tomm6 66119	1.169608169	0.155016303	1.058134851	0.326115604
Tmem120a 215210	1.169570319	0.125270212	1.204709348	0.100947304
Dnaja4 58233	1.169464851	0.322417492	1.169464851	0.322417492
Rchy1 68098	1.169427658	0.098516415	1.062334923	0.18463296
Plaa 18786	1.169391076	0.125122892	1.266203196	0.019254721
Cast 12380	1.169369473	0.204289185	1.161486469	0.203564326
Mrfap1 67568	1.169247831	0.141385828	1.253906061	0.047044679
Gnl1 14670	1.169034398	0.156771758	1.057822486	0.328670865
Arhgef2 16800	1.169010956	0.222329297	1.169010956	0.222329297
Dpt 56429	1.168935665	0.284421422	-1.142763393	0.270404893
Ccdc73 211936	1.16879777	0.418648431	1.002806537	0.498817668
Ccdc21 70012	1.168170258	0.324435737	-1.141247725	0.301490639
Mfsd8 72175	1.167941678	0.303162384	1.37456662	0.163370081
Sbds 66711	1.167753025	0.029382574	1.071585446	0.094296807
Cab39 69008	1.167697955	0.167389574	1.317694259	0.019909718
Inhba 16323	1.167544183	0.322468047	1.388818085	0.116154653
Mapk11 19094	1.167455853	0.289251654	1.167455853	0.289251654
Sec23a 20334	1.167436829	0.265962309	1.183101409	0.215076752
Hmgb3 15354	1.16740487	0.170131822	1.413013934	0.003839748
Alkbh6 233065	1.167197437	0.08982849	1.185310004	0.031165971
Ppil3 70225	1.167194556	0.210475405	1.035943258	0.416553152
Kctd7 212919	1.166926821	0.387623365	-1.088974331	0.434485817
Ndufb6 230075	1.16680291	0.017887747	1.110766516	0.025493214
Cdk4 12567	1.166701409	0.194285655	-1.04796512	0.344111912
Mki67ip 67949	1.166683132	0.17408844	1.069567924	0.321268149
Pacrg 69310	1.166666667	0.433741809	1	#DIV/0!
Baiap2l2 207495	1.166666667	0.433741809	1	#DIV/0!
Bmp10 12154	1.166666667	0.433741809	1	#DIV/0!
Chrdl1 83453	1.166666667	0.433741809	1	#DIV/0!
Gm13238 236069	1.166666667	0.433741809	1	#DIV/0!
Ttc22 230576	1.166666667	0.433741809	1	#DIV/0!
Zscan10 332221	1.166666667	0.433741809	1	#DIV/0!
Chgb 12653	1.166666667	0.433741809	1	#DIV/0!
Mmp27 234911	1.166666667	0.433741809	1	#DIV/0!
Dhh 13363	1.166666667	0.433741809	1	#DIV/0!
D830030K20Rik 320333	1.166666667	0.433741809	1	#DIV/0!
Cxhc4 319478	1.166666667	0.433741809	1	#DIV/0!
5430405G05Rik 108832	1.166666667	0.433741809	1	#DIV/0!
Rnaseh2a 69724	1.166653034	0.160111596	1.195747965	0.101706556
Osgin1 71839	1.16660773	0.296477255	-1.036254343	0.445502778
Arpc1a 56443	1.166321998	0.014073803	1.134148248	0.030524625
Wnt5b 22419	1.166311979	0.27185553	1.561395254	0.009759317

Rassf4 213391	1.165965297	0.298663824	-1.188779916	0.208442043
Mms19 72199	1.165895297	0.158131813	1.165895297	0.158131813
Nsmaf 18201	1.165758579	0.279015627	1.208642219	0.202194994
Smcr7l 239555	1.16572152	0.126726692	1.16572152	0.126726692
Ogfod1 270086	1.165707974	0.246182461	1.165707974	0.246182461
Cox4i1 12857	1.165702504	0.191239571	1.048661701	0.379010864
B230120H23Rik 65964	1.165668099	0.203389292	1.158128358	0.113607191
Rsb1 229675	1.165620097	0.426363226	2.791782706	0.160879221
Ostb 330962	1.165607184	0.42418314	-2.583325975	0.0615742
Asb8 78541	1.165604581	0.047166197	1.219838404	0.010565331
Fam115a 77574	1.165278719	0.388616192	1.625890204	0.215871312
Dcaf12l1 245404	1.165151326	0.369954098	-1.416853238	0.186792482
Rgl2 19732	1.165104123	0.070782252	1.209133685	0.007229236
C030046l01Rik 109284	1.165006301	0.068804386	1.0845802	0.128166682
Cdk7 12572	1.164875459	0.101935362	1.011544208	0.427996311
Grn 14824	1.164765129	0.062194536	1.24194931	0.012229376
Angpt2 11601	1.164692899	0.393499011	1.164692899	0.393499011
Chfr 231600	1.164470396	0.226213388	1.083080115	0.353731045
Wdr43 72515	1.164405924	0.019743762	1.109789778	0.031234034
Wtip 101543	1.164404941	0.352076436	1.150012803	0.295984863
Psmb7 19177	1.164348704	0.08163882	1.08772598	0.167684911
Agfg1 15463	1.164322887	0.263260067	1.240147341	0.127425522
Zfp26 22688	1.164279988	0.292748059	1.164279988	0.292748059
Jun 16476	1.164131667	0.254323394	1.164131667	0.254323394
Rab27a 11891	1.164090272	0.264119268	1.256422555	0.197077496
Nat8 68396	1.16401302	0.385167083	1.587020173	0.217829834
Gm5148 381438	1.163854664	0.180585177	-1.045202742	0.3255113
Nlrc4 268973	1.16372579	0.422523456	3.168797619	0.09792829
Swap70 20947	1.163702847	0.280855531	1.278592757	0.167460027
Psmg3 66506	1.163669249	0.195591639	1.257030467	0.086325629
Naca 17938	1.163640791	0.120103657	1.017576566	0.427177022
A1462493 107197	1.163559204	0.230163474	1.019022719	0.457423985
Dnaja1 15502	1.163535621	0.157059608	1.332777518	0.007498539
Narf 67608	1.163408155	0.20905417	1.44220022	0.008961513
Nol10 217431	1.163387431	0.099181254	1.163387431	0.099181254
Pabpn1 54196	1.16333846	0.161996896	1.16333846	0.161996896
G3bp1 27041	1.1633089	0.049287991	1.224948705	0.014284447
4933432B09Rik 75729	1.163217594	0.392816686	1.163217594	0.392816686
Gm5595 434179	1.163196616	0.390918424	-1.05368395	0.461995549
Ccdc8 434130	1.163186547	0.41543557	2.766348671	0.092098057
Atp6v1b2 11966	1.163110264	0.118727428	1.114058547	0.139578995
Cd74 16149	1.163023583	0.327431044	-1.093577488	0.274410385
Senp7 66315	1.162996105	0.27425017	1.419020146	0.068828883
Ube2s 77891	1.162939481	0.26677358	1.162939481	0.26677358
Scn1b 20266	1.162810817	0.223426378	1.380876061	0.02753551
Dcun1d5 76863	1.162803367	0.156541447	1.162803367	0.156541447
Dpf3 70127	1.162690923	0.295279255	-1.035283093	0.407842961
0610009D07Rik 66055	1.162425057	0.151763494	1.172315132	0.099143558
Ncl 17975	1.162234905	0.193762659	1.038265138	0.397955814
1600002H07Rik 72016	1.162219803	0.147470103	1.162219803	0.147470103
Adck4 76889	1.162192222	0.270609737	-1.066939332	0.327854648
Tnfrsf10b 21933	1.162185708	0.365667533	1.162185708	0.365667533
E030024N20Rik 595139	1.162143576	0.145923907	1.150733776	0.083601265

Spata24 71242	1.162077256	0.271313675	1.009113988	0.482271509
Rpl27 19942	1.16196737	0.194773839	-1.049931577	0.334810077
Erp44 76299	1.161751203	0.027216292	1.171610047	0.007587586
Cct5 12465	1.161645811	0.086294276	1.208354185	0.00556123
Lrch4 231798	1.161566992	0.410569179	-1.394599698	0.322100701
Cpm 70574	1.161323527	0.256909404	1.071979224	0.346473023
Cbfa2t2 12396	1.16130561	0.275215492	1.317867311	0.152013569
Rps3 27050	1.161283059	0.239764654	1.004836475	0.488985137
Snhg7 72091	1.161280123	0.393876865	-1.503998666	0.17396124
S100a13 20196	1.161095588	0.281465999	-1.028224717	0.4500283
Zfp566 72556	1.16108863	0.390553888	1.16108863	0.390553888
Adamts13 279028	1.161087794	0.215393751	1.455447902	0.007272478
Aldoa 11674	1.160848782	0.093102509	1.109875596	0.175892906
D18Erttd653e 52662	1.160774387	0.285201452	-1.005633676	0.49097026
Shfm1 20422	1.160688232	0.202178811	-1.048296868	0.355674858
Rpl13 270106	1.160592669	0.271582858	-1.159189434	0.14998973
Atp5i 27425	1.160436789	0.24368019	-1.103942301	0.242373302
Lmod1 93689	1.160402055	0.386720902	1.439603776	0.177448313
Zbtb46 72147	1.160305793	0.375924678	-1.153811245	0.383911645
Snx25 102141	1.160003706	0.263464496	-1.025366411	0.445767895
Jmy 57748	1.159937187	0.375209935	1.054640109	0.440921962
Tigit 100043314	1.159865072	0.427102472	1.099838978	0.465920044
Cog6 67542	1.15986367	0.300462768	1.315429802	0.143214961
Prdm16 70673	1.159776501	0.400376053	1.159776501	0.400376053
Snhg8 69895	1.159746502	0.267669868	-1.017098338	0.466398702
Tex9 21778	1.159733333	0.42415282	1.178571429	0.43416
Dtymk 21915	1.159629695	0.117022409	1.091985778	0.220797368
Slc2a3 20527	1.159487881	0.383230263	-1.2570926	0.316762244
E130201H02Rik 78552	1.159472653	0.341311184	-1.030077964	0.462411479
Snrnp40 66585	1.159433418	0.260569003	1.203209039	0.197828705
Cd300a 217303	1.159361331	0.207364167	1.044708098	0.395475592
Mfap1a 67532	1.159227979	0.247401194	1.150932581	0.21751729
Kin 16588	1.15921373	0.099930596	1.202714858	0.039777699
Pglyrp2 57757	1.158971254	0.025995486	1.103180202	0.044345243
Ndufaf2 75597	1.158897299	0.132607238	1.338834807	0.005113125
Slc2a10 170441	1.158863651	0.436660012	1	#DIV/0!
Hipk4 233020	1.158863651	0.436660012	1	#DIV/0!
Synpo2 118449	1.158863651	0.436660012	1	#DIV/0!
Nkain2 432450	1.158863651	0.436660012	1	#DIV/0!
Lpar4 78134	1.158863651	0.436660012	1	#DIV/0!
4932441J04Rik 319216	1.158863651	0.436660012	1	#DIV/0!
C330027C09Rik 224171	1.158863651	0.436660012	1	#DIV/0!
9530026P05Rik 330385	1.158863651	0.436660012	1	#DIV/0!
Mrpl54 66047	1.158764347	0.105379825	1.094898494	0.206662337
Gtpbp4 69237	1.158742929	0.177955077	1.074655078	0.321482798
Id2 15902	1.158422734	0.255485487	1.355247924	0.082215697
Smap1 98366	1.158205772	0.197489994	1.419911954	0.006595859
St8sia3 20451	1.158067954	0.397489773	-1.431454432	0.242113817
Neurl2 415115	1.158045109	0.353358389	-1.060786023	0.442233181
2310037I24Rik 69612	1.158034297	0.242912253	1.241087173	0.026669592
Bsdcl1 100383	1.157688612	0.060077883	1.060041575	0.208077039
Depdc7 211896	1.157570045	0.290247252	1.091007119	0.382737645
Prrt4 101359	1.157231515	0.445548341	1	#DIV/0!

Comp 12845	1.157231515	0.445548341	1	#DIV/0!
Sema4f 20355	1.157231515	0.445548341	1	#DIV/0!
Nfkb2 18034	1.156492186	0.27321381	1.049475562	0.344348599
Fxr1 14359	1.156478678	0.149642465	1.266586697	0.042114686
Zbtb37 240869	1.15646318	0.413262928	1.15646318	0.413262928
Sptlc2 20773	1.156366172	0.136803192	1.156366172	0.136803192
Taf9 108143	1.156349987	0.156995475	1.259026828	0.056900966
S1pr2 14739	1.156140399	0.18042108	-1.024986793	0.410261811
Sema4d 20354	1.156082168	0.36873617	-1.188755473	0.334695565
Mak16 67920	1.156070102	0.196802718	1.156070102	0.196802718
Arhgap25 232201	1.1558242	0.356740394	-1.245578467	0.212444371
Gm10136 672214	1.15577187	0.320520934	1.105995862	0.288734726
Nsmce1 67711	1.155681751	0.124442583	1.072529095	0.169192818
Psemb5 19173	1.155672019	0.023221132	1.166185418	0.008130138
Ctnnb1 12387	1.155620734	0.213534459	1.300019028	0.073073705
Cd3e 12501	1.155611435	0.362793964	1.040642049	0.4569728
Atp5g2 67942	1.155593618	0.204099209	1.013339023	0.457785882
Pcdhgb8 93705	1.155503877	0.054290458	1.18096429	0.011554789
9530068E07Rik 213673	1.1554161	0.048928813	1.1554161	0.048928813
Siah2 20439	1.154983427	0.202483011	1.309049058	0.049261957
Mrgpre 244238	1.15490362	0.269846423	1.205414388	0.079817368
Zfp108 54678	1.154856193	0.380059341	-1.231043035	0.322061312
Zfp954 232853	1.154842106	0.244402994	1.085031702	0.273145666
Pgls 66171	1.154821193	0.233026807	1.045123782	0.401365571
Jdp2 81703	1.154787722	0.201918613	1.235510412	0.105485418
Lpcat3 14792	1.15478236	0.113662177	1.098560146	0.20592672
Skp1a 21402	1.154680651	0.091834578	1.15013522	0.045301882
Rhob 11852	1.154665872	0.145183055	1.066110938	0.294161365
Clec12a 232413	1.154616706	0.371418162	1.177925184	0.351610501
2310061C15Rik 66531	1.154493819	0.245812092	1.016275506	0.46574485
Rnd3 74194	1.154484219	0.252854126	1.474771095	0.01565874
Magix 54634	1.154480294	0.167928755	1.154480294	0.167928755
Ttc1 66827	1.154440193	0.14431398	1.220945005	0.066081082
Fam108b 226016	1.154355974	0.258856484	1.298445479	0.083462925
Gpx4 625249	1.154113326	0.294541533	-1.094639131	0.289155216
1600027N09Rik 73247	1.154040115	0.319636713	1.154040115	0.319636713
Trim28 21849	1.153950477	0.093025743	1.083236638	0.191763239
Atg2b 76559	1.153937051	0.073648238	1.104631096	0.146358617
Lrpprc 72416	1.153858453	0.151294172	1.349662266	0.004039182
H2afj 232440	1.153724189	0.270759701	-1.124178559	0.246690797
Usmg5 66477	1.153600181	0.181695062	1.153600181	0.181695062
Gm8801 667766	1.153553769	0.376751597	1.153553769	0.376751597
Prpf18 67229	1.15348798	0.107726971	1.053673082	0.224191991
Insc 233752	1.153110454	0.302208661	-1.077509962	0.360753886
Pigyl 66268	1.153105171	0.191516606	-1.046125705	0.30708359
Heph 15203	1.153024677	0.422186822	-1.663186782	0.253509159
Cdkn1b 12576	1.152897888	0.225860238	1.311565417	0.070227029
Ift74 67694	1.152871266	0.330895973	1.290577351	0.242177014
Ak4 11639	1.152830256	0.204293294	1.152830256	0.204293294
Smndc1 76479	1.152735978	0.286424268	1.064160638	0.409600658
Tiprl 226591	1.152683772	0.146654626	1.140238104	0.119680473
Aass 30956	1.152570097	0.309987163	1.390726403	0.130387816
Mef2d 17261	1.152495196	0.304971442	1.174122496	0.276934983

Tbc1d8b 245638	1.152375961	0.377418904	1.521317836	0.149729106
Vamp8 22320	1.152347821	0.22647601	1.029645966	0.431791392
Dock4 238130	1.15229137	0.311044225	1.300049053	0.111134036
Dhps 330817	1.152291368	0.132844251	1.00235009	0.489134741
Lcor 212391	1.152137571	0.425454842	-1.614048851	0.284375762
Efna5 13640	1.152063638	0.205023312	1.079351604	0.33334727
1700030J22Rik 69528	1.152006208	0.388445953	1.152006208	0.388445953
Napsa 16541	1.151815193	0.411039032	1.916350438	0.182743304
Gaa 14387	1.151801279	0.055390277	1.151801279	0.055390277
Mfap3 216760	1.151748925	0.122951198	1.252457366	0.025391592
2210010C17Rik 70080	1.151526102	0.380952436	1.650881959	0.154686998
Sos2 20663	1.151369088	0.359803619	1.233218732	0.303312009
Rnf168 70238	1.15135242	0.207714434	1.154611902	0.121747615
2810403D21Rik 69964	1.151218104	0.400387548	1.151218104	0.400387548
Adh6-ps1 639769	1.151162081	0.305397146	-1.162378606	0.239477405
Gcc1 74375	1.151037315	0.182391239	1.034015682	0.383151451
G6pc 14377	1.151007545	0.274037951	1.064312321	0.394797327
Cnot8 69125	1.150936069	0.083361293	1.068445197	0.159274431
LOC100504473 100504473	1.150894388	0.430487538	2.576568707	0.106702947
Pparg 19016	1.15088923	0.293701391	1.15088923	0.293701391
Cryz1 66609	1.150805703	0.215852189	1.272482765	0.053996072
Esam 69524	1.150711804	0.175655103	1.059971999	0.328439467
Etohi1 626848	1.150623729	0.416440009	-1.407238997	0.319263545
Zfp580 68992	1.150535616	0.296061387	1.616834636	0.004819577
Srpk1 20815	1.150382119	0.156933755	1.345290454	0.006590245
Prdx4 53381	1.150273689	0.093439211	1.150273689	0.093439211
E330033B04Rik 319722	1.150229946	0.34780849	1.020818976	0.476145749
Atic 108147	1.150214756	0.019100404	1.115890919	0.03911489
Tcf7l2 21416	1.150184632	0.233505876	1.476805727	0.001312228
Gtf2h3 209357	1.149901225	0.166920515	1.053200566	0.338156921
Cnr2 12802	1.149808175	0.381493918	1.644864333	0.154547274
Ckap4 216197	1.149756151	0.241031984	1.267699622	0.036938109
Slc30a9 109108	1.149586158	0.037097662	1.215659659	0.003033565
1700047I17Rik2 100101807	1.149492227	0.305742056	-1.205843392	0.123638566
Chst15 77590	1.149486002	0.178056572	1.2903516	0.030521837
Vamp4 53330	1.149475472	0.345007029	1.2819547	0.264378606
Atp1a2 98660	1.149367457	0.354669091	1.191949507	0.273889597
Xpnp1 170750	1.149317698	0.074792067	1.070477321	0.145582351
Exosc9 50911	1.149308754	0.078341409	1.149308754	0.078341409
Anp32b 67628	1.149143936	0.160820272	1.149143936	0.160820272
Sp2 78912	1.148946012	0.252633255	1.294856266	0.114937715
Rbm39 170791	1.148863664	0.2566526	1.112561476	0.196730077
Wdr82 77305	1.148688329	0.168119267	1.175179258	0.031167568
Slc29a3 71279	1.148686174	0.211083582	-1.04225567	0.378859139
Zfp367 238673	1.148586721	0.380241335	2.023635437	0.032752292
Cd27 21940	1.148374263	0.342977156	-1.26938726	0.189216339
Eml4 78798	1.148320134	0.223104508	1.148320134	0.223104508
Zfp280c 208968	1.148136411	0.316432902	1.309933983	0.148653935
Morn1 76866	1.148074205	0.201780852	1.148074205	0.201780852
Nudt4 71207	1.147880325	0.149922018	-1.003016843	0.487691114
Rps18 20084	1.147796218	0.247494157	-1.103808775	0.221336896
Metap1 75624	1.147680411	0.128042182	1.147680411	0.128042182
Manf 74840	1.147546987	0.300922162	1.345909771	0.059520841

Fbxl4 269514	1.147545327	0.231743279	-1.082771844	0.258045092
Tank 21353	1.14749013	0.309248619	-1.193182823	0.185740966
Smad7 17131	1.147475348	0.282627374	1.30046826	0.093570855
Rabac1 14470	1.147469858	0.228167097	-1.077817808	0.266112061
Pitpna 18738	1.147278383	0.037906978	1.238365146	0.001224966
Ticam2 225471	1.147262611	0.409276791	1.147262611	0.409276791
Rtcd1 66368	1.147247867	0.271168657	-1.001060614	0.497937235
D930014E17Rik 57373	1.147173058	0.240458063	1.1329362	0.219793462
1810008A18Rik 108707	1.147095631	0.045152134	1.181709484	0.022220303
Ppp3cb 19056	1.147094067	0.243247833	1.370295576	0.023640302
Ube2g2 22213	1.146991867	0.128812193	1.218949174	0.058184933
Rpl12 269261	1.146780407	0.193425371	1.241267495	0.066158631
Synrg 217030	1.146747203	0.103256654	1.058061795	0.212095793
Renbp 19703	1.146700664	0.392245954	-1.008682268	0.490291882
St14 19143	1.146683414	0.354306866	1.146683414	0.354306866
Txnip 56338	1.146658803	0.320872325	1.40486523	0.027058171
Fis1 66437	1.146652363	0.253451855	1.115498683	0.231963044
B3gat3 72727	1.146626863	0.114697486	1.068034916	0.239492441
Pef1 67898	1.146612669	0.072909497	1.146612669	0.072909497
Usp14 59025	1.146325399	0.194757852	1.280972096	0.050088798
Trim12c 319236	1.146198681	0.363380635	1.831209364	0.027928897
Rpl14 67115	1.145951889	0.336231052	-1.151888494	0.270239397
Pik3c2a 18704	1.145707543	0.330411407	1.282224412	0.159462641
Cisd1 52637	1.145553251	0.070653377	1.076357976	0.142242834
Sft2d3 67158	1.145461014	0.318802304	1.440978688	0.090072852
Gpaa1 14731	1.145384349	0.181629971	1.145384349	0.181629971
Lbh 77889	1.145240221	0.252759473	1.119377337	0.171593383
Chtf8 214987	1.145085352	0.138428473	1.145085352	0.138428473
Zmynd15 574428	1.14505623	0.267237934	-1.031001786	0.426185194
Abhd4 105501	1.144981009	0.031513073	1.144981009	0.031513073
0610007L01Rik 71667	1.144961907	0.055709044	1.20764869	0.011276811
Fam120b 67544	1.144839514	0.087984046	1.221247667	0.019095162
Capn1 12333	1.144815551	0.075825706	1.194300156	0.037333779
Dhx35 71715	1.144810795	0.35470205	1.609090033	0.071056997
Ccne2 12448	1.144753102	0.422299942	2.126739986	0.17308943
D430019H16Rik 268595	1.144436299	0.365012227	1.780720553	0.042091528
Samm50 68653	1.144365379	0.108445708	1.16789019	0.09471146
Mpv17l2 234384	1.144167044	0.177634255	-1.009504641	0.466316061
Ddx28 71986	1.14406509	0.191303223	1.14406509	0.191303223
2310030G06Rik 66952	1.144052767	0.151660953	1.144052767	0.151660953
Ccl21c 65956	1.144025586	0.391061623	1.138958497	0.361880689
Gm10591 100504239	1.144025586	0.391061623	1.138958497	0.361880689
Arpc3 56378	1.143942789	0.12561684	1.30128801	0.005237241
Foxred1 235169	1.143745245	0.168433428	1.232432059	0.04603072
Naa50 72117	1.143641405	0.128330051	1.143641405	0.128330051
Slc39a1 30791	1.143638147	0.113894953	1.112655793	0.118062444
Cacna1d 12289	1.143563005	0.249994897	1.143563005	0.249994897
Fam83d 71878	1.14348201	0.450025457	1	#DIV/0!
Tekt4 71840	1.14348201	0.450025457	1	#DIV/0!
C1ql1 23829	1.14348201	0.450025457	1	#DIV/0!
Spag5 54141	1.14348201	0.450025457	1	#DIV/0!
Nudt17 78373	1.14348201	0.450025457	1	#DIV/0!
5430427O19Rik 71398	1.14348201	0.450025457	1	#DIV/0!

Zfp872 619310	1.14348201	0.450025457	1	#DIV/0!
BC024582 414068	1.14348201	0.450025457	1	#DIV/0!
Ndufa6 67130	1.143476879	0.135858292	1.001551438	0.492395302
Hras1 15461	1.143414104	0.298434618	1.128748388	0.217907704
Hint1 15254	1.143400985	0.211927471	-1.062040118	0.286834604
Paqr3 231474	1.143379295	0.308831503	-1.000843117	0.498757991
Mtl5 17771	1.143260807	0.413969596	1.881281608	0.182743554
Exoc5 105504	1.143223752	0.285667422	1.143223752	0.285667422
H2-Q7 15018	1.143156813	0.096735321	1.23580479	0.010156905
Nrbp1 192292	1.143123872	0.140544215	1.054536436	0.296559001
Cno 117197	1.143069842	0.330839592	1.143069842	0.330839592
Lass5 71949	1.143066848	0.267008706	1.435849664	0.013010336
Slc17a9 228993	1.143040749	0.245983383	1.361964435	0.023816933
Med6 69792	1.142997705	0.33935336	1.062377199	0.428313441
Rbbp7 245688	1.142791516	0.153899709	1.068154596	0.286925005
Cmtm3 68119	1.142752314	0.207281152	1.212386229	0.140037366
Klhdc5 232539	1.142610491	0.262588306	-1.010800741	0.475512676
BC039771 408057	1.142564442	0.42572511	1.047677258	0.477214915
Ofd1 237222	1.142365734	0.304038421	1.399286551	0.083838302
Arl6ip6 65103	1.142355558	0.304081113	1.142355558	0.304081113
Tcta 102791	1.142322477	0.217434885	-1.057014325	0.321258859
Nek3 23954	1.142290982	0.345202243	1.191288201	0.291516057
Cd3eap 70333	1.142021653	0.134701682	1.058106697	0.282115022
Nkiras1 69721	1.141973969	0.148527595	1.141973969	0.148527595
Ufd1l 22230	1.141856707	0.079100598	1.141856707	0.079100598
H2-Eb1 14969	1.141849202	0.358026813	-1.124787212	0.225315482
D030028A08Rik 319371	1.141637662	0.358091205	1.696863396	0.043701708
Polr2k 17749	1.141545389	0.367610833	1.141545389	0.367610833
Pgk1 18655	1.141534555	0.046666514	1.141534555	0.046666514
Pbx3 18516	1.141414281	0.343193161	1.142644292	0.231256067
Bst2 69550	1.141382965	0.294360265	-1.062380995	0.369845513
Pelo 105083	1.14137083	0.242249534	-1.080163319	0.284066555
Ywhae 22627	1.141296555	0.066203511	1.137384019	0.025665964
Sass6 72776	1.141255913	0.415858729	2.253962154	0.101904273
Nemf 66244	1.141255484	0.315243511	1.509224741	0.04398915
Ctgf 14219	1.141077995	0.29004417	1.39387828	0.057603552
Mrp63 67840	1.141075686	0.199948929	1.137015464	0.126475126
Ppia 268373	1.140993754	0.221290958	1.129926286	0.185050493
Supt4h1 20922	1.140837164	0.155773604	1.140837164	0.155773604
Chd1 12648	1.140725233	0.301850813	1.360284418	0.10977089
Itga9 104099	1.140667979	0.254910015	-1.047557847	0.325834542
Eef1b2 55949	1.140552289	0.193650158	1.055271417	0.354762848
Tars 110960	1.140511011	0.020965159	1.105248733	0.041607716
Fbxw9 68628	1.140463	0.132033653	1.140463	0.132033653
Enox 70252	1.140405521	0.372629303	1.140405521	0.372629303
Ocln 18260	1.140356193	0.153074661	1.187029263	0.098600762
Trmt1 212528	1.140300376	0.141910198	1.170676567	0.036936761
Ilkap 67444	1.13983299	0.268555941	-1.030048906	0.426798453
Rpl27a 26451	1.139773225	0.259110267	-1.001282127	0.497078481
4921530D09Rik 77058	1.139624595	0.434856741	-1.591003234	0.290870527
Dnajb9 27362	1.139597204	0.228418344	1.205750357	0.103702524
Gtpbp6 107999	1.139578929	0.164063219	1.031325287	0.36226935
Clec7a 56644	1.139478886	0.348724389	1.339368729	0.153620058

6330512M04Rik 320802	1.139394636	0.398028385	1.632142574	0.188564188
Sugt1 67955	1.139247739	0.202636829	1.028694215	0.407181186
Snrpd3 67332	1.139178828	0.149313849	1.223422969	0.031109717
Tardbp 230908	1.138889692	0.119038136	1.138889692	0.119038136
Hivep2 15273	1.138783108	0.346606718	1.380764204	0.179114075
App 11820	1.138733101	0.267870133	-1.119243958	0.211914655
Nle1 217011	1.138688088	0.292228058	-1.004682176	0.491789277
Schip1 30953	1.138631011	0.431458821	1.366291578	0.378497556
Utp18 217109	1.138627625	0.299988487	1.006445389	0.488353325
Polr1c 20016	1.138580528	0.101815657	1.172917677	0.068703043
Ptcd3 69956	1.138316728	0.130718032	1.138316728	0.130718032
Zfp750 319530	1.137970336	0.206327181	1.258602275	0.028519318
Tmem231 234740	1.137816447	0.434532488	-3.010586893	0.023511985
Myom3 242702	1.137688449	0.42284563	-1.576144205	0.250276096
Lpcat4 99010	1.137676271	0.281705407	1.255866405	0.135973942
Slx4 52864	1.137594533	0.187585739	1.134455174	0.043340438
Trmt61a 328162	1.137281611	0.179109476	1.326545761	0.010906753
Zbtb32 58206	1.137165207	0.389523198	1.355646318	0.233074117
Prkaa1 105787	1.137118469	0.328321559	1.311379102	0.193097228
Manbal 69161	1.137107743	0.249398231	1.137107743	0.249398231
Chchd1 66121	1.137095002	0.289441908	1.027307261	0.450521303
Aldh1a3 56847	1.137082	0.437865718	-1.085993843	0.458354237
Ahctf1 226747	1.137044954	0.204775504	1.267302189	0.054047309
2010109K11Rik 72123	1.136970067	0.348497052	1.136970067	0.348497052
Rbm17 76938	1.136969944	0.13061847	1.225274654	0.032078063
Braf 109880	1.136965852	0.30561685	1.136965852	0.30561685
Pea15a 18611	1.136835854	0.233647935	1.213269552	0.157376594
Rbbp4 19646	1.136757484	0.018254595	1.064453107	0.038657409
Ap2s1 232910	1.136639579	0.25279171	-1.094515811	0.231073154
Zfp513 101023	1.136471074	0.169839542	1.248833635	0.008378559
Baat1 231841	1.136018631	0.194612994	1.136018631	0.194612994
Tmed9 67511	1.135612491	0.196331105	1.274107861	0.0333333
Rpl34 68436	1.13560286	0.277583029	1.00784323	0.484854092
Ndufb3 66495	1.135488615	0.067447637	1.187771983	0.023654003
4833420G17Rik 67392	1.135469748	0.152051878	1.223613218	0.024275235
Trub2 227682	1.135396426	0.215113652	1.025552301	0.427403852
Pop4 66161	1.135094551	0.229193166	1.220289739	0.13915485
Gpsm1 67839	1.135033291	0.382420295	1.135033291	0.382420295
Serf2 378702	1.134925083	0.193981058	-1.054821246	0.238697633
Tsku 244152	1.134830149	0.269854534	1.018719169	0.463106146
Nox4 50490	1.134803062	0.399742787	1.352691087	0.256582045
Exosc2 227715	1.134761929	0.145002443	1.286434362	0.005283689
lws1 73473	1.134750869	0.332461286	1.292600194	0.16535684
Galnt10 171212	1.134723437	0.328721029	-1.207999951	0.163658864
Fmnl1 57778	1.134721658	0.362315921	-1.188351331	0.273069579
Coro1a 12721	1.13459522	0.330498831	-1.236858558	0.126946476
Ccni 12453	1.134571622	0.284148776	1.005553628	0.489638542
Fxyd3 17178	1.134500912	0.414778359	-1.093903908	0.433766023
Gm10319 381806	1.134429553	0.395996908	1.134429553	0.395996908
2810001G20Rik 66456	1.134400018	0.349700474	1.134400018	0.349700474
Bbs10 71769	1.13434921	0.387329329	1.13434921	0.387329329
Mphosph10 67973	1.134020669	0.126801315	1.077765006	0.23371093
Dstn 56431	1.133718428	0.128124527	1.091833631	0.139251205

Eif1ax 66235	1.133711491	0.263197957	1.173678184	0.050474629
Rybp 56353	1.13363513	0.305672015	1.376731671	0.080456687
Kbtbd2 210973	1.13357922	0.293202097	1.13357922	0.293202097
Pkn2 109333	1.133550085	0.344608774	1.026555923	0.449012605
Rab17 19329	1.133489459	0.259939142	1.082164271	0.201085125
Timm22 56322	1.133300377	0.177573046	1.062268697	0.314469406
Pthr2 217057	1.133238285	0.274434874	1.133238285	0.274434874
Ddx31 227674	1.133229372	0.281462625	1.043134144	0.426151837
Aimp2 231872	1.133154626	0.186129161	1.04150057	0.362058559
Lmbrd1 68421	1.132933647	0.135524893	1.201228215	0.010309917
Ascc1 69090	1.132924717	0.331237825	1.130699502	0.304390108
Aamp 227290	1.132771557	0.073514479	1.030448708	0.228217483
Mapk8ip1 19099	1.132758356	0.259390071	1.190673277	0.138375942
Usp37 319651	1.1326776	0.258876597	1.1326776	0.258876597
Gcc2 70297	1.132589541	0.33928367	1.675189478	0.007733013
Pop1 67724	1.132580746	0.302789179	1.053684205	0.4024549
Scyl2 213326	1.132336793	0.352586588	1.724929901	0.013543739
Eif1 20918	1.132261383	0.136836261	1.11872472	0.059133129
Mycbp 56309	1.132126037	0.280565058	-1.00377231	0.491303669
Arl8a 68724	1.13211927	0.157929076	1.13211927	0.157929076
Paip1 218693	1.132008919	0.271469799	-1.05069694	0.356014088
Ndufs3 68349	1.131913732	0.152764156	1.067929014	0.277898424
Xpo7 65246	1.131889737	0.189046524	1.332823383	0.002526265
Isy1 57905	1.131619868	0.113087708	1.157318321	0.091754731
2610034B18Rik 70420	1.131538246	0.192368774	1.025532747	0.409937697
Apex1 11792	1.131510177	0.180613253	1.105652687	0.138621041
Dhx9 13211	1.13146264	0.315904289	-1.04510231	0.42503072
Pik3ip1 216505	1.131360416	0.408329283	1.820585212	0.140133306
Ddhd2 72108	1.131356235	0.247580194	1.220033334	0.027624213
Fxr2 23879	1.131339461	0.127742847	1.179887352	0.064675842
Slc43a3 58207	1.131272662	0.279551748	1.043583551	0.41791025
Shoc2 56392	1.131255939	0.161072331	1.212455762	0.06366507
1700020O03Rik 70373	1.13100131	0.320573485	1.276307096	0.15333604
Plcg2 234779	1.130967943	0.41268354	1.762413835	0.177476566
Senp2 75826	1.130916548	0.183214106	1.216935388	0.079847042
Slc25a15 18408	1.130800647	0.197282054	1.130800647	0.197282054
9530008L14Rik 109254	1.130793228	0.033980373	1.171260869	0.006057155
Rasgrp1 19419	1.130785223	0.417799498	1.382707879	0.287824254
Sec22a 317717	1.130732397	0.25026095	1.083161244	0.245731811
Pkn3 263803	1.130710176	0.352001452	1.279311313	0.210354229
Taf10 24075	1.130635234	0.191416885	1.130635234	0.191416885
Psmc2 19181	1.130450208	0.154541414	1.297282532	0.004599688
2900064A13Rik 73024	1.130446857	0.054632528	1.171857246	0.023568047
Agxt 11611	1.130439167	0.353129068	-1.206270439	0.163383557
Tom1 21968	1.130408406	0.249964031	-1.09464345	0.166571757
Gin1 252876	1.130404299	0.35308288	-1.075445234	0.409636013
Isg20 57444	1.130366171	0.3109783	-1.011507207	0.464811901
Rab33b 19338	1.130356415	0.255918756	1.063371648	0.3450662
Trpt1 107328	1.130321287	0.270879082	1.24207204	0.059926649
Pσμα2 19166	1.13019906	0.152305726	-1.004910803	0.477307752
Orai1 109305	1.130172643	0.302862329	1.050256033	0.352598907
Kat5 81601	1.130167353	0.218732237	1.130167353	0.218732237
Chmp7 105513	1.13014507	0.103526023	1.247546134	0.002643431

Slc27a4 26569	1.1301229	0.095052187	1.208403487	0.012889648
Gm16379 100040259	1.130115549	0.160693977	1.038876534	0.344439687
Lym7 75530	1.129924834	0.289062559	-1.06113203	0.344642346
Snap23 20619	1.129699072	0.188044944	1.298697276	0.01679915
Haus4 219072	1.129630135	0.191230672	-1.022077352	0.417750454
Rsph3b 100037282	1.129586656	0.288868752	1.084236263	0.298555753
Ero1lb 67475	1.129551913	0.213788692	1.129551913	0.213788692
Spast 50850	1.129519797	0.25558026	1.129519797	0.25558026
Srp54b 665155	1.12920609	0.205148667	1.091824391	0.181486743
Mapk8 26419	1.129164172	0.32023691	-1.015122073	0.464977129
Jmjd6 107817	1.129133132	0.146184829	1.048595646	0.30016699
Mrpl24 67707	1.12911917	0.152902014	1.041519365	0.321832629
Atp6v0e 11974	1.128981398	0.168659169	1.128981398	0.168659169
Micalcl 100504195	1.128943925	0.39412171	1.445613809	0.232648402
Atp6v0d1 11972	1.128878522	0.107804293	1.01941659	0.394057832
Chd2 244059	1.128526764	0.316926909	1.011497587	0.482760409
Rpl8 26961	1.128514613	0.293768941	-1.035323551	0.426428457
Anxa3 11745	1.128476551	0.343033323	1.579355375	0.040664712
Eif4h 22384	1.128287379	0.052040467	1.180940503	0.004210742
Abca6 76184	1.128277791	0.181956387	1.126500485	0.081656236
Mafk 17135	1.128194351	0.176481673	1.227377517	0.051038731
Rab2a 59021	1.128152921	0.036828917	1.095477126	0.075885566
Pwp2 110816	1.12797424	0.246740558	1.01823287	0.41130735
Rap1b 215449	1.127959354	0.298410619	1.127959354	0.298410619
Acot12 74156	1.127953019	0.219238971	1.21794313	0.112743624
Ttc35 66736	1.127934514	0.29276179	1.02079961	0.460012465
Naa40 70999	1.127885547	0.283724049	1.303634778	0.09678833
Impdh2 23918	1.127871259	0.275267934	-1.133178768	0.11956072
Trim3 55992	1.127778135	0.217424499	1.315658644	0.017158331
AF251705 140497	1.127732188	0.373226109	-1.163697053	0.327287398
Atp8b2 54667	1.127725377	0.37282551	1.470824381	0.155181122
Vdac3 22335	1.127694038	0.097062363	1.127694038	0.097062363
Cxcl16 66102	1.127637845	0.306057524	1.275544137	0.165614541
Rspry1 67610	1.12760233	0.332233783	1.128965973	0.305372746
Tbpl1 237336	1.12758037	0.224108367	1.12758037	0.224108367
Agmo 319660	1.127550712	0.298993849	1.127550712	0.298993849
Iqcc 230767	1.127346943	0.350169816	1.127346943	0.350169816
Slc15a4 100561	1.1273229	0.141578019	1.002403681	0.483833238
Sepw1 20364	1.127322799	0.341468119	1.052445057	0.39527639
Ndn12 66647	1.127263403	0.25989727	1.042447354	0.413616691
Dhx33 216877	1.127229807	0.214505687	1.006956549	0.474781968
Psm4 19185	1.127202226	0.19467804	1.183007454	0.117194886
Lphn3 319387	1.127181484	0.439276142	1.264185714	0.40907038
Samd14 217125	1.127145741	0.35555491	1.115705188	0.351482659
Fbxo31 76454	1.127107811	0.167819826	1.044712415	0.33307028
Hs1bp3 58240	1.127106239	0.217125382	1.127106239	0.217125382
Usf2 22282	1.127055432	0.130235103	1.042053208	0.284019516
Acot2 171210	1.126977944	0.281024259	-1.130994779	0.167623956
Frmd6 319710	1.126928465	0.38559891	1.600234848	0.120697043
Fbxw2 30050	1.126906121	0.034477489	1.138397123	0.002141452
Rab31 106572	1.126900757	0.366180208	1.126900757	0.366180208
Tnks 21951	1.126850605	0.357204412	1.171926685	0.292126327
Smchd1 74355	1.126769704	0.37758527	1.134260911	0.351395001

Arpc1b 11867	1.126707304	0.241534803	1.018499786	0.452457497
Vasn 246154	1.126673505	0.205314171	1.091373736	0.166918566
Gde1 56209	1.126670784	0.131354162	1.051449647	0.272289563
Mafg 17134	1.126648583	0.27035923	-1.097138172	0.263977721
Ngrn 83485	1.126616806	0.18617372	-1.023915403	0.40554771
Cnot6l 231464	1.126612428	0.323081628	1.120394382	0.318559183
Fndc3b 72007	1.126558909	0.404232826	1.887919501	0.0780449
Mthfr 17769	1.126554434	0.310055044	1.126554434	0.310055044
Ppp2r2d 52432	1.126516068	0.221966551	1.013670023	0.457115156
Ube2e2 218793	1.126511744	0.23747899	1.126511744	0.23747899
Hddc2 69692	1.126476661	0.377366391	1.347415124	0.180170065
Psm13 23997	1.12637904	0.192778476	1.12637904	0.192778476
Hspe1 15528	1.126344568	0.084196427	1.064477405	0.173311522
Cox7a2l 20463	1.126277324	0.236436385	-1.012711504	0.454636332
Atp5o 28080	1.125600851	0.255991862	1.031968981	0.429962476
Tuba4a 22145	1.125555766	0.250311023	1.086542331	0.277659836
Guca1b 107477	1.125447215	0.423080006	1.73392566	0.215742312
Cdk10 234854	1.125330762	0.262296254	1.009005369	0.478988323
Eapp 66266	1.125256015	0.299702658	1.357535852	0.058964696
Pikfyve 18711	1.125224923	0.317701436	1.125224923	0.317701436
Hpcal1 53602	1.125151473	0.196158081	1.125151473	0.196158081
Ccdc28a 215814	1.125099099	0.247734087	1.368087338	0.011691535
Cyr61 16007	1.125090783	0.339952673	-1.293227369	0.014941387
St6galnac3 20447	1.125067139	0.415426784	1.125067139	0.415426784
Crip2 68337	1.125028469	0.154752341	1.125028469	0.154752341
Blm 12144	1.124832446	0.400669909	1.639626697	0.153900282
Atl2 56298	1.124580009	0.27288748	1.119462569	0.19600951
Brp44l 55951	1.124530528	0.202003683	1.01652205	0.438332657
Arl15 218639	1.124450833	0.363870125	1.002809207	0.496605638
Gm5424 432466	1.124447973	0.096886941	1.07300761	0.191253667
Dym 69190	1.124347814	0.207910665	1.049631278	0.364917036
Kit 16590	1.124345268	0.360944178	1.709276021	0.006639052
2310039H08Rik 67101	1.124190911	0.239666556	1.244364941	0.047910727
Atg4d 235040	1.12410999	0.208590939	1.039565974	0.385988293
Nvl 67459	1.124105852	0.251885653	1.345124441	0.035405022
Sema4c 20353	1.124099816	0.282873478	1.18252117	0.044674017
D17Wsu92e 224647	1.124090428	0.040170743	1.168831064	0.009108722
Fam105b 432940	1.124023293	0.225538847	1.046719931	0.376481402
Prdx3 11757	1.124020898	0.210385835	1.277339128	0.023374027
Ubl4 27643	1.123954699	0.123292611	1.0117767	0.437667716
Actr10 56444	1.123887562	0.04024881	1.151052394	0.020933159
Arhgap10 78514	1.123872558	0.31764132	1.262632556	0.145567062
Htatsf1 72459	1.123871506	0.285949529	1.063082908	0.365691742
Avpr1a 54140	1.12385988	0.188098404	1.029312907	0.386303504
Tox 252838	1.123785428	0.367111013	1.390575844	0.181635837
Usp38 74841	1.123701284	0.28556311	-1.089221265	0.31042962
Gars 353172	1.123695004	0.170394627	1.053596116	0.322761316
Mfn1 67414	1.123681762	0.103600004	1.234251986	0.007203512
Gtf2b 229906	1.12359977	0.326557667	-1.032320139	0.440583913
Vps8 209018	1.123504327	0.287838089	1.067782402	0.287196272
Hsd17b11 114664	1.123476634	0.169064229	1.078662149	0.268540644
Snx21 101113	1.12346875	0.266558556	1.295743301	0.062954804
Hspd1 15510	1.123444355	0.194088438	1.132050637	0.125824777

Cox11 69802	1.123345746	0.326099419	1.240406723	0.223942332
Cep97 74201	1.123339303	0.315051786	1.206438429	0.159910425
Osgep 66246	1.123226551	0.325887262	-1.175021267	0.140960969
Smagp 207818	1.123228758	0.203025227	1.150306933	0.095710491
Naga 17939	1.123208852	0.265073791	1.097664113	0.220069494
Hadhb 231086	1.123201248	0.127485916	1.085374575	0.146086021
Rps20 67427	1.122856963	0.317413827	-1.200904043	0.097621772
Tspyl4 72480	1.122784242	0.402918408	1.122784242	0.402918408
Fbxo32 67731	1.122735618	0.398775667	1.122735618	0.398775667
Sfpq 71514	1.122590233	0.269387203	1.00453315	0.489546964
Wdr12 57750	1.122583714	0.191797913	1.222334826	0.059108249
Aacs 78894	1.122459437	0.25218221	1.122459437	0.25218221
Csgalnact2 78752	1.122371844	0.410497785	1.331675987	0.247895672
Mtttp 17777	1.122317225	0.186310296	1.122317225	0.186310296
Gorab 98376	1.122236704	0.399060604	-1.155352767	0.38056666
Rpgrip1 77945	1.122115712	0.266602609	1.028975688	0.438539065
Ebna1bp2 69072	1.122070197	0.174429979	1.122070197	0.174429979
Pacs2 217893	1.121768422	0.310047451	1.121768422	0.310047451
Ccl27a 20301	1.121754161	0.377451264	1.416634455	0.185718155
Hoxb7 15415	1.121607891	0.424993464	1.577793729	0.260321642
Ahcy 269378	1.121397458	0.183165645	1.044443693	0.352226223
Msmpl 100039672	1.121348203	0.380079534	1.043357472	0.439073508
Cct7 12468	1.121274422	0.130750211	1.121274422	0.130750211
Parn 74108	1.121206693	0.173185496	1.289083596	0.005132453
Azi2 27215	1.12116008	0.167419147	1.188227319	0.080933827
Psma1 26440	1.121069361	0.211779132	1.079963544	0.302402263
Arpc4 68089	1.121023205	0.270804065	-1.015083124	0.461426035
Grb10 14783	1.120843348	0.392875511	1.88970882	0.038412476
1110065P20Rik 68920	1.120840377	0.240374976	1.052724207	0.372818074
Plg 18815	1.120805499	0.234588837	-1.091186899	0.046241758
Rps15 20054	1.120568444	0.356954548	-1.132435868	0.316393068
Abcc1 17250	1.120528292	0.411915146	-1.062160652	0.450449683
2010016I18Rik 69206	1.120434388	0.439605144	2.617043494	0.129315134
Prdx2 21672	1.120279702	0.234090047	-1.001946053	0.493348415
Med4 67381	1.120246197	0.250474216	1.00677349	0.481655694
Kif3b 16569	1.120094525	0.253232674	1.342688548	0.028954104
Dip2b 239667	1.12007934	0.307225196	1.022259975	0.462722336
Prickle1 106042	1.120045863	0.328401967	1.342555914	0.117521122
Myct1 68632	1.120010943	0.364673381	1.314094304	0.222526232
Adam15 11490	1.119764232	0.319376267	-1.102153985	0.262501137
Timm17a 21854	1.11974161	0.262932221	1.214579022	0.152632781
Fam81a 76886	1.119738351	0.369593556	1.452863561	0.131267206
Nagk 56174	1.119716107	0.195629531	1.133005654	0.122695438
4930412F15Rik 242408	1.119592667	0.250954854	-1.091553481	0.189306101
G0s2 14373	1.119586107	0.348655589	1.119586107	0.348655589
Pnpla3 116939	1.119507957	0.445737271	3.579326525	0.091893115
Nol11 68979	1.11948959	0.297627243	1.331299583	0.062192149
Mttr2 77116	1.119379175	0.338608391	1.011851938	0.477567804
Tbl1xr1 81004	1.11937854	0.138251627	1.096170878	0.090496865
Cd276 102657	1.119294762	0.408518471	2.286181103	0.004495831
Ncapd3 78658	1.119264098	0.367736782	-1.349397496	0.074693571
Zbtb33 56805	1.119165167	0.399645383	2.103906183	0.00438707
Ctns 83429	1.119137347	0.204610943	1.036972844	0.385283508

Rpl22 19934	1.119110865	0.247978939	-1.015411375	0.447896178
Slc2a1 20525	1.119082622	0.30390884	1.035869276	0.395328644
Rps27 57294	1.119060447	0.311040551	-1.052897893	0.392509035
Bad 12015	1.118918752	0.27940989	-1.029676406	0.422627462
Rragc 54170	1.118734581	0.112511213	1.017378603	0.401600656
Ddx21 56200	1.118574801	0.226267122	1.025400072	0.420565479
Bcl2l14 66813	1.118513314	0.422201218	-1.338962617	0.313846823
Orc6 56452	1.118404163	0.333340935	-1.07228766	0.382604006
Gm608 207806	1.118383699	0.28878112	1.1708916	0.22842387
Pgp 67078	1.118243454	0.233964448	1.039661254	0.398641504
Rnf34 80751	1.118207547	0.373267431	-1.143480411	0.335881397
Tspo 12257	1.118050089	0.183212981	1.052335486	0.332973026
Gm5077 317677	1.118049184	0.423957991	-1.618448589	0.16183379
Stard3nl 76205	1.117825313	0.301538995	1.225361494	0.157183738
Frg1 14300	1.117787005	0.238682914	1.019263421	0.446321757
Psen2 19165	1.117738721	0.113849607	1.055192856	0.237408741
Snx17 266781	1.117726314	0.140644404	1.194380791	0.036431885
Ube2b 22210	1.117652196	0.129614987	1.087462109	0.078167177
Mug1 17836	1.117620966	0.280179348	1.117620966	0.280179348
1110002N22Rik 68550	1.117508429	0.284603896	1.117508429	0.284603896
Gart 14450	1.117459361	0.089957597	1.157538003	0.037711576
Fam59a 381126	1.117364344	0.262585933	1.150251563	0.08024772
Tspan5 56224	1.11728169	0.394744239	1.11728169	0.394744239
Lias 79464	1.116998424	0.190651982	-1.023243939	0.404806671
B4galt4 56375	1.116657996	0.436295632	2.111254404	0.170969182
Alas2 11656	1.116627271	0.347518366	-1.07671342	0.387910117
Mysm1 320713	1.116442483	0.251041472	1.116442483	0.251041472
Hspa8 15481	1.116285431	0.263206719	1.116285431	0.263206719
6330549D23Rik 229613	1.116273293	0.378167839	-1.154205059	0.329859314
Tuba1b 22143	1.116217616	0.286363576	1.025391405	0.404966378
Fam40a 229707	1.116149228	0.155408477	1.116149228	0.155408477
Bbs1 52028	1.116062518	0.351482078	1.36362387	0.139292471
Ccdc25 67179	1.116031925	0.205630213	1.281554432	0.020208186
Slco1a4 28250	1.115989677	0.270258396	1.149381171	0.111316054
Psph 100678	1.115858018	0.342847513	1.058102776	0.406316515
2410075B13Rik 223648	1.115650859	0.387097272	-1.155675184	0.34804895
Dis3l2 208718	1.115648282	0.186599413	-1.020370945	0.412379223
Dvl3 13544	1.115572925	0.323440355	1.115572925	0.323440355
Bik 12124	1.115465594	0.315349184	1.250122381	0.13206427
Egfl7 353156	1.115354783	0.210849052	1.024275631	0.418163534
H2-D1 14964	1.115279008	0.08370237	1.14373648	0.052251163
Fam195a 68241	1.11523235	0.174862143	1.169869475	0.086805188
Arhgap18 73910	1.115104739	0.359943233	1.115104739	0.359943233
Ifi271l 52668	1.115032652	0.309497583	-1.035059837	0.42948865
Zfp13 22654	1.114999905	0.321225769	1.354218962	0.069816053
Ddx39 68278	1.114837619	0.154939717	1.044991965	0.314803552
Stxbp3a 20912	1.114780926	0.328626588	1.251508524	0.153969018
Tex10 269536	1.114774771	0.376983748	1.35050973	0.210628965
Dynl1f 100040531	1.11472948	0.420408084	-1.317860292	0.311196402
Nkiras2 71966	1.114539216	0.208182502	1.114539216	0.208182502
Pex19 19298	1.114454758	0.179664141	1.114454758	0.179664141
Wdr41 218460	1.114451773	0.209259398	1.114451773	0.209259398
Fermt2 218952	1.114343801	0.255466338	1.21905046	0.082421872

Vkorc1 27973	1.114326089	0.296069268	-1.038099467	0.409538045
Gp9 54368	1.114277986	0.453634384	-1.631371973	0.295028973
Rps6 20104	1.114173639	0.266657404	1.009026986	0.477752604
Ppp2cb 19053	1.114171567	0.175371322	1.114171567	0.175371322
Tmem160 69094	1.114163259	0.348082978	-1.11937974	0.301128474
Rhog 56212	1.114042397	0.248051346	-1.072988166	0.262373883
Tsnax 53424	1.1140324	0.150401646	1.252835875	0.005500249
Srp14 20813	1.114021567	0.219682017	1.207379773	0.089248871
A730017L22Rik 613258	1.114015152	0.22223204	1.300130135	0.016412587
Cdipt 52858	1.113942117	0.085624631	1.113942117	0.085624631
C3ar1 12267	1.113937709	0.404661566	1.113937709	0.404661566
Tmem179b 67706	1.113601304	0.230955892	1.217084403	0.087042649
2700078E11Rik 78832	1.113550619	0.064076085	1.113550619	0.064076085
Rnf14 56736	1.113370898	0.210497712	1.256332714	0.010000732
Hnrnpab 15384	1.113297047	0.141508401	-1.007634329	0.448625931
Rnf38 73469	1.113286736	0.312408653	1.339708392	0.059091975
Hopx 74318	1.113259339	0.244710339	1.294826331	0.021627083
Abhd8 64296	1.113216387	0.29153867	1.00422148	0.491139787
Dmwd 13401	1.113165944	0.143968259	1.051572965	0.281114075
Tlr4 21898	1.113146667	0.329843654	1.113146667	0.329843654
Dynlr1b 67068	1.113136559	0.17596249	1.113136559	0.17596249
Ubqln1 56085	1.113101122	0.120848356	1.123398994	0.038140885
Sox18 20672	1.113020661	0.320090204	1.113020661	0.320090204
4732416N19Rik 320737	1.112908246	0.459065259	1	#DIV/0!
Serbp1 66870	1.112797178	0.04949704	1.112797178	0.04949704
Riok2 67045	1.112738314	0.119439081	1.003316652	0.466348262
C030044B11Rik 68128	1.112689096	0.331480769	-1.089911959	0.323698684
Mfsd3 69572	1.11266982	0.231144357	1.11266982	0.231144357
Phax1 56698	1.112601183	0.25025659	1.111266186	0.197866713
Zfp930 234358	1.112529386	0.396557643	1.566439308	0.128662737
Tmem176b 65963	1.112472816	0.307782354	-1.075231844	0.301676224
Mtap7 17761	1.112444187	0.329940315	1.302889086	0.136418739
Rps21 66481	1.112415744	0.334878377	-1.222150605	0.071495105
Snhg12 100039864	1.112406147	0.363619154	-1.096180135	0.374759536
Rpl24 68193	1.112328832	0.33814535	1.122425971	0.275730149
Ptges2 96979	1.112320864	0.199455088	1.270154138	0.012067359
D17H6S53E 114585	1.112295769	0.284332904	1.235719106	0.13357643
Ndufs5 595136	1.112154691	0.2457132	1.040997218	0.318005002
Mxd4 17122	1.112091232	0.139435787	1.009465181	0.44757809
Mrpl33 66845	1.112003984	0.318195203	1.279192616	0.137570605
Fbxl18 231863	1.111967297	0.37903123	1.047810246	0.426725503
Timm8a1 30058	1.111870144	0.244679668	-1.066381531	0.268663788
Parvb 170736	1.111793898	0.282570035	1.013564124	0.470315749
Cdc20 107995	1.111781863	0.424618059	1.697935956	0.194810627
Sae1 56459	1.111719836	0.272720078	-1.104182711	0.17204154
5033406O09Rik 77675	1.111698799	0.315417191	1.043782112	0.407899506
Fkbp7 14231	1.11169118	0.420611024	1.11169118	0.420611024
Hspb8 80888	1.111642831	0.208319557	1.006822391	0.470038964
Armc10 67211	1.111547605	0.300094164	1.296857892	0.077816923
Gimap6 231931	1.111532038	0.198229461	1.182020416	0.07446177
Mrps33 14548	1.111467408	0.255757878	1.027543816	0.431644547
41157 18951	1.111460752	0.354699178	1.198983984	0.145100637
lfrd1 15982	1.111440442	0.389704514	-1.163753566	0.337600415

Lnpep 240028	1.111372744	0.443757077	1.756849872	0.229137739
Rc3h2 319817	1.111325098	0.318931643	1.439146289	0.004440595
Sec23ip 207352	1.111280243	0.265215155	1.322451204	0.034145373
Ercc2 13871	1.111189483	0.196088162	1.094532336	0.174687484
Ywhaz 22631	1.111151948	0.102851489	1.06999992	0.194230109
Spc25 66442	1.111050032	0.431829872	1.381064559	0.3272513
Csf2rb2 12984	1.111038738	0.369577768	1.438080927	0.109069492
Nudt16l1 66911	1.111026427	0.204231553	1.03250345	0.389789436
Mrpl2 27398	1.110941254	0.280369017	1.110941254	0.280369017
Chd1l 68058	1.110875851	0.319016132	1.051836516	0.414061508
Hbp1 73389	1.110737222	0.15434808	1.031372773	0.338773118
Fkbp1a 14225	1.110722167	0.083424829	1.110697497	0.118416443
Rargl 19411	1.11069834	0.300871492	1.268064432	0.11336814
Yap1 22601	1.110650847	0.184868977	-1.024541349	0.376288184
Gata4 14463	1.110523932	0.254498514	1.328072806	0.006060889
Cox17 12856	1.110459779	0.269773809	-1.006798861	0.481555411
Diablo 66593	1.110442724	0.115482643	1.088168549	0.110231179
Upf3a 67031	1.11032848	0.301243485	1.226192218	0.167765602
Lonrf3 74365	1.110280287	0.308837084	-1.021394559	0.450211712
Eif2s3x 26905	1.110244226	0.161439981	1.110244226	0.161439981
Cog3 338337	1.110218602	0.295369454	1.22738887	0.115495149
Gpbp1l1 77110	1.110212835	0.247124148	1.110212835	0.247124148
5430435G22Rik 226421	1.11020524	0.363989091	1.409851382	0.111472716
Avpi1 69534	1.110168754	0.251435241	-1.009356237	0.468817417
C330019G07Rik 215476	1.11011682	0.305173358	1.442592532	0.003741134
Rps17 20068	1.110093438	0.315532532	1.107498923	0.222618544
Gata6 14465	1.110035802	0.328466995	-1.06662476	0.371760016
lqcg 69707	1.110004634	0.272364279	1.00083027	0.497648125
Tab2 68652	1.109934233	0.338260967	1.230233836	0.190205395
Timm23 53600	1.109927272	0.088113515	1.058428815	0.181229465
Cct6a 12466	1.109564903	0.213667858	1.150569345	0.094470799
Tmsb10 19240	1.109420466	0.349264865	-1.261972821	0.052146408
Max 17187	1.10937131	0.14978965	1.099703302	0.077897626
Cntrob 216846	1.10934553	0.323450634	1.11142978	0.2970781
D030016E14Rik 320714	1.109282887	0.308752847	1.22959112	0.132381047
Ctsc 13032	1.109164749	0.147231891	1.191452472	0.023970835
Zc4h2 245522	1.10915968	0.445880011	-1.85002843	0.229359943
Mrpl17 27397	1.108999261	0.145266361	1.042031315	0.297809142
Rab11a 53869	1.108981417	0.159976124	1.108981417	0.159976124
Mcee 73724	1.108833856	0.157155781	1.168112336	0.07026117
Snrpd2 107686	1.10866929	0.305191602	1.14196801	0.200276239
Zfp809 235047	1.108584877	0.355771444	-1.158297685	0.209459607
Wipf1 215280	1.108406059	0.392973227	1.609669151	0.068368552
Pdhx 27402	1.1083711	0.203229039	1.194534415	0.072212822
2810025M15Rik 69953	1.108352721	0.33881455	-1.063705182	0.39047937
Gm16516 24082	1.10834004	0.425707244	1.89636615	0.122370382
Mbd5 109241	1.108314616	0.388015045	1.767515641	0.018534399
Hdac4 208727	1.108309651	0.428018349	1.9456525	0.12235555
Tacc2 57752	1.108279457	0.312163099	1.208697567	0.201849316
Jph2 59091	1.10822303	0.461153577	1	#DIV/0!
1700003F12Rik 75480	1.10822303	0.461153577	1	#DIV/0!
Ak7 78801	1.10822303	0.461153577	1	#DIV/0!
Adam22 11496	1.10822303	0.461153577	1	#DIV/0!

4930579F01Rik 67741	1.10822303	0.461153577	1	#DIV/0!
Nup62cl 279706	1.10822303	0.461153577	1	#DIV/0!
Tor1a 30931	1.108127369	0.148245383	1.041320862	0.307922352
2610029G23Rik 67683	1.108050836	0.34711603	1.431286558	0.031502504
Tnp02 212999	1.10796638	0.09879867	1.052159048	0.204989245
Phtf1 18685	1.107955115	0.39889533	-1.271399476	0.234119093
Lmo4 16911	1.107900834	0.339495744	1.107900834	0.339495744
Pfdn5 56612	1.10788102	0.32869675	-1.038714855	0.430136312
Mfng 17305	1.107870774	0.381319473	1.107870774	0.381319473
Ankrd27 245886	1.107756515	0.277280937	1.107756515	0.277280937
Etfb 110826	1.107735636	0.322015826	-1.048044021	0.404180253
Ier2 15936	1.10772134	0.376586887	1.008115766	0.487473412
Slc45a3 212980	1.107654073	0.279148285	1.349513887	0.013853443
Arpp19 59046	1.107618873	0.296635882	-1.020910637	0.451275312
Mob3b 214944	1.107554557	0.214659366	1.175473745	0.116752555
Zfand6 65098	1.107505517	0.195827636	1.131366599	0.078886707
Sfxn3 94280	1.107462234	0.396054633	-1.345178719	0.088164404
Ept1 28042	1.1073488	0.268430509	1.315642198	0.000983409
Iitfg3 106581	1.107306423	0.203173814	1.056411244	0.330919451
Tssc4 56844	1.107279678	0.30481233	1.107279678	0.30481233
Pigl 327942	1.10725823	0.296301642	1.10725823	0.296301642
Plekhh2 213556	1.107145396	0.438749971	-1.500772018	0.285957398
Lin52 217708	1.106912279	0.38589597	-1.080458945	0.397336681
Eif2s2 67204	1.106901677	0.096986609	1.074039599	0.179824239
Spin1 20729	1.106854273	0.239222077	1.192590642	0.115839589
C85492 215494	1.106822623	0.326436825	1.233523556	0.191066768
Rsl1 380855	1.106698059	0.42549747	1.552196866	0.235488401
Hars 15115	1.106636045	0.126911343	1.160735706	0.048299305
Psm2 21762	1.106604503	0.032057165	1.106604503	0.032057165
Rpl37 67281	1.106561698	0.331117759	-1.196366831	0.10823891
Fam164a 67306	1.106459271	0.430093501	1.886640467	0.145598876
1700017B05Rik 74211	1.106430539	0.324872161	1.273415389	0.138546103
Tsr1 104662	1.106318966	0.318723165	1.106318966	0.318723165
Lag3 16768	1.10631389	0.382416157	1.10631389	0.382416157
Shprh 268281	1.106300208	0.370954237	1.402628545	0.123690386
Hist1h4h 69386	1.106171388	0.450112259	1.752000096	0.288047588
Stip1 20867	1.106131443	0.260001346	1.11268058	0.190229647
Rab3gap1 226407	1.106096381	0.24110096	1.106096381	0.24110096
Stx12 100226	1.106085038	0.314866774	1.106085038	0.314866774
Rbm27 225432	1.105960569	0.348135152	1.484468311	0.03014541
Mcm9 71567	1.105938731	0.410279998	1.042230547	0.462527448
Foxj2 60611	1.105915149	0.340138681	1.326689381	0.109021461
Creb3l1 26427	1.105826575	0.309263476	1.105826575	0.309263476
Abca7 27403	1.105760304	0.269152982	1.191276434	0.155566237
Bnip1 224630	1.105746757	0.216809934	1.11743185	0.137796962
Toe1 68276	1.10566176	0.346153789	1.490338632	0.025188178
Smad9 55994	1.105659015	0.389788719	1.519434448	0.099604753
Ii17ra 16172	1.105644173	0.262628708	1.023495213	0.44045272
Lmtk3 381983	1.105575539	0.443294088	2.332659533	0.138606261
Ppp2r5c 26931	1.105400713	0.229366459	1.105400713	0.229366459
Atp1b1 11931	1.10528435	0.264034929	-1.050301723	0.356697458
Tmtc3 237500	1.105273198	0.378175086	1.344634259	0.190342406
Rpl17 319195	1.105212803	0.339760914	-1.213809916	0.10125559

Gemin5 216766	1.10499632	0.283018791	1.042077962	0.386522265
Kazald1 107250	1.104964044	0.412757383	1.221074732	0.329994789
Prorsd1 67939	1.104830815	0.278352573	1.104830815	0.278352573
Zcchc9 69085	1.104734249	0.219245134	1.104734249	0.219245134
Gm14005 100043424	1.104730097	0.420988366	1.104730097	0.420988366
Lhfp 108927	1.104707917	0.3451109	-1.010256819	0.475426806
Rpl15 66480	1.104701041	0.232518581	1.025068367	0.422380345
Ccdc101 75565	1.104697783	0.347351122	1.104697783	0.347351122
B3gntl1 210004	1.104632801	0.387361841	-1.336166911	0.14787827
Prmt10 102182	1.104506325	0.356867498	-1.069488431	0.397215205
Higd2a 67044	1.104454529	0.204101451	1.252594547	0.019630776
Mpnd 68047	1.104448947	0.281678605	-1.034063051	0.394441764
Cyp4f16 70101	1.104388978	0.343751079	-1.102378366	0.302677481
Ephx2 13850	1.10434538	0.203932119	1.021347798	0.415362395
Bet1 54399	1.104318464	0.182970276	1.104318464	0.182970276
Elp2 58523	1.104273246	0.183980061	1.104273246	0.183980061
Uhmk1 16589	1.104242325	0.442297595	-1.016937286	0.491400683
D14Ert449e 66039	1.104178616	0.204019839	1.224258065	0.014247022
Sdc4 20971	1.10388338	0.207575352	1.10388338	0.207575352
Rad51l1 19363	1.103865246	0.354098368	-1.097037384	0.341035662
Gng10 14700	1.103710801	0.405191532	1.474043782	0.1833363
Ppp3r1 19058	1.103681981	0.104908413	1.103681981	0.104908413
Rnf114 81018	1.103635494	0.145343177	1.001651995	0.490551332
Snora43 100306955	1.103507938	0.454669634	3.976520578	0.089749558
Pecam1 18613	1.103405377	0.147688096	1.156663963	0.065876235
Nsun5 100609	1.103304311	0.147732533	1.103840105	0.180193753
Clybl 69634	1.103289491	0.200312541	1.190288046	0.058819294
Pcgf5 76073	1.103232663	0.383032061	1.080553958	0.378077203
Amdhd2 245847	1.103170968	0.31167376	1.058144125	0.323790353
Kctd11 216858	1.103146432	0.394476925	-1.008899635	0.48514357
Psm6 26443	1.102993652	0.148059389	1.044874308	0.291050116
Rrm2b 382985	1.102808145	0.436357954	1.111313646	0.42052129
Rffl 67338	1.102737926	0.239353533	1.102737926	0.239353533
Rnf145 74315	1.102712375	0.326977668	1.381560987	0.008031962
Thrb 21834	1.102706034	0.330490784	1.447941129	0.011300893
D11Wsu99e 28081	1.102686668	0.248163419	1.008432938	0.473306343
Tmbim1 69660	1.102617442	0.103072648	1.102617442	0.103072648
Zbtb20 56490	1.102515896	0.39987432	1.121626463	0.352992644
Ncoa5 228869	1.102504067	0.174258205	1.043438007	0.323236153
Rad18 58186	1.10242024	0.425220975	1.005423262	0.496162914
Osbp1a 64291	1.102396854	0.259269947	1.102396854	0.259269947
Mad2l1bp 66591	1.102389372	0.312271614	1.102389372	0.312271614
Bhmt2 64918	1.102236286	0.245212385	1.216522994	0.023994075
Lym1 73919	1.102181846	0.36840482	-1.083996121	0.357661446
Atp2a3 53313	1.102176128	0.350408673	-1.026731708	0.459346407
Tdrd7 100121	1.102038238	0.259739314	1.115477991	0.146100629
Srcin1 56013	1.101852091	0.398088262	1.31590084	0.196662591
Rps27l 67941	1.101777591	0.284126015	1.101777591	0.284126015
Wdr45 54636	1.10162642	0.143499985	1.152013627	0.049997403
Shroom2 110380	1.101561924	0.335200396	1.200616964	0.088502721
Gpn2 100210	1.101463525	0.223506337	1.219785165	0.030405443
Irf2 16363	1.101441558	0.23921039	1.211268409	0.06407405
Gipc1 67903	1.101430406	0.224632709	1.137278522	0.105467466

Rfwd2 26374	1.101213529	0.273018408	1.103215119	0.163024006
Oaz1 18245	1.101159311	0.280990155	1.07284229	0.264012062
Fam71e1 75538	1.101022257	0.347089668	1.101022257	0.347089668
Rpl11 67025	1.100840892	0.351992704	-1.075389298	0.375063628
Slc20a1 20515	1.100835527	0.224616823	1.142650777	0.083887681
Msrb2 76467	1.100631976	0.218996276	1.154113457	0.123338481
Sp3 20687	1.100627308	0.344304551	-1.05793388	0.399046982
Ndufa4l2 407790	1.100611451	0.426442481	-1.072120647	0.423102978
Pop5 117109	1.100583748	0.318434503	-1.011709287	0.473824517
Zfp622 52521	1.100484083	0.194686375	1.100484083	0.194686375
Rmnd5a 68477	1.100326817	0.236868444	1.295949109	0.002311151
Zmym5 219105	1.100208827	0.278939161	1.112814767	0.168590973
Setdb1 84505	1.100198468	0.309057068	1.361263979	0.030758345
Smyd5 232187	1.100143779	0.134708014	1.072867818	0.042728779
Exosc6 72544	1.100135003	0.34474886	1.100135003	0.34474886
Ifi205 226695	1.09998942	0.446630311	1.09998942	0.446630311
Zfp428 232969	1.099908918	0.385805846	-1.174224288	0.282660173
Utp15 105372	1.099842052	0.321219358	1.058811756	0.304960224
Pdzk1ip1 67182	1.099841188	0.341650858	1.099841188	0.341650858
Spint2 20733	1.099797553	0.231200916	-1.042593418	0.337333608
Mtmr1 53332	1.099790483	0.334100003	1.226614915	0.192132605
Mif4gd 69674	1.099748217	0.251831934	1.002566823	0.491499777
Rrp15 67223	1.099741817	0.290817921	-1.087712155	0.264919104
Ndr1 17988	1.09966836	0.309974328	1.1928478	0.195447882
Gpr30 76854	1.099662837	0.436994614	1.099662837	0.436994614
Mtdh 67154	1.09962478	0.36018058	1.09962478	0.36018058
Ndufb5 66046	1.099498517	0.221664002	-1.045441822	0.300370355
Tmem69 230657	1.099456461	0.195475365	1.019666599	0.406341625
Odc1 18263	1.099259225	0.183126375	1.099259225	0.183126375
Kbtbd7 211255	1.099111359	0.351499176	1.333578223	0.10174052
Ogfr 72075	1.099043727	0.250306956	1.150951601	0.163779882
Dip2c 208440	1.098969187	0.356105883	1.098969187	0.356105883
Pdgfrl 68797	1.098964022	0.434375662	1.162218389	0.407080954
Bag3 29810	1.098686929	0.254855416	1.038907711	0.392479289
D4Bwg0951e 52829	1.098649549	0.121120235	1.005221335	0.460829289
Rab9 56382	1.09853215	0.16328893	1.09853215	0.16328893
Selk 80795	1.09845338	0.217527483	-1.032632913	0.359510377
Ahsa1 217737	1.098444677	0.137184245	1.09608058	0.164717935
Rpl34-ps1 619547	1.098442499	0.428043681	-1.339851816	0.160150656
Stat5b 20851	1.098391503	0.267269319	1.255299663	0.023815405
Psm6 19175	1.098306983	0.22561424	1.038500292	0.379614887
Cyb561d2 56368	1.098282814	0.183984418	-1.017648284	0.408067406
Keg1 64697	1.098269554	0.287278911	1.098269554	0.287278911
Idh2 269951	1.098198704	0.133156997	1.009831228	0.412668566
Slc35a2 22232	1.098162305	0.201199679	-1.04182226	0.256887945
Srpx2 68792	1.098147993	0.386944891	1.169916978	0.248348775
Poc1a 70235	1.098090041	0.384273805	1.338528924	0.174277393
Ndufa3 66091	1.098072102	0.276611335	1.014717837	0.462192565
Lyar 17089	1.097912233	0.288548839	1.202704789	0.101736007
Cyba 13057	1.097827575	0.325436758	-1.071915322	0.325307737
Med29 67224	1.097811367	0.296922359	1.157527537	0.208140377
Glt25d1 234407	1.097801579	0.257119919	1.097801579	0.257119919
Zc3h15 69082	1.097687649	0.309909161	1.091031779	0.253393438

Klhl21 242785	1.097639016	0.31839421	1.287234306	0.068942412
Zdhhc12 66220	1.097617392	0.196853045	1.06880236	0.16337232
S100a10 20194	1.097562521	0.303456578	1.097562521	0.303456578
Sat1 20229	1.097545188	0.216853549	1.07983925	0.151149922
Rpl28 19943	1.097463906	0.347517863	-1.106302754	0.281117063
Hltf 20585	1.097429091	0.349552428	1.12050628	0.228296663
Hnrnp1 15388	1.097268432	0.211221084	-1.038190085	0.304500587
Fam160a1 229488	1.097231473	0.343569824	1.17198671	0.267361261
Irf2bp2 270110	1.09690605	0.221946359	1.168983812	0.076438275
Foxp1 108655	1.096902468	0.28977675	1.096902468	0.28977675
Rpl26 19941	1.096847187	0.296701674	1.029052211	0.437358277
Runx1t1 12395	1.096807203	0.452865627	-2.497414141	0.097650894
Trim33 94093	1.096772475	0.411921141	1.586979468	0.118518349
Prpsap1 67763	1.09669427	0.179476635	1.149240001	0.04320726
Ngly1 59007	1.096493888	0.354408888	-1.02006055	0.465179321
Smo 319757	1.096322757	0.277703331	-1.004372737	0.48612605
Calr3 73316	1.096182829	0.382139373	-1.197886736	0.201896338
Nmb 68039	1.095997167	0.45353772	1.195314368	0.428478238
Rab71l 226422	1.095925482	0.267738784	1.224088392	0.0615747
Taf1c 21341	1.09590417	0.348580503	1.09590417	0.348580503
Pck1 18534	1.095871157	0.154745267	1.029428474	0.333965255
Ube2v2 70620	1.095806412	0.368439016	1.23012265	0.126649667
Mbd2 17191	1.095522428	0.270472559	1.20368302	0.099989684
Atg4a 666468	1.095431575	0.395412342	1.095431575	0.395412342
Gss 14854	1.095399591	0.254379992	1.022531042	0.429598782
Gpatch3 242691	1.09538786	0.33959274	1.09538786	0.33959274
Kcmf1 74287	1.095292084	0.171038006	1.033932038	0.342469783
Clpp 53895	1.095245458	0.261988598	1.151025718	0.165626989
Cul3 26554	1.095239407	0.291061521	1.19904249	0.140460435
Synj1 104015	1.095220172	0.349138125	-1.01683975	0.459077209
Mta2 23942	1.095212225	0.147742448	1.050313975	0.275945749
Exosc4 109075	1.095151005	0.210353183	1.026242361	0.393830438
Hint2 68917	1.095148608	0.302271916	-1.03363461	0.408800587
Grm8 14823	1.095055814	0.465706597	1	#DIV/0!
Hist3h2ba 78303	1.095055814	0.465706597	1	#DIV/0!
Dcn 13179	1.095004333	0.314227215	1.125095677	0.188459893
Ncoa3 17979	1.094910829	0.307368128	-1.022401996	0.445455754
Atxn3 110616	1.0949006	0.311691716	-1.001780194	0.49611231
Pigm 67556	1.094864622	0.390685979	1.289684368	0.236098186
1810022K09Rik 69126	1.094793135	0.376976602	1.311598355	0.095080912
Zbtb24 268294	1.09478433	0.248333718	1.177887818	0.111685232
Mrpl9 78523	1.094772342	0.129683132	1.062020555	0.228460554
Ybey 216119	1.094761038	0.328235204	1.194342346	0.208204152
Slc39a9 328133	1.094712159	0.320824718	1.410275386	0.001788397
Bop1 12181	1.094576476	0.230986758	1.094576476	0.230986758
Fcgr2b 14130	1.094535836	0.324657802	1.022808319	0.454810755
Nat2 17961	1.094496255	0.350811059	1.230081055	0.203391653
Adamtsl2 77794	1.094461526	0.325905706	1.26015174	0.109648391
Pcna 18538	1.094411825	0.192080869	1.238843314	0.001174608
Pfkfb1 18639	1.094170092	0.335743927	1.22730503	0.128036507
Sycp3 20962	1.094068721	0.367885571	1.307764588	0.064719865
Btg1 12226	1.094007317	0.263083665	1.174547111	0.107449447
Yipf2 74766	1.093905776	0.318477089	-1.027222525	0.438588121

Nceh1 320024	1.093758454	0.370198281	1.18724982	0.284306191
Cbfb 12400	1.093678919	0.370990009	1.482770955	0.035554301
Bag5 70369	1.093456856	0.279283006	1.138106744	0.105369104
Uqcrb 67530	1.093452193	0.253178446	1.025073031	0.421089576
Gemin7 69731	1.093392287	0.284294304	-1.023612573	0.425132522
Cep63 28135	1.093300822	0.269499015	-1.00891431	0.470572641
Gnb1 13972	1.093269048	0.317683584	-1.015206686	0.462629997
E2f1 13555	1.093256312	0.308247422	1.251617925	0.078314821
Prhoxnb 231903	1.093244698	0.339331913	1.403246991	0.012677972
Rpia 19895	1.093141028	0.376574801	1.093141028	0.376574801
Ddx42 72047	1.093128347	0.263673661	1.087348434	0.141603135
Tspan12 269831	1.093093278	0.320769091	1.117573978	0.253526188
Chmp4b 75608	1.093069229	0.140499065	1.008161367	0.445781133
Rpl7l1 66229	1.093037296	0.190675431	-1.025964142	0.352798147
Gm6900 628596	1.09302935	0.289516648	1.319034153	0.013944165
Smyd1 12180	1.092956764	0.348767726	-1.056415523	0.397502117
Zbtb40 230848	1.092867149	0.351550544	1.211350948	0.222166299
Tspan3 56434	1.092782742	0.333959528	1.092782742	0.333959528
Kynu 70789	1.092759295	0.243544565	1.163766057	0.02394275
Nmd3 97112	1.092704578	0.327279249	-1.169729457	0.081133644
Plin3 66905	1.092689927	0.178863929	1.092689927	0.178863929
Abcb7 11306	1.092563821	0.346424794	1.310531343	0.083086586
Ube2f 67921	1.092500248	0.209126638	1.013987153	0.436078895
Nudt15 214254	1.092384738	0.444308127	1.799787385	0.205334449
Gas5 14455	1.092370894	0.302998371	1.132966742	0.153965801
Ythdc2 240255	1.092301287	0.391662196	1.581170321	0.027592626
Cdk2ap1 13445	1.092275735	0.194230503	1.163341032	0.062706872
Krt10 16661	1.092220426	0.399241219	1.45260338	0.12408355
Usf1 22278	1.092207626	0.323323429	-1.05040351	0.378187146
Mxd3 17121	1.092196453	0.419432893	1.092196453	0.419432893
Capza1 12340	1.092194534	0.301040867	-1.016460804	0.45722112
Kif24 109242	1.09217231	0.334577555	-1.044324615	0.408087654
Polr3gl 69870	1.092134011	0.215600773	1.165773157	0.082361784
Vps37b 330192	1.092131663	0.192744084	1.092131663	0.192744084
Bicap 53619	1.092102584	0.255941621	1.092102584	0.255941621
Prmt1 15469	1.092050349	0.263531596	-1.004190525	0.484251024
Irgq 210146	1.092031253	0.322645539	1.163015354	0.133600894
Ddb1 13194	1.091953949	0.195567079	1.036792034	0.354674931
Ppargc1b 170826	1.091858916	0.397147493	-1.094904744	0.397484019
Adra2b 11552	1.091836215	0.243125228	1.024962849	0.41512615
Tpm1 22003	1.091802691	0.239676029	1.064836261	0.174222602
Tlk2 24086	1.091744525	0.30195655	1.091744525	0.30195655
Slc12a3 20497	1.091667256	0.465581866	-2.76078	0.173296754
Alg9 102580	1.091584977	0.273141434	1.155982611	0.156058519
Fam3c 27999	1.09148403	0.195725452	1.09148403	0.195725452
2310030N02Rik 76947	1.091474977	0.351748381	-1.014866464	0.472540488
Prkar1a 19084	1.091351278	0.096150869	1.10407485	0.02946061
Srgap2 14270	1.091061109	0.332076103	1.183610772	0.042014407
Tns1 21961	1.090864537	0.328369796	1.077425487	0.324624723
Phyh 16922	1.090863153	0.316494013	1.090863153	0.316494013
Mmrn2 105450	1.0907973	0.296925061	1.0907973	0.296925061
Phf17 269424	1.090759689	0.360203153	1.457026596	0.020905107
Atp6v0c 11984	1.090594174	0.077943265	1.029317314	0.268754034

Hoxb4 15412	1.090431888	0.355456695	1.218927361	0.151802023
Nras 18176	1.090328927	0.217790158	1.069121679	0.290437407
Ctsz 64138	1.090308772	0.324966037	-1.027375703	0.439375979
Ncbp1 433702	1.090249821	0.306648343	-1.026298038	0.420550798
1700012B15Rik 74173	1.090152123	0.357460475	1.221623761	0.212833569
Nrf1 18181	1.090082815	0.208845654	1.119768223	0.098576514
Tmed1 17083	1.090043833	0.327054351	-1.022827062	0.45098957
Mrpl55 67212	1.089692534	0.322493165	1.225564136	0.132835163
Klhl36 234796	1.089688728	0.378098017	1.204890511	0.270860903
Wdr83 67836	1.089677819	0.253631909	-1.060541212	0.254263001
Ddr2 18214	1.08961365	0.429089839	1.630074019	0.158168861
Mcm3 17215	1.089581305	0.368946301	1.004879473	0.492461106
Cblc 80794	1.089524255	0.365009999	1.135691867	0.257372146
Osbp 76303	1.089499134	0.324505178	1.132007604	0.219152203
Rnf113a2 66381	1.089442827	0.283376739	-1.006015037	0.482072889
Gramd4 223752	1.089402417	0.392707335	1.179769075	0.273507839
Adcy9 11515	1.089358926	0.386152354	1.308617865	0.18798668
Il21r 60504	1.089345025	0.425367039	1.444684304	0.229385645
Btrc 12234	1.08932917	0.107356971	1.169704611	0.006335788
Kctd10 330171	1.089286801	0.359402413	-1.046791017	0.422289807
Ckap5 75786	1.089238517	0.338630811	1.003212454	0.493546911
Banf1 23825	1.08918415	0.204643201	1.135329011	0.109641888
Tinf2 28113	1.089100306	0.301263921	-1.004497421	0.488509826
Pkmyt1 268930	1.089054974	0.365231051	1.458088699	0.001787659
Lrrc58 320184	1.08902468	0.342765035	1.15682691	0.163887159
Tsga14 83922	1.089021044	0.421494393	1.046616044	0.457406848
Fam160b2 239170	1.088991948	0.202199688	1.094816415	0.079255318
Inpp5a 212111	1.088988846	0.24376681	1.16815238	0.101338891
Tmem100 67888	1.088965036	0.44805352	-1.659929646	0.223458614
Slc27a2 26458	1.088930672	0.318026979	1.088930672	0.318026979
AA543186 100272219	1.088846188	0.438993673	-1.305757248	0.32891176
Mlxip 208104	1.088836827	0.345625853	-1.020757357	0.430487587
Mrps18b 66973	1.088756968	0.221142031	1.130828588	0.139349485
Ifnar1 15975	1.088723311	0.13102851	1.117679583	0.08635332
Ing2 69260	1.08861323	0.284785894	1.012927891	0.462801905
Zdhhc21 68268	1.088612555	0.394460412	1.379758158	0.147306926
H2-T23 15040	1.088606831	0.11206042	1.053421919	0.215555661
Entpd7 93685	1.088562239	0.398282965	1.269579058	0.253504379
Cyld 74256	1.088535658	0.31599356	1.081886449	0.314690046
Rhod 11854	1.088506389	0.349515882	-1.100594752	0.271472446
Tfpi 21788	1.088489503	0.427415995	1.088489503	0.427415995
Tnks2 74493	1.088382009	0.278063369	1.183123161	0.083093383
3110043O21Rik 73205	1.088325633	0.348784137	-1.069840691	0.359163744
Cdc42ep4 56699	1.088282912	0.190778983	1.143457455	0.067680361
Foxa3 15377	1.088237091	0.146902994	1.0361787	0.300157856
Wsb2 59043	1.088199223	0.244824513	1.022994392	0.419027123
0610012G03Rik 106264	1.088185557	0.220253272	1.100983238	0.111268008
Cd207 246278	1.088067147	0.406653871	1.213186314	0.275999454
Srcrb4d 109267	1.088020375	0.420701448	-1.329379391	0.21094128
N4bp3 212706	1.08801525	0.39447829	-1.195011459	0.237959169
BC024659 108934	1.087917344	0.325763177	1.087917344	0.325763177
Capzb 12345	1.08787271	0.288289968	-1.001967154	0.494393898
Myl6 17904	1.087779611	0.306376304	-1.02903158	0.419201553

Selm 114679	1.087751551	0.414790913	-1.267420178	0.242194199
Pan2 103135	1.087742095	0.273068779	1.18488642	0.053824829
Fermt1 241639	1.087740168	0.377860053	1.213706717	0.224082538
3110003A17Rik 73112	1.08771878	0.225757772	1.170634754	0.066268703
Zwint 52696	1.087676627	0.218276997	1.227244513	0.00788407
Aldh16a1 69748	1.087665599	0.244483114	1.087665599	0.244483114
Zfp110 65020	1.087596924	0.29670025	1.087596924	0.29670025
Cxcl13 55985	1.087589551	0.4218921	-1.194198578	0.343543363
Gm2002 100038993	1.087550437	0.449613211	1.899849747	0.087408186
Anp32a 11737	1.087542917	0.251211884	1.087542917	0.251211884
Suz12 52615	1.087527007	0.348128338	1.070208491	0.316495787
Fxyd1 56188	1.08751198	0.375295144	1.060021079	0.365348006
Slc25a39 68066	1.087439679	0.138122008	1.06069043	0.229787144
Fam160a2 74349	1.087416084	0.266290302	1.27105821	0.012066784
Ttc7b 104718	1.087396907	0.298618742	1.013841221	0.465900838
Snx27 76742	1.087321874	0.330163774	1.087321874	0.330163774
Atrip 235610	1.087298744	0.32511655	1.171300699	0.212923415
Irak2 108960	1.087165638	0.214343717	1.019631853	0.41596332
Tmem30a 69981	1.0871216	0.319286813	1.114436818	0.139999244
Kcnk3 16527	1.087103107	0.417280107	1.376563963	0.229468232
Tap2 21355	1.087050966	0.196499732	1.087050966	0.196499732
Papln 170721	1.087002673	0.425945843	-1.056558218	0.452059344
Cwf19l2 244672	1.08697524	0.427449613	1.393805995	0.144944726
Il11ra2 16158	1.086859353	0.450218696	1.907399471	0.088433925
Traip 22036	1.086835718	0.454656906	-1.823402228	0.222971531
Psemb2 26445	1.086811087	0.281963062	1.154549443	0.152870768
Ctsd 13033	1.08667127	0.272644435	1.007008677	0.478284738
Polr2e 66420	1.086658486	0.307695769	1.013558807	0.468375825
Pes1 64934	1.086284969	0.250446638	1.086284969	0.250446638
Mrps23 64656	1.086259448	0.255142135	1.086259448	0.255142135
Tspan14 52588	1.086189097	0.203473069	1.155909119	0.039261769
Rab11b 19326	1.086174502	0.071228718	1.118874841	0.017130541
Gsg2 14841	1.086094977	0.458740931	3.157199253	0.095887618
Notum 77583	1.086084272	0.144193482	1.133862899	0.037374297
St3gal5 20454	1.086062938	0.199441412	1.142989079	0.068787804
Lhx6 16874	1.08605613	0.358705718	1.08605613	0.358705718
Ccl3 20302	1.086052424	0.453058154	1.086052424	0.453058154
Gm10941 100169878	1.086052424	0.453058154	1.086052424	0.453058154
2010107H07Rik 66487	1.085994761	0.359095345	-1.006513589	0.489306191
Calr 12317	1.085974964	0.344761552	1.168234706	0.224391832
Fosl2 14284	1.085954689	0.345694509	-1.023317827	0.451081186
Mbd1 17190	1.08589517	0.327248393	1.08589517	0.327248393
Tmem102 380705	1.08585406	0.266551761	1.08585406	0.266551761
Slc27a1 26457	1.085795934	0.272659386	1.011155929	0.465981528
Tmed2 56334	1.085730134	0.104897799	1.036517873	0.219835051
Tada3 101206	1.085723638	0.309110671	-1.014759494	0.461728763
Tmem181a 77106	1.085682428	0.435321923	-1.174056028	0.311131545
Pde8b 218461	1.085654528	0.450540352	1.723251843	0.240544606
Ndufa4 17992	1.085651223	0.310088146	1.006482231	0.484589132
Cd44 12505	1.085646073	0.363669017	1.183582807	0.158371288
Pigu 228812	1.085635707	0.270478436	1.012444533	0.461681864
Tgoln1 22134	1.085531922	0.197789536	1.14532469	0.079176596
Tpd52 21985	1.085529851	0.318283059	1.204624358	0.139890756

Ptp4a3 19245	1.085520925	0.238527633	1.192395865	0.029426637
Mpg 268395	1.085511097	0.254992111	1.076578682	0.18950189
Ppp1r3b 244416	1.085398176	0.347278004	1.094576619	0.251030605
Qpct 70536	1.08534743	0.363457003	1.289135554	0.122936663
Zc3h7a 106205	1.085345566	0.375526169	1.085345566	0.375526169
Wsb1 78889	1.085230277	0.406001244	-1.200579048	0.273208862
Rbm4 19653	1.085184794	0.248265017	-1.004482069	0.480638904
Mir142 387160	1.085050047	0.445324408	1.085050047	0.445324408
Atxn10 54138	1.085045678	0.222419446	1.046191092	0.236635886
Pmm1 29858	1.084998216	0.314870878	1.095011281	0.150703152
Hspa9 15526	1.084923675	0.200321554	1.034969455	0.35085359
Vrk3 101568	1.08485355	0.131685967	1.05188388	0.235664943
9130023H24Rik 100043133	1.084767529	0.377566001	1.037724398	0.434758035
Csnk1d 104318	1.084754463	0.241725671	1.179691532	0.054781414
Samd4 74480	1.084739529	0.399972499	1.078573781	0.385758633
Surf2 20931	1.084722231	0.277617136	1.093263201	0.160072283
Ppp1r3g 76487	1.084670708	0.452651245	2.702090216	0.056083401
4930471M23Rik 74919	1.084489324	0.209867592	1.216460083	0.004581126
Tmem55a 72519	1.084486822	0.42382563	1.017674719	0.480732338
Gngt2 14710	1.084475181	0.39463207	-1.064565628	0.390917777
Gnb1 14688	1.084474879	0.149308179	-1.005900891	0.453161967
Ppfia4 68507	1.084459095	0.414566471	1.698385249	0.046333718
Trmt2a 15547	1.084398484	0.311053032	1.084398484	0.311053032
Ngdn 68966	1.08437247	0.28496557	1.005988434	0.482541992
Adpgk 72141	1.084310036	0.265381248	1.010866184	0.464436803
Timp2 21858	1.084270906	0.26251665	1.177624122	0.049774041
4930420K17Rik 652925	1.08423125	0.334989081	-1.048063772	0.387656015
Wisp1 22402	1.084225513	0.374281698	-1.009969652	0.472508444
Ptpmt1 66461	1.084197259	0.237832515	1.084197259	0.237832515
Npepps 19155	1.08408593	0.177640496	1.142970378	0.056371584
Cct2 12461	1.08406535	0.241771064	-1.041189466	0.319297217
A1bg 117586	1.083954317	0.438087623	1.052660912	0.455601444
Exoc6b 75914	1.083938007	0.38416721	-1.231381619	0.170111998
Pde4a 18577	1.083934419	0.402530841	1.08663238	0.387351778
Leprel2 14789	1.083906069	0.370686617	-1.073685355	0.378509196
Psma5 26442	1.083818748	0.253229805	1.083818748	0.253229805
Sgpp1 81535	1.083721434	0.233803306	1.172280207	0.054813247
Slx1b 75764	1.083663638	0.360668237	-1.112280597	0.256147644
Rab6a 19346	1.083614791	0.145186933	1.033526124	0.295629995
Tmco6 71983	1.083493557	0.33564474	1.094866639	0.251148579
Evl 14026	1.083423248	0.368642543	1.17975158	0.264148137
Fam103a1 67148	1.08342132	0.271860838	1.179821162	0.050816024
2810432D09Rik 69961	1.083333523	0.343363097	-1.020021886	0.460082287
Nap1l4 17955	1.083298478	0.179459987	1.022283467	0.375278988
Zfp266 77519	1.083228442	0.347272053	1.216532498	0.171594885
Sdcbp 53378	1.083176945	0.308834546	1.195996425	0.125807373
Atp2a2 11938	1.083095934	0.224848899	1.16862045	0.04821131
Kctd9 105440	1.083095438	0.382275291	1.197735644	0.241461546
Cdkl2 53886	1.083077333	0.425307361	1.517040546	0.162582138
Mmp14 17387	1.082777658	0.2079883	-1.03811656	0.172791667
Zfp143 20841	1.082683399	0.417146364	1.289258227	0.09376157
Ube2e3 22193	1.082581855	0.351303117	1.161381654	0.23641785
Rcc2 108911	1.082577553	0.198446305	1.095992003	0.059341719

Spire1 68166	1.082429567	0.447505891	1.489598533	0.284410012
Srsf6 67996	1.082416638	0.305194903	1.317288776	0.004109346
Bend3 331623	1.082353964	0.413988119	1.374312253	0.200079127
Cdhr5 72040	1.082339859	0.336278383	-1.05777321	0.356830266
Emilin2 246707	1.082331257	0.402020139	-1.285390659	0.183850289
Wbscr16 94254	1.082318617	0.207931933	1.082318617	0.207931933
Lpxn 107321	1.082201952	0.439612797	-1.101525314	0.422065555
1810014F10Rik 69064	1.082130632	0.375274903	-1.010453591	0.472171512
Lsm7 66094	1.082031101	0.321452155	1.096413136	0.236142392
Clk2 12748	1.081986784	0.374762805	1.318037196	0.104062637
2700089E24Rik 381820	1.08198324	0.194715279	1.207575562	0.00049618
Aoah 27052	1.081879604	0.380756744	1.375486132	0.03974296
1190005I06Rik 68918	1.081878878	0.40777115	-1.181571594	0.212233997
Rp9 55934	1.081855922	0.352222056	-1.039126579	0.423844511
Chchd4 72170	1.081848011	0.210229102	1.048815418	0.316553147
Fmnl2 71409	1.081809561	0.430638943	1.270173871	0.279896128
Lcmt1 30949	1.081795411	0.334961605	-1.025694167	0.44261247
Nptn 20320	1.081770048	0.387315917	1.050661248	0.401864866
Csf2rb 12983	1.081631575	0.377562304	1.022330389	0.458177503
Phlpp2 244650	1.081622698	0.367768338	1.43447218	0.019596858
Hsd12 72479	1.081603924	0.276573024	1.16828882	0.116775394
Rbks 71336	1.081598082	0.331135661	1.197201625	0.116764256
Ccdc22 54638	1.081575524	0.385296572	1.076916656	0.338502628
Ficd 231630	1.081526956	0.374846562	1.396454163	0.037050858
Flt3l 14256	1.081481232	0.338591597	1.266148809	0.0628531
Gosr1 53334	1.081321437	0.348373764	1.339481242	0.042143678
Arglu1 234023	1.081287652	0.238134179	1.128606277	0.150389507
Tlr2 24088	1.081248721	0.427231261	1.081248721	0.427231261
Zfp874b 408067	1.081171331	0.390361048	-1.124593423	0.321563902
Dnajb14 70604	1.081003896	0.414144845	1.081003896	0.414144845
Slc25a46 67453	1.081002427	0.286637373	1.185677105	0.094054647
Cox5a 12858	1.080987013	0.292671304	1.059135589	0.256173936
Rpl39 67248	1.080974267	0.350800431	-1.193406731	0.062575198
Snrnp27 66618	1.080957935	0.33337295	1.080957935	0.33337295
Nup50 18141	1.080955672	0.265120201	1.01837451	0.440351917
Tmtc2 278279	1.080884295	0.345160219	1.152925267	0.074394016
Cct4 12464	1.080821938	0.293463781	1.080821938	0.293463781
Zbtb43 71834	1.080807875	0.376517069	1.188250654	0.234802805
Usp15 14479	1.080657313	0.345061565	1.08972224	0.287838963
Pex16 18633	1.080595138	0.257018469	1.041003311	0.374438122
Rhbdl3 246104	1.080586766	0.455695994	2.154086947	0.161214996
Rpn1 103963	1.080583616	0.2711452	1.142301461	0.139716485
Mns1 17427	1.080506809	0.448789265	1.080506809	0.448789265
Psma4 26441	1.080329678	0.212158544	1.028884475	0.378028074
Rbm7 67010	1.080303003	0.394997739	-1.083496636	0.392427122
Wdr3 269470	1.080261854	0.383836619	1.202829521	0.258199947
Cisd3 217149	1.079858626	0.317830877	-1.103237296	0.214585606
Pfdn2 18637	1.079783117	0.277608089	1.079783117	0.277608089
Arsgl 74008	1.079659206	0.345283947	1.250889625	0.094726816
Chd4 107932	1.079635185	0.106518557	1.044094053	0.212046539
Asrgl1 66514	1.079613625	0.251067471	1.092454441	0.123033563
Tmem223 66836	1.079577236	0.355670522	-1.011428175	0.476943787
Chmp1b 67064	1.07953913	0.354417073	1.228816534	0.153085127

Stat5a 20850	1.079511593	0.334002161	1.19935139	0.153181279
Ints2 70422	1.079497959	0.454785861	-1.04057646	0.478336464
Mrps17 66258	1.079496699	0.287896692	1.251797918	0.027601354
Wbp5 22381	1.079471424	0.29646182	-1.072115314	0.267867183
Dpp3 75221	1.079413636	0.209523747	1.199687181	0.010229384
Reep4 72549	1.079410784	0.344581431	1.226795671	0.131001432
Clec1b 56760	1.079322173	0.33777992	-1.070659112	0.304860204
Yipf5 67180	1.079311358	0.319696199	1.13091405	0.138504833
Maged2 80884	1.079206123	0.37418233	1.183998368	0.219676856
Dusp10 63953	1.079201876	0.385976835	1.183086642	0.257890909
Reep5 13476	1.079189999	0.39004607	-1.158904486	0.24403699
Ces2d-ps 667754	1.079186869	0.475508772	1	#DIV/0!
Arhgef10 72754	1.079151769	0.229557083	1.079151769	0.229557083
Mettl10 72096	1.079133816	0.455798105	-1.820480784	0.194152814
Atp5k 11958	1.079097892	0.398907418	1.017452917	0.461526873
Ints5 109077	1.079097418	0.275476601	-1.010299919	0.457251033
Adss 11566	1.079085581	0.297900557	1.053992875	0.270482456
8430419L09Rik 74525	1.079077339	0.163752046	1.032737082	0.320181029
Repin1 58887	1.0789916	0.223630608	1.043067338	0.338672934
H2afy2 404634	1.078990681	0.363661943	1.078990681	0.363661943
Psap 19156	1.078982057	0.075109179	1.120915897	0.001977687
2310003F16Rik 67693	1.07892984	0.340134695	-1.026159219	0.442103503
Cblb 208650	1.078925146	0.352329398	1.078925146	0.352329398
Gm10653 677044	1.078889156	0.330292325	-1.145673729	0.093184406
Hnrnpa0 77134	1.078885718	0.391546838	-1.059662605	0.41965308
Pign 27392	1.078873356	0.40726447	1.349526088	0.177192659
Cntln 338349	1.078855992	0.465525078	1.656626026	0.330587367
Itsn2 20403	1.078838715	0.423751379	1.845151606	0.007065639
Ube2i 22196	1.078834428	0.211412677	1.085186595	0.115404787
Hiatl1 66631	1.078737171	0.384720609	1.078737171	0.384720609
Zfp454 237758	1.078505994	0.471601984	-3.925	0.173296754
Trmt112 67674	1.078433799	0.275830614	1.139457389	0.164170586
Csrp1 13007	1.078426249	0.293636347	1.267396484	0.007077966
Zfp251 71591	1.078322658	0.418428655	-1.40270781	0.118445469
Il10rb 16155	1.078200107	0.368547829	1.241204298	0.165668796
Sf3a3 75062	1.078144048	0.293075751	1.154697293	0.129080959
Zmat3 22401	1.078123853	0.316825305	1.160344126	0.184126886
Adamts14 237360	1.078102686	0.357388849	-1.074428568	0.339345207
Gltscr2 68077	1.078044457	0.343750418	-1.04006449	0.409609262
Cabp4 73660	1.078041678	0.438923006	1.078041678	0.438923006
Dync2h1 110350	1.078038272	0.436729072	1.078038272	0.436729072
Tbc1d17 233204	1.077986698	0.215742728	1.017008298	0.418920328
Tnfai8 106869	1.077920293	0.456191443	-1.870393594	0.174549207
Baz1b 22385	1.07791856	0.330002991	1.337842201	0.005320764
Slc25a3 18674	1.077845968	0.087240142	1.03406787	0.167986606
Tpra1 24100	1.077823079	0.324329209	1.190798038	0.139907344
Chic1 12212	1.077733774	0.321129268	1.077733774	0.321129268
Slbp 20492	1.077682923	0.402082691	1.22645061	0.230784511
Cbwd1 226043	1.077535846	0.417524446	1.345184653	0.215474656
Tnfrsf12a 27279	1.07752616	0.371306002	1.07752616	0.371306002
Alb 11657	1.077519741	0.291317498	-1.017123268	0.40057876
4933426M11Rik 217684	1.077433207	0.38502662	1.312026584	0.121762252
Tmem11 216821	1.077398615	0.166675163	1.077398615	0.166675163

Dtd1 66044	1.07735312	0.340733421	1.07735312	0.340733421
Fam162a 70186	1.07731277	0.276551543	-1.067562025	0.235721956
Bambi 68010	1.077279985	0.404865931	1.077279985	0.404865931
2310036O22Rik 68544	1.077269218	0.30332975	-1.108752923	0.105884014
Bet1 12068	1.077262553	0.344538691	1.108174468	0.243396073
Cox6b1 110323	1.077261655	0.359173132	1.068069645	0.346903726
Rpl6 19988	1.077246533	0.319656676	-1.003938184	0.490002355
Gm5431 432555	1.077222838	0.464138274	-2.542818182	0.142006587
Unc119b 106840	1.077210809	0.187961651	1.12150259	0.092025596
Id3 15903	1.077210676	0.360609504	-1.001275695	0.496498582
Rnaseh2c 68209	1.077205715	0.380443384	-1.22922713	0.124878812
Inpp4a 269180	1.077095485	0.259233229	1.226051294	0.016421595
Adk 11534	1.077084843	0.321636576	-1.034765672	0.400881108
C130022K22Rik 232236	1.077041687	0.327936111	1.129267451	0.240971088
Golga7 57437	1.076955687	0.292878123	1.258287549	0.01691387
Dtnb 13528	1.076901833	0.286096435	1.076901833	0.286096435
Ramp2 54409	1.076761469	0.330942472	1.076761469	0.330942472
Unkl 74154	1.076704922	0.367045163	1.283748479	0.091230653
Ankrd54 223690	1.076698625	0.352475507	1.337832237	0.031523653
Ccdc134 76457	1.076611681	0.368010229	1.083921128	0.301400819
Eif6 16418	1.076566601	0.286669599	1.174665295	0.093928658
Prr24 66300	1.076491942	0.353983905	1.076491942	0.353983905
Hspa1a 193740	1.076442159	0.43657184	1.095759061	0.422706344
1500003O03Rik 56398	1.076425973	0.311319748	1.161846264	0.13388833
Mrpl51 66493	1.076346602	0.320633588	1.134507344	0.215975417
Klk1b4 18048	1.0763041	0.449350488	1.305619716	0.263214304
Plp2 18824	1.076280113	0.414674847	-1.171043662	0.314061076
Rdh1 107605	1.076280104	0.459574804	1.121266245	0.449231917
Haus3 231123	1.076254903	0.440680469	-1.709418759	0.079627308
Atp6v1h 108664	1.076211613	0.372632561	1.177851539	0.252027092
Cyp2c38 13097	1.07618707	0.25079926	-1.055482724	0.221589241
Cbx8 30951	1.076166869	0.324941296	-1.048229113	0.325719443
Metap2 56307	1.076061505	0.355587906	1.214011343	0.161569102
Fnip2 329679	1.076016323	0.344854706	-1.008264827	0.481009094
0910001L09Rik 66096	1.075959605	0.389239228	-1.148679386	0.246680711
Tmed5 73130	1.075944012	0.293605148	-1.008181878	0.470768883
6430527G18Rik 238330	1.075928514	0.36510178	-1.032015324	0.434440173
Nipbl 71175	1.075899918	0.319076358	1.075899918	0.319076358
Pon2 330260	1.075884537	0.202976285	1.075884537	0.202976285
Zfp768 233890	1.075881983	0.170002497	1.173848562	0.005632875
Ip6k1 27399	1.075878705	0.12212803	1.093770098	0.091053222
Gfer 11692	1.075757281	0.29684678	-1.027892036	0.382173758
Uqcr10 66152	1.075746723	0.368194183	-1.052285532	0.40384736
Nfatc2ip 18020	1.075706994	0.392229019	1.306890655	0.145008195
1810055G02Rik 72056	1.075691347	0.394326584	-1.03854622	0.423372397
Slc25a12 78830	1.075536452	0.322915212	1.288123509	0.019379013
Vapa 30960	1.075459618	0.250797338	1.082236757	0.043429535
Laptm4a 17775	1.075450387	0.112991574	1.052277961	0.1977666
Psma7 26444	1.075418987	0.308882603	1.016628267	0.456590027
Nr1i2 18171	1.075407826	0.319276779	-1.115435386	0.138165337
Cd24a 12484	1.075392897	0.431797081	1.218269551	0.311411014
Lats1 16798	1.075365448	0.368774021	1.377231438	0.03358538
Slain2 75991	1.075234941	0.342669275	1.071575684	0.296671979

Relb 19698	1.075113042	0.383085937	-1.224928329	0.127998099
Eif1ad 69860	1.075084755	0.265911283	1.039974966	0.325917088
Arhgap19 71085	1.075033367	0.400491934	-1.003839435	0.493252077
Dynll2 68097	1.07501103	0.288253349	1.018551907	0.441765061
Ndufa1 54405	1.07491647	0.35537482	-1.048474192	0.396366999
Asb1 65247	1.074794241	0.323025995	-1.109454048	0.157641219
Smarcd2 83796	1.074710478	0.311931901	-1.020289483	0.438728682
Ddx1 104721	1.074679831	0.260592628	1.157352619	0.047019296
Atp5e 67126	1.074625581	0.398807337	-1.008130747	0.483645016
Dpm3 68563	1.074530506	0.378403206	1.058201637	0.374948926
Nomo1 211548	1.074510555	0.204353071	1.137142251	0.03341458
Bri3 55950	1.074509411	0.31266635	-1.102535119	0.167290486
Taf1 270627	1.074500014	0.373322462	1.01560491	0.474713828
Vsig10 231668	1.074457937	0.411091259	1.074457937	0.411091259
Nlrx1 270151	1.074369344	0.249474467	1.044502132	0.287060696
Cct3 12462	1.074173837	0.250024348	1.082743904	0.15405835
Gm12034 382492	1.074164494	0.363219469	1.074164494	0.363219469
Top3a 21975	1.074140479	0.367290467	1.007545074	0.480285591
Thada 240174	1.074042229	0.264405777	1.035533663	0.33871155
Hmbox1 219150	1.073912168	0.352373737	-1.032346773	0.422085096
Pim3 223775	1.073759594	0.295473947	1.073759594	0.295473947
Cecr2 330409	1.073647156	0.42610232	-1.17704945	0.337175598
Vbp1 22327	1.073593638	0.435744055	-1.113814351	0.361019963
Zfp874a 238692	1.073523936	0.39566485	1.068178108	0.389186211
Dusp23 68440	1.073522842	0.372904839	1.073522842	0.372904839
Ndfip1 65113	1.073420394	0.303961916	1.014492668	0.459542108
Ttc39c 72747	1.073335508	0.250611124	1.082197512	0.12085714
Dlgap4 228836	1.073271495	0.325899251	-1.059915449	0.29038307
Mpv17l 93734	1.073264894	0.254984686	1.005616611	0.476321528
A630066F11Rik 320642	1.073188549	0.454012781	1.186385662	0.388215906
Pbrm1 66923	1.073106343	0.391659985	1.27544016	0.16600237
Cox6a1 12861	1.07300453	0.355760637	-1.147218024	0.173901958
Wwp2 66894	1.072990361	0.27315042	1.101244847	0.22701014
Nfu1 56748	1.072934271	0.173638054	1.043242039	0.129985445
Cox7c 12867	1.072883333	0.282432086	1.017084334	0.445177814
Pard6a 56513	1.072805346	0.397481964	1.235839211	0.228932075
Ap1b1 11764	1.07278517	0.190081897	1.106215641	0.117748172
Bhmt 12116	1.072646553	0.412857783	1.053291853	0.423912674
Ndufc2 68197	1.072645293	0.191500142	1.072645293	0.191500142
Git2 26431	1.072596568	0.22903132	1.072596568	0.22903132
Prdx5 54683	1.072581395	0.161400372	1.000601619	0.495449939
Mavs 228607	1.072501247	0.257409292	1.072501247	0.257409292
Iqck 434232	1.072370472	0.469052113	3.133345238	0.159901737
Cog8 97484	1.072368797	0.326564401	-1.00145676	0.49629199
Ywhab 54401	1.072366785	0.138661793	1.049509414	0.079218733
Fpr2 14289	1.072349951	0.462126442	-1.052954382	0.472033354
Msl1 74026	1.07231195	0.241835127	1.123664061	0.110662472
Prtg 235472	1.072299933	0.465352052	1.255130842	0.411829119
Phldb1 102693	1.072236466	0.294598592	1.134411809	0.176445413
C030034I22Rik 77533	1.072217916	0.443561798	1.467459434	0.238551673
2400003C14Rik 71955	1.072194358	0.338952107	1.300481328	0.019737943
Dnase1l1 69537	1.072140657	0.417117348	1.507573837	0.069599033
Ttc27 74196	1.072107517	0.376330389	-1.012829012	0.476509671

1200011M11Rik 74133	1.072096056	0.400885798	1.072096056	0.400885798
Tulp3 22158	1.072087433	0.418613003	-1.197394785	0.280029512
Ccrl1 252837	1.072074399	0.388030421	1.072074399	0.388030421
Pld3 18807	1.071961675	0.29428336	-1.031300007	0.366799283
Trmt6 66926	1.071897045	0.365901459	-1.045871648	0.396284018
Polr3f 70408	1.071803333	0.411668651	-1.170104951	0.287301646
Ppp1r14b 18938	1.071770937	0.327808891	-1.033488571	0.390288144
Unc119 22248	1.071753335	0.360552304	-1.040693039	0.415460291
Fnta 14272	1.071742493	0.268199551	1.079520122	0.156494912
Uvrag 78610	1.071724666	0.352337402	-1.159257617	0.111149574
Nup85 445007	1.071632414	0.334717961	1.150343341	0.182575324
Kcnn2 140492	1.071595298	0.351995927	1.090837859	0.2269716
Nucks1 98415	1.071593439	0.266986019	1.208101713	0.024893192
Crlf2 57914	1.071510551	0.404116461	1.215247129	0.263910778
Prmt3 71974	1.071503588	0.354599063	1.323687082	0.019797953
Dvl2 13543	1.071462688	0.273558109	1.205897188	0.033026109
Mest 17294	1.071424571	0.403632338	-1.071309181	0.391616968
Qser1 99003	1.071314321	0.327715512	1.231836451	0.029067673
Rfxap 170767	1.071263213	0.321773119	1.038605695	0.383558439
Rab24 19336	1.071259303	0.325029217	1.001843538	0.494901893
Ddx5 13207	1.071210077	0.29426807	1.158652805	0.114206209
Gpx1 14775	1.071184106	0.407577806	-1.03625752	0.411537361
Pfkm 18642	1.071016185	0.284263997	1.015008564	0.448252078
Plekhg3 263406	1.070878281	0.309393507	1.070878281	0.309393507
Syncrip 56403	1.070864285	0.267088779	1.070864285	0.267088779
Tep1 21745	1.070812839	0.372267078	1.276762686	0.079323297
Rpl10 110954	1.070785032	0.37996076	-1.220769596	0.08999936
Fam13b 225358	1.070758151	0.40079841	-1.108693708	0.345558774
Fem1a 14154	1.070722567	0.283780636	1.110395739	0.104607817
Cercam 99151	1.070617504	0.433378911	-1.568173682	0.04804627
Atp5h 71679	1.070336556	0.334838573	-1.024253904	0.436158679
Slc1a2 20511	1.070310126	0.312504741	1.231572348	0.017977479
Anks3 72615	1.069996408	0.349442319	1.201979566	0.13325854
Paf1 54624	1.069962197	0.356799309	1.069962197	0.356799309
Pde1a 18573	1.069949569	0.367551466	1.142101223	0.17620642
Snrpd1 20641	1.069942528	0.358973564	1.297735258	0.054074977
Polr1d 20018	1.069764695	0.322690283	-1.009049774	0.474673462
Dlgap1 224997	1.069596606	0.449020026	1.293675631	0.313422222
1500010J02Rik 68964	1.06954805	0.367236017	-1.168707916	0.146035975
Terf1 21749	1.069491126	0.350906836	1.069491126	0.350906836
Metrn 70083	1.069443278	0.431329155	-1.226545361	0.250316678
Psemb3 26446	1.069398564	0.325968484	1.269258731	0.021289661
Sun2 223697	1.069316765	0.251447012	1.129976556	0.085855417
Pqlc2 212555	1.069294876	0.293282885	1.128338699	0.175152118
Tcf7l1 21415	1.069276421	0.200609912	1.116662111	0.064753203
Scrn3 74616	1.069220787	0.326739958	1.180742164	0.116932854
Nr2f1 13865	1.069209405	0.450242292	1.069209405	0.450242292
Tyw3 209584	1.069124404	0.42641708	-1.500880644	0.023347513
Elovl3 12686	1.069096597	0.390983879	1.380466307	0.017876168
Athl1 212974	1.069007682	0.279258891	1.217134334	0.016928835
1600021P15Rik 239796	1.068973047	0.304925885	1.068973047	0.304925885
Retn 57264	1.068923993	0.479640709	1	#DIV/0!
Dhx8 217207	1.06888427	0.2729544	1.130747005	0.136276334

Trafd1 231712	1.068777804	0.101955861	1.046464026	0.186981684
Clec10a 17312	1.068695162	0.454103605	1.702630489	0.197137012
Axin2 12006	1.068647342	0.437674088	-1.090462378	0.388573598
Fat4 329628	1.068601664	0.455768934	1.629101651	0.234637347
Ccng1 12450	1.068567198	0.366157544	1.06105261	0.226331012
Dnajc7 56354	1.068542336	0.3024558	1.068542336	0.3024558
Acp5 11433	1.068519171	0.354951114	-1.064269767	0.335234121
Sf3b5 66125	1.068512488	0.278118319	-1.001388811	0.49448098
Sds 231691	1.068496117	0.308185578	1.068496117	0.308185578
Cep110 26920	1.068427355	0.386074602	1.091652726	0.276810762
Prdx1 18477	1.068358867	0.293148014	1.006110119	0.479473404
Ppp1r10 52040	1.06830505	0.414416416	1.218964279	0.276630546
Eef1d 66656	1.068206256	0.38984667	-1.092226262	0.342080875
1110005A03Rik 74319	1.068170569	0.401624284	1.068170569	0.401624284
Zfyve1 217695	1.067988949	0.271551072	1.141263817	0.100898626
Tnfsf12 21944	1.067953283	0.304302032	1.23195814	0.014716657
U2af2 22185	1.067929967	0.161975981	-1.010832525	0.398138698
4833422C13Rik 373852	1.067924953	0.450940537	1.067924953	0.450940537
Atg16l1 77040	1.067762742	0.301564514	1.165549449	0.04670278
Rnasek 52898	1.067724892	0.389012776	1.118211505	0.278309334
Cox7b 66142	1.06772174	0.288556542	-1.069869249	0.207226186
Dffa 13347	1.067674063	0.325678593	1.044126263	0.328885707
Zfp462 242466	1.067670981	0.468077156	-3.088025253	0.059099193
Hoxb3 15410	1.067652568	0.433534054	1.657108054	0.063626753
Stradb 227154	1.06761617	0.241001055	1.06761617	0.241001055
Hist1h4i 319158	1.067578359	0.445357257	1.067578359	0.445357257
Ndufc1 66377	1.067576247	0.316394455	1.054920426	0.311369071
Nlgn2 216856	1.067575131	0.337700573	1.066711763	0.289823703
ORF19 68767	1.067561377	0.295435379	1.067561377	0.295435379
Arm6c6 76813	1.067496932	0.390446549	1.198407267	0.192566292
Smg7 226517	1.067450674	0.319507303	1.188665904	0.004538998
Pick1 18693	1.067411064	0.312848775	1.007692271	0.476210302
Acaa1a 113868	1.067396806	0.330643955	1.192527906	0.08809275
Mif 17319	1.067352342	0.341265428	1.033983598	0.401110804
Pdcd6 18570	1.067313138	0.252460104	1.010080518	0.452884778
Ankmy2 217473	1.067257094	0.356717828	-1.050881107	0.376772163
Arpc5 67771	1.067256034	0.305489131	-1.000236795	0.499236737
Tmem126a 66271	1.067122051	0.341784222	-1.022788254	0.435282031
Crls1 66586	1.067106293	0.289196861	1.032296671	0.396634997
Sdhb 67680	1.066967488	0.306155044	-1.078664478	0.212633125
Ppap2c 50784	1.066957399	0.188395341	1.013651147	0.403316056
Gp1bb 14724	1.066948925	0.47340076	1	#DIV/0!
Accn2 11419	1.066872736	0.322250453	1.14476459	0.146060978
Dcaf17 75763	1.066870492	0.398066891	1.294769433	0.127075398
Ccdc120 54648	1.066774137	0.457188577	-1.166136669	0.383663267
Cmpk1 66588	1.066771447	0.329229833	1.066771447	0.329229833
Tmem59 56374	1.066749685	0.099229959	1.035983698	0.202135686
Rock2 19878	1.066725026	0.40194844	-1.276154027	0.091243995
Ifi35 70110	1.066679089	0.373879242	1.142512617	0.253863697
2310046O06Rik 78323	1.066674239	0.349040039	-1.076816673	0.254875839
Clip3 76686	1.066656947	0.448754466	1.505525964	0.225818971
Ndufa11 69875	1.066596686	0.370562332	1.219800452	0.138960825
Med30 69790	1.066485981	0.427064246	-1.180938971	0.31352457

Actl6a 56456	1.066390357	0.344521254	1.177547285	0.100974622
Rai12 54351	1.066304861	0.319483727	1.125879	0.190178917
Rnf6 74132	1.066270865	0.392253745	1.406663044	0.032136233
Hint3 66847	1.066243551	0.369760561	-1.161889435	0.154122528
Tmem41b 233724	1.066149966	0.311211826	1.000644007	0.497860073
Fcrls 80891	1.066057669	0.479449757	1	#DIV/0!
Hpca 15444	1.065986332	0.469828932	1.050723353	0.475649888
Lin7c 22343	1.06597756	0.405609623	1.466316549	0.033957232
Fbxo3 57443	1.065948753	0.312110822	1.065948753	0.312110822
Ndufb11 104130	1.065838811	0.357656454	-1.056065545	0.359156333
BC056474 414077	1.065718257	0.353370662	1.069785827	0.313336932
Acbd3 170760	1.065661052	0.431372816	1.539346854	0.067540821
Dbil5 13168	1.065632789	0.465486568	-1.762234392	0.245786637
Zfyve20 78287	1.065617898	0.397944258	1.194802343	0.248526173
Pkp2 67451	1.065541946	0.361613481	1.150513598	0.11352343
Aasdhppt 67618	1.065526441	0.353960268	-1.148165598	0.100463928
Mrps25 64658	1.065492083	0.310685832	-1.083917898	0.139647901
Morf4l2 56397	1.065485162	0.342874924	1.065485162	0.342874924
Mllt6 246198	1.06545758	0.35860115	1.215875327	0.101642506
Skap2 54353	1.065444759	0.30333961	1.065444759	0.30333961
Nfia 18027	1.065435081	0.33692024	1.065435081	0.33692024
Tpmt 22017	1.065434004	0.202949106	1.122786787	0.0247495
Mrps9 69527	1.065410299	0.280586677	1.148551039	0.079707656
Ptpn9 56294	1.065363442	0.389653469	1.371053843	0.044870288
Mettl21a 67099	1.065218179	0.350604678	1.297523825	0.011987453
Gpr132 56696	1.064979022	0.452242803	-1.247905598	0.351791864
Usp10 22224	1.064939893	0.333907933	1.103252947	0.181862053
Spg21 27965	1.064864439	0.345207964	1.167150849	0.161097895
Ccdc12 72654	1.064837754	0.358069321	-1.064861912	0.327543388
Dapk1 69635	1.064831719	0.372607647	1.335709418	0.026176055
Zfp91 109910	1.064789829	0.364059889	1.11500455	0.282465548
Smurf2 66313	1.064732737	0.388254338	1.309797591	0.044373658
Ugt2a3 72094	1.06471723	0.247199967	1.026681091	0.388840763
Slc31a2 20530	1.06470649	0.3040727	1.006284888	0.479468497
Bre 107976	1.064667889	0.29890082	1.015058129	0.451127688
Guk1 14923	1.064659256	0.295429945	1.00135206	0.495143498
9930104L06Rik 194268	1.06457793	0.393181087	-1.056535514	0.39348814
Dennd5b 320560	1.064506488	0.373548799	1.144389634	0.062273048
Apip 56369	1.064461699	0.3705515	-1.030032425	0.431737585
Klf10 21847	1.064446922	0.442488119	1.472701876	0.189675533
Mtch2 56428	1.06434301	0.174669434	1.028963109	0.319378412
Tomm7 66169	1.064340907	0.328788163	1.064340907	0.328788163
Zfp74 72723	1.064334303	0.353084457	1.073192885	0.256077182
Spcs1 69019	1.064315625	0.264445959	1.100463334	0.173862127
Tmem144 70652	1.064279543	0.46181974	1.064279543	0.46181974
Mettl8 228019	1.064186663	0.362063824	1.102264258	0.223857243
Hal 15109	1.06414678	0.291498787	1.06414678	0.291498787
Ociad1 68095	1.064055109	0.289588897	1.019040907	0.414200459
Dact1 59036	1.063991573	0.471955306	-3.346162822	0.024440623
Ubxn6 66530	1.063930698	0.352211589	-1.043615491	0.384647415
Grcc10 14790	1.063916958	0.374632244	-1.184257422	0.095358596
Ppm1b 19043	1.063907188	0.283196734	1.063907188	0.283196734
Hira 15260	1.063898021	0.244755362	1.10565916	0.127648309

Tubgcp4 51885	1.06389234	0.389297367	-1.063417477	0.36976439
Ccdc32 269336	1.063889745	0.390531317	-1.066441555	0.364416521
Ptpn1 19246	1.063671167	0.219627056	-1.034088966	0.237607195
Ssbp1 381760	1.063663051	0.351130585	1.161878515	0.178345294
Arl13b 68146	1.063592745	0.44121243	1.063592745	0.44121243
D19Bwg1357e 52874	1.063590734	0.329105273	-1.016685563	0.435504096
Vrk2 69922	1.063559598	0.299354778	1.204451565	0.016559101
Elt1 170757	1.063515924	0.371150775	-1.137158113	0.199256695
Lman2 214895	1.063507647	0.372234991	-1.069306499	0.342034605
Snx1 56440	1.063469663	0.322376085	1.143647307	0.157681553
Zrsr2 22184	1.063428369	0.380825857	-1.051498355	0.385833727
Cdk13 69562	1.063356031	0.367588965	-1.141938471	0.176059505
Pxmp3 19302	1.063323283	0.319909719	1.063323283	0.319909719
Sec22b 20333	1.063290029	0.353807576	1.15161148	0.173430527
Znhit6 229937	1.063257253	0.370831181	-1.04764137	0.381833243
Taf12 66464	1.063251213	0.310492839	1.000483639	0.498412203
Trna1ap 71787	1.063201359	0.357038511	1.141747887	0.227455965
Anapc16 52717	1.063166906	0.334680382	-1.017491072	0.449457293
Zfp961 234413	1.063067195	0.420666857	-1.10656096	0.373733202
Wdr5b 69544	1.063051434	0.444752659	1.063051434	0.444752659
Mmadhc 109129	1.062921767	0.281562765	-1.012886932	0.4392171
Zfp869 66869	1.062899851	0.365922208	1.027662069	0.425864985
Haus8 76478	1.062836481	0.415617477	-1.336264302	0.055491208
Vps54 245944	1.062784363	0.366968389	-1.088389646	0.255562167
Arhgap9 216445	1.062558448	0.400789567	1.062558448	0.400789567
Fgfr1op 75296	1.062404177	0.400867971	1.192265255	0.245748225
Zmynd11 66505	1.062400134	0.373042737	1.226715328	0.104308409
Papd7 210106	1.062261467	0.409506487	-1.060003618	0.388086728
Rpl41 67945	1.062212403	0.415925813	1.001445342	0.496694815
Fcgr4 246256	1.06216848	0.373558804	1.21275425	0.014430299
Cnot6 104625	1.062146932	0.419759056	1.321723183	0.163338592
Lrrc27 76612	1.062114754	0.456521627	1.062114754	0.456521627
Commd6 66200	1.0621042	0.36058224	1.177348092	0.160770526
6430548M08Rik 234797	1.06198824	0.343691458	-1.004759129	0.486739687
Fgg 99571	1.061958809	0.307285601	-1.005555273	0.478886743
Tie1 21846	1.061926995	0.303427537	1.092759378	0.143386339
Tsc22d3 14605	1.061879741	0.354530879	1.259634224	0.050758508
Clip1 56430	1.061672378	0.417575685	-1.006967121	0.48536121
Chchd7 66433	1.061630912	0.382805943	1.061768432	0.376582716
Ndufaf3 66706	1.061501929	0.359192866	1.161863335	0.147967335
Drg1 13494	1.061480552	0.279961117	1.101833543	0.104049225
Rassf6 73246	1.061287912	0.415008046	-1.306489637	0.077879287
Gm5887 545893	1.061258918	0.467754835	-1.945954545	0.198949878
Sor11 20660	1.061230764	0.449104921	1.061230764	0.449104921
Chst14 72136	1.061168955	0.410066562	1.175910256	0.284712305
Cyp8b1 13124	1.061077899	0.40175141	1.230282131	0.191059992
Srd5a3 57357	1.060963816	0.300548873	1.052714104	0.293984939
D7Ert143e 100303645	1.060942851	0.416989789	1.352486425	0.103314539
Nhp2l1 20826	1.060882242	0.36788271	-1.011145766	0.474028376
Psmg1 56088	1.060700924	0.285322946	1.118459667	0.121906933
Scnm1 69269	1.060692052	0.406558945	1.200138972	0.244117575
41163 52398	1.060654347	0.376707425	1.060654347	0.376707425
Traf5 22033	1.06060285	0.40597247	-1.068255074	0.380822465

Hdgf 15191	1.060409853	0.105078052	1.090061254	0.027570989
Mst1 15235	1.060408412	0.225771515	-1.034700031	0.231512126
Mrpl43 94067	1.060406058	0.279713436	1.016663994	0.396811795
Psmc1 19179	1.060405412	0.25228939	1.082924681	0.101350772
Cisd2 67006	1.060295209	0.346008445	-1.000551398	0.498564601
Ensa 56205	1.06005706	0.337480454	-1.046193237	0.337300532
Rpl38 67671	1.05997361	0.401507809	-1.248344409	0.080789936
Cyp2d34 223706	1.059930483	0.47540746	-1.099033333	0.463232905
Il2ra 16184	1.059622413	0.467687086	-1.62524033	0.275850303
Csrnp1 215418	1.059539642	0.391788253	-1.054393853	0.386585531
Pfdn1 67199	1.059516148	0.40160973	1.013264364	0.452990117
Fam166a 68222	1.05947916	0.478923159	1	#DIV/0!
Top3b 21976	1.059474761	0.326653973	1.141342375	0.11437905
Glrx3 30926	1.059363246	0.365969646	1.14825885	0.214913099
Shf 435684	1.059351973	0.41570784	-1.14737226	0.284177497
Zfp704 170753	1.059339976	0.438094709	-1.224252246	0.285027752
Dohh 102115	1.059335289	0.372621223	-1.029791301	0.427882262
Slc12a2 20496	1.05932004	0.380595111	1.048314342	0.38013064
D930048N14Rik 97775	1.059295821	0.454884171	1.125489435	0.378698794
Lyrn4 380840	1.059277399	0.356571822	1.284917835	0.000161061
Klc2 16594	1.059238113	0.339550724	1.109650389	0.244765013
Ddx51 69663	1.059129974	0.381945787	1.171391329	0.171979959
Slco1b2 28253	1.05904367	0.395558561	1.195109105	0.133255001
Phb 18673	1.059028812	0.323900792	-1.091297145	0.155831488
Dync1h1 13424	1.058950039	0.336894776	-1.000558179	0.497710236
Cwc15 66070	1.058942358	0.250562367	1.131579613	0.036496497
Fbxo42 213499	1.05884909	0.339977938	-1.113203228	0.10220569
Rpl32 19951	1.058748381	0.390421627	-1.068699882	0.366050093
Apol6 71939	1.058729856	0.478854904	1	#DIV/0!
Kcnj11 16514	1.058729856	0.478854904	1	#DIV/0!
Acta1 11459	1.058729856	0.478854904	1	#DIV/0!
F13a1 74145	1.058729856	0.478854904	1	#DIV/0!
Lrrc2 74249	1.058729856	0.478854904	1	#DIV/0!
Armc3 70882	1.058729856	0.478854904	1	#DIV/0!
Gm5150 381484	1.058729856	0.478854904	1	#DIV/0!
Rims3 242662	1.058729856	0.478854904	1	#DIV/0!
Stox1 216021	1.058729856	0.478854904	1	#DIV/0!
Nkx2-6 18092	1.058729856	0.478854904	1	#DIV/0!
Ghrl 58991	1.058729856	0.478854904	1	#DIV/0!
Usp43 216835	1.058729856	0.478854904	1	#DIV/0!
Ak5 229949	1.058729856	0.478854904	1	#DIV/0!
Aldh3a1 11670	1.058729856	0.478854904	1	#DIV/0!
Cacna1s 12292	1.058729856	0.478854904	1	#DIV/0!
Trim65 338364	1.058423947	0.421086614	1.453769808	0.056552051
Atp8b1 54670	1.058380731	0.396407374	1.058380731	0.396407374
Ppa2 74776	1.058299105	0.285857517	1.002939378	0.487561901
O610007P14Rik 58520	1.058209106	0.362706569	1.276770016	0.022842332
Ptrf 19285	1.058198035	0.392866342	1.158117148	0.254129171
Atf3 11910	1.058165537	0.46253975	-1.029676965	0.483450161
Myl12a 67268	1.058065321	0.288220299	-1.013768038	0.432828271
Rps6kb1 72508	1.058057545	0.399212653	1.060284419	0.373134301
Maml1 103806	1.057934045	0.366321974	1.057934045	0.366321974
Fam13a 58909	1.057876436	0.422891222	1.46147508	0.063799628

Pdss2 71365	1.057845368	0.420827417	1.039772076	0.422159465
Mdn1 100019	1.057765338	0.409671829	-1.039454683	0.441557174
Zfp146 26465	1.057720221	0.440498622	-1.215734453	0.298671328
Gnptg 214505	1.057696785	0.291619	1.098884679	0.180783873
0610012H03Rik 74088	1.057663015	0.385101751	1.199079195	0.0997253
Ufc1 66155	1.057583571	0.337800893	1.057583571	0.337800893
Pold1 18971	1.057552945	0.43591897	1.057552945	0.43591897
Stoml1 69106	1.057519855	0.331712918	1.052452876	0.323201503
H2afz 51788	1.057435215	0.399282746	-1.217195804	0.062835776
Grb2 14784	1.057411683	0.143966452	1.123651951	0.002662088
Etf1 225363	1.057376134	0.195968547	1.094166286	0.06964865
Ccdc75 53951	1.057334465	0.32868158	-1.013591577	0.454674002
Hmgb1 15289	1.057281416	0.163296869	1.057281416	0.163296869
Stub1 56424	1.057225172	0.307840998	-1.001389446	0.494798598
Ube2z 268470	1.057147361	0.23550374	-1.001715018	0.486854431
Pus1 56361	1.057052819	0.305824804	1.014454118	0.447547795
Zfand3 21769	1.057013815	0.169289036	1.09786476	0.038873544
Syt1 269589	1.057008938	0.405874933	-1.0523086	0.416545329
Atxn7l3 217218	1.056980517	0.341356971	1.241799427	0.01454146
Slc44a2 68682	1.05697597	0.370936943	1.272184208	0.032883567
Gan 209239	1.056971339	0.468215699	1.056971339	0.468215699
1810032O08Rik 66293	1.056919574	0.432307537	1.271188813	0.241143804
Pdia6 71853	1.056873342	0.375914883	-1.048986148	0.385658661
Rps6kc1 320119	1.056821821	0.398290387	1.216661393	0.171029761
Gmeb1 56809	1.056732805	0.354771964	1.056732805	0.354771964
Nipal1 70701	1.056680988	0.395791298	1.092333876	0.303761993
Dusp4 319520	1.056633307	0.465710977	1.491127627	0.297671603
Sulf2 72043	1.05661879	0.414261866	-1.090709326	0.298004476
Slc4a8 59033	1.056479601	0.441174132	1.29730939	0.257014712
H2-T9 15051	1.056441511	0.351788118	-1.023405692	0.383534905
Cog1 16834	1.05631956	0.276480225	1.033282048	0.307798649
Orc3 50793	1.05629673	0.373331783	1.17502575	0.16149541
Hyal1 15586	1.056281392	0.386019857	1.056281392	0.386019857
Ncoa2 17978	1.056264256	0.448799233	1.36150933	0.18556115
Heatr8 381538	1.056247287	0.468449533	-1.859926552	0.19322266
Daxx 13163	1.056241143	0.36219867	-1.038830327	0.395324135
Tmem192 73067	1.05618417	0.362623524	1.1349573	0.192985846
Rapgef3 223864	1.056180164	0.412268648	-1.120911463	0.304782248
Dock9 105445	1.056096469	0.409686024	1.21010663	0.217083334
Zfp553 233887	1.056088978	0.36369151	-1.03117987	0.411032954
5730403B10Rik 66626	1.056043689	0.334255797	1.18653355	0.031838819
Npc2 67963	1.056005199	0.362852177	-1.151448248	0.033017163
Arpc5l 74192	1.056001449	0.337126182	-1.035334287	0.373486448
Lpcat2 270084	1.0559651	0.462768579	-1.588592905	0.170297701
Ccdc6 76551	1.055855807	0.264567401	-1.006476187	0.458983856
Mnat1 17420	1.055853066	0.397638688	1.190221947	0.204912242
Sdf2l1 64136	1.05579392	0.437091092	1.631022496	0.02547318
Sarnp 66118	1.055776259	0.410279069	1.055776259	0.410279069
Ccdc53 67282	1.055764203	0.378744029	1.055764203	0.378744029
Evi5l 213027	1.055721735	0.433811988	1.196270936	0.309304052
Zdhhc17 320150	1.055592328	0.433758312	1.259524294	0.251194636
Gtf2e1 74197	1.055504352	0.445281464	-1.220515186	0.307894961
Snrpb 20638	1.055450387	0.348976602	1.055450387	0.348976602

Rnf8 58230	1.05543866	0.373628012	-1.139953572	0.152899179
Adm 11535	1.055429784	0.382864623	1.055429784	0.382864623
Ubxn2b 68053	1.055310054	0.462871313	1.055310054	0.462871313
O610030E20Rik 68364	1.055291958	0.37581673	-1.068883125	0.320215297
AU022252 230696	1.055251323	0.142228768	1.024163074	0.288076573
Klc3 232943	1.055249462	0.462827911	-1.971155704	0.078069994
Rbpj 19664	1.055238358	0.384330486	1.137936389	0.23177822
Mettl11a 66617	1.055197001	0.387789507	1.23856589	0.074638499
Stac3 237611	1.054789847	0.473261891	1.255130842	0.411829119
Fdx1 14148	1.054570543	0.383918556	-1.023086523	0.447319703
Fuz 70300	1.054569799	0.381832624	1.126595861	0.220114731
Psmc5 19184	1.054550354	0.322320108	1.054550354	0.322320108
Epha2 13836	1.054534012	0.387177822	1.155490765	0.225924522
Atf1 11908	1.054474617	0.421695207	1.29516672	0.145792618
1110002B05Rik 104725	1.054439532	0.328407021	-1.004029037	0.485581938
Slc24a6 170756	1.054436138	0.366907589	-1.013798039	0.463465038
Mtg1 212508	1.054355522	0.360704549	-1.039094657	0.388116973
Ltv1 353258	1.054293048	0.40245642	1.178454097	0.189369603
Med26 70625	1.054261937	0.404174407	1.054261937	0.404174407
Ptplad1 57874	1.05419143	0.307122569	1.102582419	0.186117209
Bpnt1 23827	1.054152771	0.343071173	1.239947757	0.007367987
Taf15 70439	1.054082867	0.388307124	1.054082867	0.388307124
Tpr 108989	1.054002163	0.363978957	1.137486043	0.202510764
Ndufb10 68342	1.054000207	0.365424154	-1.052335881	0.348618012
Fbxw11 103583	1.053938911	0.41555243	-1.095935977	0.322132398
3110056O03Rik 73218	1.053841547	0.333448729	1.011665297	0.450328559
Phka1 18679	1.053730951	0.426119916	1.426562935	0.077802347
Rrp9 27966	1.053580842	0.315700639	1.18763534	0.02825545
Fat1 14107	1.053547345	0.418576869	1.200154724	0.246572953
Tm2d1 94043	1.053514047	0.446706256	1.462838761	0.147161923
Mrps10 64657	1.05350729	0.346735911	1.05350729	0.346735911
Pbx1 18514	1.053495253	0.391013301	1.141547082	0.199471078
Arfgap1 228998	1.053438619	0.195058601	1.017622871	0.369338402
C330018D20Rik 77422	1.053432831	0.437744571	1.212223225	0.263692457
Ptpn2 19255	1.053400502	0.360094101	1.164913408	0.070737093
Rab4a 19341	1.053381344	0.360291327	1.173653139	0.101529508
Pcdhga4 93712	1.053296632	0.482972668	1	#DIV/0!
Trib2 217410	1.053251363	0.454843574	-1.097085571	0.418501383
Pxmp4 59038	1.053250394	0.289953867	1.077439868	0.233917904
Mapk1 26413	1.053226371	0.372419638	1.055912235	0.278849401
Abtb1 80283	1.053220393	0.314567429	1.00735939	0.473252148
Gpc6 23888	1.053171252	0.437766867	1.255132388	0.200746292
Nme7 171567	1.052981404	0.407692315	-1.095244964	0.328265048
lfngr2 15980	1.052911431	0.351256881	1.115769048	0.200939449
Fus 233908	1.052897257	0.379073497	1.035376639	0.369441752
BC031181 407819	1.052863579	0.301919477	1.052863579	0.301919477
Hnrnpk 15387	1.052736968	0.33245029	1.096110131	0.224675498
Exoc3l 277978	1.052717403	0.408299688	1.00080909	0.498612146
Atp1b3 11933	1.052647013	0.346204489	1.109819467	0.223637775
Tchp 77832	1.052643159	0.376408708	1.093851463	0.301268008
Mlx 21428	1.052570957	0.352436763	-1.110288084	0.134312545
Grhpr 76238	1.052498791	0.358852954	1.162424387	0.118067019
Ppp1r15b 108954	1.052490792	0.367024915	1.052490792	0.367024915

Gm6525 624713	1.052371771	0.474664292	1.178571429	0.43416
Fam25c 69134	1.052350366	0.433828434	-1.211731089	0.230657108
Cmc1 67899	1.052342599	0.39129722	-1.040931791	0.405424457
Col5a3 53867	1.052324368	0.430584742	1.026415415	0.448582492
Calm2 12314	1.052260528	0.334441434	1.052260528	0.334441434
Zdhhc7 102193	1.052229302	0.335252984	1.118382411	0.177794887
Rps25 75617	1.052217526	0.37208387	-1.117856819	0.174115652
Zfp161 22666	1.052216219	0.427504721	1.052216219	0.427504721
A430005L14Rik 97159	1.052198305	0.356068463	1.094722383	0.264329093
Ahcy1 229709	1.05219701	0.393109732	1.284398922	0.05711628
Zfp933 242747	1.052148515	0.439907673	1.075201585	0.410595076
Preli2 77619	1.052023731	0.448290896	1.351739801	0.230183384
Tgds 76355	1.052018645	0.40824618	1.209453859	0.120982041
Vrk1 22367	1.051998157	0.40604068	1.044335979	0.404210433
Tnfrsf26 244237	1.051934246	0.461822982	1.051934246	0.461822982
Rnf11 29864	1.051853837	0.387152024	-1.040933679	0.409250969
Vhl 22346	1.051839811	0.363287675	-1.066271931	0.269874871
Gpihbp1 68453	1.051803328	0.387009795	1.055907388	0.342788987
Vdac2 22334	1.051738988	0.340374077	1.027741442	0.364495376
Zfp238 30928	1.051657002	0.402253658	1.12248861	0.213860626
Pard6g 93737	1.051619067	0.471081746	1.051619067	0.471081746
Pycr2 69051	1.051585999	0.41098804	1.051585999	0.41098804
Zfp84 74352	1.051538293	0.439949275	-1.145865814	0.275944095
Thap6 381650	1.051529207	0.421239571	1.051529207	0.421239571
Med13 327987	1.051453867	0.394767155	1.249881944	0.044954876
Isca1 69046	1.051448919	0.333889368	1.131767448	0.111120227
Gfm1 28030	1.051395379	0.395568946	1.200198858	0.147337514
Mxd1 17119	1.051221916	0.401341275	1.166897915	0.18880935
P4ha2 18452	1.051103207	0.409083043	1.051103207	0.409083043
Ndufa13 67184	1.051020749	0.412123052	-1.079675453	0.363800207
Spryd4 66701	1.050984071	0.374652112	-1.150622904	0.07312724
Gm13611 622534	1.050937446	0.435198347	-1.205252929	0.239862322
Zfml 18139	1.050908421	0.425589977	-1.271318125	0.132886456
Rpl29 19944	1.050904067	0.418335496	-1.121929649	0.299145944
Hgd 15233	1.050898606	0.324403834	1.050898606	0.324403834
Angptl4 57875	1.050791998	0.316493024	1.114327556	0.142884614
Afap1 70292	1.05075476	0.468084928	-1.281066738	0.335869801
Impa1 55980	1.05069354	0.354983967	1.232534106	0.015739895
Mapk13 26415	1.050648653	0.466112809	-1.521596721	0.24318857
Rab5b 19344	1.050582585	0.246537068	1.14268588	0.008292959
Tbc1d30 74694	1.050573476	0.421334937	-1.020792744	0.462789114
Zfyve19 72008	1.050565573	0.34452806	-1.077473814	0.191564914
Larp7 28036	1.050365002	0.396882201	1.050365002	0.396882201
Gpr68 238377	1.050347384	0.463103365	1.050347384	0.463103365
Arfp2 76932	1.050309658	0.372793055	-1.038609017	0.383755999
Agap1 347722	1.050308884	0.35020742	1.221796888	0.015424929
Hinfp 102423	1.050216166	0.455824589	1.606793227	0.110951371
Cnbp 12785	1.050214831	0.336926772	1.1266631	0.142339072
Slamf8 74748	1.050097764	0.47184832	1.998609651	0.185167526
AW209491 105351	1.050072992	0.403336525	-1.085627557	0.290154971
H2-Ke2 14976	1.049969696	0.410756068	1.049969696	0.410756068
Ccdc93 70829	1.049968769	0.378465908	1.121582077	0.22584182
2310061J03Rik 66391	1.049929987	0.411920597	-1.080121227	0.358838888

Arl11 219144	1.049875847	0.466464889	-1.358507869	0.317300187
Gm6654 626175	1.049758437	0.383513041	1.053253589	0.33131161
Saal1 78935	1.049510018	0.433515613	1.028064249	0.446028134
1110051M20Rik 228356	1.04949852	0.445597683	1.144845445	0.317801845
Mtx1 17827	1.049439524	0.388997208	-1.052293392	0.376845898
Timm13 30055	1.049409263	0.409479658	1.081196085	0.328703497
Chad 12643	1.049166111	0.473925396	-1.968383838	0.195840227
Gle1 74412	1.04914493	0.35415994	-1.089945394	0.198574647
Fkbp4 14228	1.049094199	0.387781195	-1.018278947	0.432173602
Mybbp1a 18432	1.049088365	0.321459753	1.040721473	0.304066022
Mam13 433586	1.049014894	0.425040784	-1.125693186	0.294355732
Adrb3 11556	1.049014799	0.445469304	1.282111314	0.250134728
Lap3 66988	1.048942832	0.259212245	-1.001359708	0.491020158
Rnf13 24017	1.048901111	0.418110256	1.100960142	0.316979315
Rpp14 67053	1.048873624	0.345306767	1.188630477	0.045998453
Gja4 14612	1.048867905	0.338286219	1.047897675	0.260439467
Ankrd28 105522	1.048849552	0.429474563	1.190686238	0.233636388
Mrpl28 68611	1.048802053	0.419507117	1.24724495	0.150854463
Nhs12 100042480	1.048774515	0.433945025	1.294371581	0.169548496
Med9 192191	1.048725176	0.319860441	1.098937773	0.068168361
Chst13 71797	1.048724181	0.416593356	-1.083875058	0.358269833
Tha1 71776	1.048703447	0.38910602	1.153909744	0.19722371
Clu 12759	1.048694672	0.351778886	-1.028920092	0.400361555
Cenpa 12615	1.048600629	0.45737984	-1.038179648	0.464023008
4921513D23Rik 223989	1.048578873	0.338352657	1.049205688	0.283587022
Alkbh5 268420	1.048523621	0.253503721	1.067128033	0.108232403
Pstpip1 19200	1.048453505	0.462874026	1.442046654	0.256672771
Ctbs 74245	1.048434167	0.409152071	1.351611768	0.016571407
Ube4b 63958	1.048423477	0.30191571	-1.02273674	0.350244946
Dennd1b 329260	1.048350453	0.454392735	-1.554566441	0.08793987
4930579G24Rik 75939	1.048313939	0.454472086	1.704781267	0.057886952
Mosc2 67247	1.048291154	0.179885708	1.013235232	0.37116271
Znf512b 269401	1.048179542	0.420780298	1.048179542	0.420780298
Comm9 76501	1.048175919	0.433777705	1.002490621	0.495946851
Syt15 319508	1.048131501	0.438133211	1.436941739	0.096659449
Bod1 69556	1.048096944	0.346377242	-1.048356764	0.286775016
1110038F14Rik 117171	1.04809223	0.399428148	-1.10528118	0.23639053
1810027010Rik 69186	1.048034504	0.428453382	-1.18026315	0.211498899
Myo1b 17912	1.048027123	0.401452713	1.190930429	0.159238374
Etaa1 68145	1.047994359	0.462833131	1.577597564	0.188040321
Add1 11518	1.047978867	0.3052414	1.047978867	0.3052414
H1f0 14958	1.047971982	0.329916143	1.158308393	0.056955807
Lrp5 16973	1.047950329	0.345435372	1.047950329	0.345435372
Cp 12870	1.047874439	0.391552834	-1.040284849	0.407555048
Cbx1 12412	1.047860548	0.38677149	1.030023551	0.40251499
Ano10 102566	1.047823409	0.383216244	-1.134427424	0.151053648
Akt2 11652	1.047818718	0.302575667	1.042397474	0.245369093
1500012F01Rik 68949	1.047800144	0.416341455	-1.072173275	0.376702929
Crybg3 224273	1.047705428	0.422058867	1.047705428	0.422058867
Lsm2 27756	1.047697451	0.384509641	1.047697451	0.384509641
Traf3 22031	1.047688303	0.442980204	1.337615115	0.173458508
Prep1 19072	1.047662402	0.362692535	1.095907433	0.087861098
1810013L24Rik 69053	1.047650814	0.390189967	1.198928748	0.090436735

Pgm3 109785	1.047622538	0.451485184	1.047622538	0.451485184
Mepce 231803	1.047617733	0.383236107	-1.141634357	0.093579333
ltpa 16434	1.047562359	0.298312879	-1.01717157	0.399913451
Rabep1 54189	1.047549017	0.388131319	1.084751981	0.258238711
Ppp1r11 76497	1.04751619	0.340413538	1.04751619	0.340413538
Nt5c3 107569	1.047486301	0.363342403	1.19181163	0.058366165
Gatad2a 234366	1.047335774	0.205548757	1.080582554	0.07871334
Zfp827 622675	1.047269823	0.466562225	1.047269823	0.466562225
Lgi4 243914	1.04726355	0.467083044	1.607982192	0.216077246
Stoml2 66592	1.04719803	0.331448507	-1.037153313	0.286696563
Tmub1 64295	1.047161684	0.421760135	1.047161684	0.421760135
Anxa4 11746	1.047085668	0.375994126	1.001450647	0.494743433
Zfp316 54201	1.047029791	0.396332895	1.047029791	0.396332895
Ctu2 66965	1.047011634	0.4216477	1.188870898	0.187724679
Sqstm1 18412	1.04695866	0.330163097	1.04695866	0.330163097
Snrpa1 68981	1.046927123	0.34380414	-1.008886957	0.468712409
Ankrd13c 433667	1.046912746	0.435923492	1.046912746	0.435923492
Mrpl11 66419	1.04683162	0.351955262	-1.029351122	0.383774767
Gfra1 14585	1.046830408	0.426842745	1.041888343	0.438885553
Osbpl7 71240	1.046787784	0.412389278	1.168536054	0.191177688
Pafah1b1 18472	1.04676513	0.353303579	1.04676513	0.353303579
Gsto1 14873	1.04671636	0.213208499	1.04671636	0.213208499
Ciao1 26371	1.046640892	0.352488115	-1.103561845	0.095162994
Ppp4c 56420	1.046625704	0.412626578	-1.069604691	0.37055003
Rtn4r1 237847	1.046591779	0.335481157	1.046591779	0.335481157
Doc2a 13446	1.046524843	0.437948668	1.046524843	0.437948668
Tbx3 21386	1.046523573	0.4364452	1.046523573	0.4364452
Golga2 99412	1.046505478	0.329261324	1.046505478	0.329261324
Smarcd1 83797	1.04643864	0.411394424	1.184035717	0.144675885
Terf2ip 57321	1.046327049	0.351836512	1.129500918	0.098773012
Pbxip1 229534	1.046215897	0.303452471	-1.021080398	0.372510481
Appl2 216190	1.046178332	0.411279191	-1.021756262	0.450105054
Nab2 17937	1.04617662	0.356232168	-1.018456152	0.434340812
A230046K03Rik 319277	1.046125631	0.427722957	1.046125631	0.427722957
Clec2d 93694	1.046119972	0.407324672	-1.092433992	0.299045091
Adrbk2 320129	1.045954062	0.458537381	1.437876758	0.204721188
Tubb4a 22153	1.045883462	0.476788533	-2.597803724	0.094986309
Psmc6 67089	1.045857736	0.4053912	-1.04416738	0.410584722
Hmox2 15369	1.045832514	0.375952087	1.045832514	0.375952087
Mrps24 64660	1.045778112	0.377004326	-1.121189137	0.133604322
Nenf 66208	1.045745837	0.441433771	-1.034329296	0.450275874
Zfp637 232337	1.045736321	0.357941536	1.045736321	0.357941536
Acap3 140500	1.045727372	0.430694447	1.379233784	0.065282343
Scamp1 107767	1.04571433	0.440350723	1.104600296	0.347368017
H2-Q8 15019	1.045680531	0.393982094	1.140135801	0.218747916
Rps4x 20102	1.04552847	0.405131177	-1.057160725	0.3801631
Gramd3 107022	1.04538473	0.371678501	-1.039308899	0.37722193
M6pr 17113	1.045348458	0.321066021	-1.015769012	0.425329241
Nop10 66181	1.045208127	0.350126417	-1.089188119	0.126902733
Mdh1 17449	1.045194302	0.288387106	1.018569141	0.350783567
2810004N23Rik 66523	1.045184664	0.275925891	-1.00134802	0.491279079
Serpina3h 546546	1.045182045	0.4734906	1.676433559	0.250918887
Leprot 230514	1.045106158	0.381574103	1.007194569	0.467251711

Map3k9 338372	1.044927387	0.474759578	1.044927387	0.474759578
Ahsa2 268390	1.044904693	0.414731871	1.301924614	0.062338759
Taf4a 228980	1.044874614	0.445351505	1.368443511	0.131551041
Fam19a2 268354	1.044843054	0.460079045	1.044843054	0.460079045
Irx3 16373	1.044829265	0.473844241	-1.050159484	0.473962888
Tmem57 66146	1.044810113	0.349781705	-1.016146022	0.437618098
Ruvbl1 56505	1.044791388	0.36219195	1.090607435	0.257993588
Pigh 110417	1.044688494	0.453113978	-1.307552335	0.200902064
Jmjd4 194952	1.044672852	0.410276633	1.15087092	0.240069466
Mpzl2 14012	1.04466721	0.412536628	1.206374629	0.145607222
Spata22 380709	1.044655819	0.472348623	1.570378755	0.26713503
2300009A05Rik 69478	1.04465235	0.416838891	-1.202058116	0.133463688
Pbx2 18515	1.044333167	0.345977161	-1.089029634	0.118312548
Rnaset2b 68195	1.044196974	0.416851186	-1.094216763	0.317317503
Tmem87a 211499	1.044180319	0.439313104	1.044180319	0.439313104
Pygo2 68911	1.044060614	0.363572616	1.189592877	0.046383864
Smarcc1 20588	1.044041386	0.365438782	1.166122146	0.038495838
1600029D21Rik 76509	1.043910882	0.427844739	1.233868492	0.170387604
Ankrd46 68839	1.043909915	0.412813771	1.280903219	0.051146032
Nup155 170762	1.043875721	0.404953588	1.193060863	0.128363409
Fam86 70511	1.043855548	0.428549753	-1.091150262	0.357342623
Parva 57342	1.043843344	0.275545139	-1.000014169	0.499911077
Fmo5 14263	1.043705453	0.3715978	1.152396721	0.0973439
Ssbp2 66970	1.043691466	0.467163718	1.460557681	0.253663621
Eif1b 68969	1.043683365	0.399979041	1.115752399	0.253601916
Fbxo8 50753	1.043649422	0.354593323	-1.018687929	0.428096778
Hexdc 238023	1.04348564	0.417609677	-1.074922681	0.337619517
Rpl7a 27176	1.043371777	0.378146972	1.043371777	0.378146972
Rusc2 100213	1.043366074	0.41036704	1.315747863	0.015621796
Acadvl 11370	1.0433487	0.339538645	1.076300285	0.245776823
Itpr1 16438	1.043277851	0.435483923	1.446264703	0.017267386
Iffo1 320678	1.043181029	0.421441344	-1.106751946	0.253130682
Kdm5a 214899	1.04307399	0.411696518	1.151709386	0.232142595
Ldha 16828	1.043034795	0.311241637	1.043034795	0.311241637
Spnb1 20741	1.042825451	0.438819204	1.023844787	0.458512866
Tpm4 326618	1.042811319	0.387128454	-1.039795664	0.379130786
Plekhg5 269608	1.042808789	0.434868425	-1.136813849	0.246283824
Setd8 67956	1.042761216	0.335538092	-1.010102966	0.457432144
Pdia4 12304	1.042759187	0.404629827	1.107860355	0.178010739
Nsmce4a 67872	1.042683449	0.379675387	1.052895245	0.269463596
Cygb 114886	1.042649758	0.391456043	-1.074278843	0.149683471
Ubl5 66177	1.042517285	0.40556746	1.047294182	0.363680359
Nudc 18221	1.042514897	0.377735391	1.093377184	0.254264687
Eif4e2 26987	1.042428881	0.168062973	1.038555402	0.118559341
Ttyh3 78339	1.04233425	0.402067124	-1.046371859	0.380409109
Usp6nl 98910	1.042127469	0.457977596	1.498920319	0.113663649
Socs7 192157	1.042109239	0.416286242	1.186218321	0.17683478
Zfp326 54367	1.042098303	0.410397285	-1.157415284	0.16052878
Ap2m1 11773	1.042075856	0.304438608	-1.017541985	0.378845932
Tm6sf1 107769	1.042061804	0.471485723	2.472755473	0.008963823
Pmpcb 73078	1.042056085	0.289117385	1.042056085	0.289117385
Rasgef1b 320292	1.042054199	0.415492731	1.159220039	0.223985943
Zfp932 69504	1.042036582	0.458964909	1.384357896	0.211368203

Gpx3 14778	1.042036111	0.426871401	-1.075375196	0.3743024
Armcx3 71703	1.041784249	0.418963809	1.179736968	0.197951383
Tmem64 100201	1.041709693	0.420982848	1.149218016	0.167805259
Trim27 19720	1.04153422	0.409184376	-1.095316825	0.264875932
Clns1a 12729	1.041526075	0.354802517	1.042346024	0.332459728
Cnot7 18983	1.041516234	0.440816261	1.076555219	0.380842365
BC016495 225994	1.041504523	0.411015425	1.147754257	0.15792041
Nck1 17973	1.041438576	0.451620836	-1.112527997	0.362499838
Ap3s2 11778	1.041329441	0.3262756	1.041329441	0.3262756
Rnf139 75841	1.04125162	0.435524391	-1.244976859	0.154567868
Prkrip1 66801	1.041228212	0.387701975	1.033158905	0.397350654
Heatr3 234549	1.041134807	0.386745485	1.111076625	0.212495632
Pkig 18769	1.041121795	0.362490215	-1.016795055	0.441055946
Vegfb 22340	1.041104475	0.441094293	-1.331364444	0.048911348
Arnt 11863	1.04109199	0.420432797	1.326427468	0.019855119
Dennd5a 19347	1.041064271	0.427961045	1.191811057	0.211419293
Map1lc3b 67443	1.041043672	0.302135661	1.021515493	0.399469715
Itga1 109700	1.040977649	0.447483451	1.128811049	0.284499114
D130043K22Rik 210108	1.040797457	0.46879859	1.102644747	0.417911906
Sucla2 20916	1.04073793	0.361207587	1.038333359	0.249344188
Zfp740 68744	1.040718533	0.410240903	1.067860591	0.299667405
Itsn1 16443	1.040711687	0.379470511	1.069927812	0.245870608
D19ErtD386e 52013	1.040691163	0.408215423	-1.131117315	0.078688399
Rcbtb1 71330	1.040682857	0.361648098	1.186322308	0.02374231
Gchfr 320415	1.040670437	0.432801096	-1.150149504	0.23937959
Rab2b 76338	1.040610708	0.463383537	-1.245433755	0.315882053
4933439C10Rik 74476	1.040588313	0.447069642	-1.151284521	0.268479841
Api5 11800	1.040584024	0.34566109	1.017410292	0.402510509
Camk2g 12325	1.040564127	0.440350022	1.424159469	0.040416191
Rasd1 19416	1.040516294	0.448108028	1.315125143	0.165317412
Srm 20810	1.040432866	0.404800345	-1.060343997	0.352043218
Ptprd 19266	1.040298374	0.403673045	1.129170445	0.203239233
Junb 16477	1.040233867	0.439452258	1.040233867	0.439452258
Dusp3 72349	1.040216437	0.339350187	1.068873369	0.204790453
Gltp 56356	1.04012456	0.412895899	-1.031084569	0.402724905
Rhobtb1 69288	1.040086241	0.406731354	-1.085713843	0.274881236
Rnf144b 218215	1.04007826	0.427147666	1.384261311	0.002340552
Rbfa 68731	1.040076154	0.40335319	-1.055589019	0.361031504
Amdhd1 71761	1.040066353	0.349884092	1.105386268	0.15078022
Trmt12 68260	1.039986625	0.411781141	1.168116648	0.172689812
1110059G10Rik 66202	1.039986142	0.447693577	-1.023695845	0.466642994
Ormdl1 227102	1.039949475	0.411007192	1.130331081	0.248705106
Zfp423 94187	1.039833438	0.477381501	-2.121330272	0.121092804
PsmD8 57296	1.039801903	0.382643961	1.091781581	0.251272411
Efcab4a 213573	1.03979129	0.432807326	-1.068090611	0.378477084
Trp53inp2 68728	1.039762776	0.323719171	1.117191385	0.035158092
Esrra 26379	1.039747424	0.397520233	1.039747424	0.397520233
Chmp6 208092	1.039523368	0.381291095	-1.002319867	0.49324376
Hspbp1 66245	1.039497276	0.426386259	1.037086949	0.421089195
Chpf2 100910	1.039453758	0.402610588	-1.146039259	0.10940207
Leng1 69757	1.039393188	0.40346209	1.078795837	0.325082768
Myl12b 67938	1.039347027	0.294038939	1.027914583	0.236502233
Otud4 73945	1.039242916	0.435253304	1.039242916	0.435253304

Myo1e 71602	1.039214869	0.376204226	1.046548787	0.277137188
Acaa1b 235674	1.039115686	0.410060203	1.039115686	0.410060203
Serpina3m 20717	1.039110218	0.42489637	1.313210514	0.033940662
2210015D19Rik 76508	1.039059379	0.421361747	1.091425041	0.332315242
Msi2 76626	1.039015915	0.425936687	1.197217957	0.171845936
Prpf19 28000	1.038955151	0.248180015	1.038955151	0.248180015
Mphosph9 269702	1.038944094	0.459841762	1.583041265	0.074068933
Mnt 17428	1.038901869	0.441417824	1.062538005	0.38548346
Tcp1 21454	1.038874116	0.262354346	1.081102511	0.072562986
C230081A13Rik 244895	1.038801134	0.430746758	-1.210886773	0.101154457
Cdc42se1 57912	1.038787486	0.314090138	1.038787486	0.314090138
Rnf40 233900	1.038776718	0.35849918	1.038776718	0.35849918
BC002163 170658	1.038702161	0.418497781	1.055690883	0.344353784
Spcs2 66624	1.038655727	0.400362262	1.038655727	0.400362262
Mfhas1 52065	1.038634588	0.394213144	-1.056735572	0.30456528
Tmem141 51875	1.038624344	0.44704636	-1.079535461	0.314750811
Fam174a 67698	1.038615875	0.447452296	1.405734351	0.082701323
Hectd1 207304	1.038589451	0.417817738	1.278511524	0.045120293
Upf1 19704	1.038571555	0.293939408	-1.003260556	0.478260303
2310003C23Rik 76425	1.038562985	0.374743903	1.117125484	0.128013223
Rpusd3 101122	1.038550652	0.432762468	1.209319602	0.183421732
Clec4a1 269799	1.038537309	0.450295223	1.038537309	0.450295223
Tradd 71609	1.038439764	0.388450109	-1.067704656	0.256008793
Ube2d2 56550	1.038307688	0.364040314	-1.015817483	0.420939383
Grasp 56149	1.038307146	0.421836239	1.208702004	0.115613461
Rapgef4 56508	1.038254046	0.446043621	1.224019235	0.2362299
Atp6v1f 66144	1.038179674	0.40642296	-1.049714869	0.37621942
Lsm4 50783	1.038107358	0.422354234	1.038107358	0.422354234
Rilpl2 80291	1.03808435	0.391830741	-1.015003179	0.458334131
Aif1 108897	1.038041005	0.480181115	-2.514459712	0.094684578
Csnk2b 13001	1.037959701	0.397120586	1.037959701	0.397120586
Zfp703 353310	1.037854839	0.407586192	1.215030887	0.067692377
Sec24d 69608	1.037853391	0.441912304	-1.145084853	0.282190578
Ccpg1 72278	1.037852176	0.385633739	1.137687179	0.122654832
Nosip 66394	1.037833695	0.377521907	-1.093306552	0.176891134
Polr2f 69833	1.037821613	0.407763573	-1.065080722	0.331979824
Ddx6 13209	1.037810978	0.373358506	1.116767575	0.150044394
Atf6b 12915	1.037807175	0.373413293	-1.022903402	0.373099052
Efnb1 13641	1.037723987	0.40271795	-1.009559498	0.475381101
Mcart6 67062	1.037609224	0.459717202	1.235327852	0.250688934
Tprgl 67808	1.037602379	0.251281335	1.056798261	0.167958696
Sirt4 75387	1.037477259	0.429821661	-1.083582085	0.322965312
Trp53 22059	1.037277498	0.370684518	1.037277498	0.370684518
Ndufv1 17995	1.037160924	0.344585752	1.078277338	0.200502989
Fev 260298	1.037151403	0.481934061	1.170129778	0.437059136
Zfp771 244216	1.037033799	0.442643106	-1.176420531	0.217838669
Slc6a6 21366	1.036946045	0.410064073	-1.171971761	0.030065014
Hif1an 319594	1.036908688	0.39574058	1.109020924	0.207105065
Rtf1 76246	1.036884072	0.400678094	1.061607156	0.28178943
Map4k1 26411	1.036756663	0.466315338	-1.44863836	0.140681049
2900092E17Rik 67278	1.036748069	0.430614025	-1.11045224	0.285517018
Zfp113 56314	1.036727857	0.450492395	-1.05698373	0.424140714
Gpr180 58245	1.036672736	0.377717723	1.102960845	0.196367065

Vps28 66914	1.03664452	0.373844311	1.081216135	0.076204017
Pgap3 320655	1.036581761	0.432180953	1.036581761	0.432180953
Ap1s1 11769	1.036390851	0.378970526	1.084611559	0.240828038
Cd320 54219	1.036390423	0.441945932	1.017455104	0.445881987
Ndufb9 66218	1.036389332	0.41612047	-1.059672507	0.36156747
Rtn2 20167	1.036388056	0.474974131	1.411630972	0.230431711
Ddit3 13198	1.036328546	0.451015349	-1.039503374	0.425199032
Mtfp1 67900	1.036311471	0.379256957	1.089997325	0.237512804
St5 76954	1.036188438	0.384088745	-1.016411979	0.444418113
Dctn3 53598	1.036184775	0.337881678	1.036184775	0.337881678
Mfsd5 106073	1.036177618	0.342658987	1.081227904	0.173616135
Ywhaq 22630	1.036137499	0.35109594	-1.007280623	0.4686964
Rbm3 19652	1.036092207	0.425606633	-1.110391281	0.252632246
Tsc22d2 72033	1.03601744	0.446071885	-1.116043316	0.338053941
Mogs 57377	1.035994309	0.366368766	-1.002701672	0.490037185
Bckdhhb 12040	1.035866023	0.379029422	1.099758085	0.202439823
Adat1 30947	1.035830054	0.41759194	-1.0913058	0.219303429
Tgfbr3 21814	1.035803691	0.441309601	1.417712684	0.005556594
Rab32 67844	1.035787555	0.412003628	1.035787555	0.412003628
Prdm4 72843	1.035739798	0.452317248	1.035739798	0.452317248
Flywch2 76917	1.035707672	0.461699524	1.151176346	0.342582252
Creb3 12913	1.035676868	0.365062845	-1.015859629	0.39224967
Scaf11 72193	1.035542388	0.375376577	1.09580224	0.182024785
Fpgs 14287	1.035533978	0.313680692	1.035533978	0.313680692
F9 14071	1.035434098	0.340967794	-1.019752337	0.394598589
Pdcd11 18572	1.035417946	0.397881915	1.117724638	0.167989424
Khsrp 16549	1.03534671	0.319586362	-1.051503699	0.164037123
Dpagt1 13478	1.035278514	0.377855	1.115991036	0.098225013
Marveld1 277010	1.035204851	0.416669229	-1.054432311	0.371372599
Tatdn1 69694	1.03517402	0.435455158	1.100189768	0.307252477
Slc16a10 72472	1.035115635	0.362918284	1.035115635	0.362918284
Ly6d 17068	1.035112766	0.466921851	-1.059234226	0.437750051
Cebpd 12609	1.035072685	0.412376255	-1.001545342	0.494573113
Copb1 70349	1.035062062	0.428012008	1.094163527	0.199711866
Kbtbd4 67136	1.035018355	0.394061625	-1.022676486	0.43166056
Raf1 110157	1.034986035	0.340136026	1.098615665	0.092916058
Med20 56771	1.034980995	0.419105678	1.171814496	0.139729053
Cox4nb 18117	1.034969951	0.345574768	1.003327014	0.480879551
Entpd1 12495	1.034956081	0.415063414	1.251409356	0.01962271
Klhl5 71778	1.034934276	0.426618924	1.126376341	0.246136082
Clic1 114584	1.034924036	0.393212606	1.112146658	0.194970811
Asgr1 11889	1.03473217	0.30221865	-1.006159361	0.455610188
Npdc1 18146	1.034676098	0.451280329	1.192022443	0.231823885
As3mt 57344	1.034609817	0.399398974	1.136197928	0.139517103
Jtb 23922	1.034560203	0.420731279	1.040315899	0.395545044
Vamp5 53620	1.034486848	0.407583777	-1.053478745	0.230931982
Eny2 223527	1.034456438	0.358000262	-1.061369933	0.217666382
Vkorc11l 69568	1.034418517	0.447915315	1.034418517	0.447915315
Scyl1 78891	1.034300916	0.381830654	1.034300916	0.381830654
Stard7 99138	1.03426648	0.347325339	1.087410945	0.153023594
Darc 13349	1.03425913	0.475022835	-1.208652636	0.361353141
Xpo6 74204	1.034141916	0.342663868	1.073473537	0.189265331
Tshz2 228911	1.034088455	0.441694752	1.366000979	0.022912932

Znhit2-ps 29805	1.034044569	0.423712034	1.034044569	0.423712034
Map4k5 399510	1.033931005	0.440677813	1.033931005	0.440677813
Get4 67604	1.03390446	0.39037791	1.112982287	0.171691727
Irs1 16367	1.033883562	0.455483575	1.033883562	0.455483575
Irf8 15900	1.033847549	0.404824894	1.033847549	0.404824894
CamI 12328	1.033723119	0.304901009	-1.034442946	0.260643142
Rilpl1 75695	1.033690519	0.428851408	1.032821678	0.423811641
Smcr8 237782	1.033681734	0.406967697	1.12519811	0.191007203
Gpt2 108682	1.033607405	0.410962032	1.211316911	0.044825041
Mapkapk2 17164	1.033463284	0.331098421	-1.025999253	0.294684101
Pde2a 207728	1.033365011	0.387439306	1.105246855	0.181940333
Cul2 71745	1.033180987	0.419673583	-1.094038574	0.240965787
Pcdhga8 93716	1.033166051	0.488590015	-1.2762	0.173296754
Nom1 433864	1.033129914	0.417337619	1.248934385	0.013130731
Vps39 269338	1.033063599	0.425667899	1.137026941	0.229520246
Tnfrsf1b 21938	1.033007379	0.396025881	-1.046817649	0.338343432
Rps11 27207	1.032975481	0.427589867	1.030688185	0.440251234
Pnpla8 67452	1.032969853	0.426905907	1.126675062	0.255158148
Abcb6 74104	1.032922357	0.349315108	1.08426284	0.134578579
Actr3 74117	1.032891906	0.376946624	1.093226983	0.166212865
Nme1 18102	1.032856738	0.415340399	-1.059497747	0.321967056
Nrtn 18188	1.032842049	0.473454408	-1.331147262	0.28901939
Rbm6 19654	1.032728399	0.429099706	-1.101213717	0.265808223
Mxra8 74761	1.032717737	0.41919838	-1.049495907	0.3670167
Ccdc72 66167	1.032603332	0.359558608	1.032603332	0.359558608
Sart1 20227	1.032599905	0.36426803	-1.033521102	0.312373465
Mapk7 23939	1.032568222	0.432338558	1.036574575	0.427425685
Xrn2 24128	1.032562676	0.421619046	1.227595028	0.062285366
Tmem147 69804	1.032406509	0.395647116	1.012935034	0.441169749
Gm10845 100038734	1.032388599	0.472591351	1.150923	0.355490412
Stk38 232533	1.032233558	0.453261447	1.032233558	0.453261447
Tmem176a 66058	1.032224274	0.426741409	-1.12356619	0.156874689
Slc7a2 11988	1.032207886	0.443890203	1.205385445	0.186762235
Stk4 58231	1.032148689	0.449223488	-1.008036019	0.480123257
Rbmxl1 19656	1.032053382	0.367478764	-1.088930452	0.039159547
Ascc2 75452	1.03204562	0.417752914	1.134169576	0.191496489
Slc33a1 11416	1.032009403	0.421609444	1.03739481	0.380197245
Gne 50798	1.031997401	0.42758426	1.031997401	0.42758426
Ppip5k2 227399	1.031883589	0.459590845	1.332356762	0.046705623
Ranbp6 240614	1.031870883	0.459109333	1.207769874	0.232487438
Rbbp6 19647	1.031771721	0.425053834	1.178732661	0.107866629
Il34 76527	1.031640103	0.437860722	1.129641595	0.250743494
Sema6b 20359	1.031629776	0.448900322	-1.180638529	0.195339204
Ccnf 12449	1.031626443	0.448449599	-1.017159558	0.46895777
Eef1g 67160	1.031552779	0.393806346	1.031552779	0.393806346
Supv3l1 338359	1.03154544	0.412040922	1.03154544	0.412040922
Cib1 23991	1.031466745	0.403577523	-1.0245188	0.425941549
9130011E15Rik 71617	1.03140539	0.457017805	-1.357366023	0.04944249
Gm4980 245190	1.031309202	0.410958798	1.031309202	0.410958798
1700021F05Rik 67851	1.031241934	0.410701956	1.113953368	0.179101446
Zfand2a 100494	1.031222663	0.466278931	1.272892174	0.26462553
Fgfr1op2 67529	1.030997305	0.39753553	1.107668883	0.146780797
Srd5a1 78925	1.030988231	0.422652986	1.122096218	0.230451784

Fam167b 230766	1.030956762	0.441893877	1.030956762	0.441893877
Snhg3 399101	1.030914058	0.451708131	1.058444277	0.35374077
Spg20 229285	1.030870905	0.398004914	1.115046654	0.152445761
Tmem93 66048	1.030789781	0.41174691	1.040585666	0.336052617
Ctnnd1 12388	1.030763592	0.285887926	1.006539734	0.449926783
Ank 11732	1.030659975	0.456069988	1.191633692	0.269568438
Cobl 12808	1.030607321	0.448182822	1.120472552	0.308769326
Nt5c 50773	1.03056609	0.447097481	-1.115650863	0.306912105
Eif3f 66085	1.03054027	0.392959494	-1.049126367	0.274189505
Cul1 26965	1.030403248	0.407541861	-1.028140048	0.409900173
Rnf7 19823	1.030383565	0.389720505	1.100174412	0.170539175
Ubxn1 225896	1.030378523	0.432843544	-1.06321177	0.364318072
3200002M19Rik 75430	1.030362211	0.434112666	1.030362211	0.434112666
Adrb2 11555	1.030282449	0.476599463	1.600726015	0.175319646
Nrxn2 18190	1.03021243	0.445502735	-1.079038181	0.348885187
Rbm22 66810	1.030203079	0.447030745	-1.12262979	0.289438401
Akap11 219181	1.030174637	0.408576164	-1.050689886	0.318613681
6720456B07Rik 101314	1.030164874	0.39574189	1.042928472	0.326940898
Actr5 109275	1.030123986	0.415358396	1.055331038	0.310450453
Smek1 68734	1.030097816	0.397964029	1.030097816	0.397964029
Cpne5 240058	1.03008618	0.47668013	2.00598855	0.039286495
Fam116a 211922	1.030024585	0.422871558	-1.033838059	0.395079482
Usp4 22258	1.030018706	0.308527363	1.021634451	0.315413265
Gpr107 277463	1.029932848	0.416137971	1.029932848	0.416137971
Serpina1a 20700	1.029907427	0.419093664	-1.159676216	0.030401264
Phf8 320595	1.029717629	0.432273902	1.178872575	0.121717459
Dbt 13171	1.029691484	0.443398516	1.236393591	0.079097585
Cfi 12630	1.029616528	0.33814443	1.029616528	0.33814443
Eef1a1 13627	1.029600776	0.402134168	-1.117327514	0.073450869
Psm6 66413	1.029562918	0.384102118	1.073234194	0.246013182
Mtmr6 219135	1.029527696	0.461469678	1.489391889	0.036091845
Cript 56724	1.029495329	0.425245941	1.113545953	0.245873927
Prkag1 19082	1.029442294	0.386623818	1.029442294	0.386623818
Ankle2 71782	1.029348716	0.413243071	-1.060165036	0.281219082
Tpd52l2 66314	1.0293067	0.377046479	1.0293067	0.377046479
Ino80e 233875	1.029301919	0.411751219	1.187539781	0.052959055
Cdk19 78334	1.02927731	0.456874793	-1.160263518	0.277293121
Rasip1 69903	1.029194124	0.461175342	-1.262724048	0.013668692
Rpap3 71919	1.029142823	0.415179047	1.121337205	0.13930065
Mmachc 67096	1.029120457	0.434009335	1.235345917	0.068593948
Lipo1 381236	1.029021087	0.484084416	-1.695167316	0.261082002
2310057M21Rik 68277	1.029001405	0.469202185	1.029001405	0.469202185
Romo1 67067	1.028987085	0.448867087	-1.164967398	0.189974924
Cdc11 109332	1.028944232	0.457582733	-1.293880375	0.125263539
Casd1 213819	1.028927415	0.456748475	1.421498738	0.029170958
Myli1 218203	1.028912736	0.39525935	1.086670304	0.219487009
Aste1 66595	1.028793623	0.456111039	1.201731026	0.238090158
Zfp68 24135	1.028764685	0.444281771	1.014316953	0.461649126
Rfx3 19726	1.028752559	0.481836072	1.679540169	0.22578993
Pdc13 68833	1.028734802	0.442318847	-1.179691266	0.034953893
Ppp3ca 19055	1.028604321	0.450866311	-1.068305486	0.38072702
Cars 27267	1.028504577	0.4414467	1.014208715	0.464169855
Rangap1 19387	1.028360684	0.340393488	1.065903662	0.169378802

Slc35c1 228368	1.028356169	0.390276325	1.154371678	0.025638566
Fam192a 102122	1.028266381	0.422717003	1.028266381	0.422717003
Pcsk7 18554	1.028240114	0.389809818	-1.081015315	0.166641379
Il22ra1 230828	1.028227981	0.485054732	-1.010293975	0.492306781
Serpinf1 20317	1.028198478	0.422506787	-1.158403919	0.049226507
Crp 12944	1.028181588	0.375958302	1.099452374	0.08912434
Pppdf 66496	1.02814979	0.431286107	1.026787035	0.418212079
Mbl2 17195	1.02810957	0.449735033	-1.09427341	0.230313477
Ube2g1 67128	1.028082261	0.427584742	1.028082261	0.427584742
Ces2a 102022	1.028058614	0.409359576	-1.121813039	0.046444606
Rod1 230257	1.027931464	0.451659415	-1.092973543	0.350176581
Aldh1a1 11668	1.027884152	0.452349291	1.356847753	0.031483136
Dhrs7b 216820	1.027777271	0.412788072	-1.048355679	0.340225268
Ncstn 59287	1.027565119	0.331337146	1.027565119	0.331337146
Lmna 16905	1.027516354	0.420764347	-1.130843412	0.122011052
Hcn2 15166	1.027459242	0.479915962	1.027459242	0.479915962
Nol12 97961	1.027455095	0.455367376	1.101137926	0.328771078
Anxa2 12306	1.027448377	0.432731018	1.112361258	0.232361464
Ampd2 109674	1.027447251	0.39052368	-1.01506447	0.410163235
Dnajc3 100037258	1.027436302	0.418514117	1.110795888	0.202483993
Polr3e 26939	1.027368025	0.405003282	1.108584752	0.151194293
Sdf2 20316	1.027305553	0.434762477	-1.086114382	0.249034462
1300014I06Rik 66895	1.027283641	0.359430092	1.058164366	0.225880692
Cbfa2t3 12398	1.027281579	0.456134857	1.243589177	0.152647833
Capza2 12343	1.027205294	0.44899673	1.344170465	0.010846873
Jarid2 16468	1.027193415	0.452511121	1.317936737	0.065044269
Sdhaf1 68332	1.027177927	0.433969936	1.096025905	0.280186184
Vta1 66201	1.027140196	0.411270737	1.027140196	0.411270737
Pex26 74043	1.027139484	0.395063269	-1.019502188	0.420147273
Ptprj 19271	1.027118661	0.441694876	1.268077114	0.042420158
1810026J23Rik 69773	1.027072493	0.430025016	1.097930629	0.259209456
Ctps 51797	1.027011557	0.46959924	1.397315162	0.131700896
Nop2 110109	1.026979301	0.370803856	1.03067097	0.322206954
Uqcr11 66594	1.026888115	0.453523508	-1.270734237	0.074218233
Mrpl13 68537	1.026765837	0.426569435	1.086815043	0.276552792
Podxl 27205	1.026736805	0.453941965	1.101496197	0.270321032
Cyp3a59 100041449	1.026732748	0.457965217	1.026732748	0.457965217
Nhp2 52530	1.026654299	0.429135892	-1.005106377	0.479506975
Tysnd1 71767	1.026617538	0.397513726	1.030799063	0.3280641
Cetn2 26370	1.02658845	0.428088028	1.109831971	0.234753367
Xcl1 16963	1.026549761	0.482029978	1.026549761	0.482029978
Abcb4 18670	1.026545057	0.402710264	1.026545057	0.402710264
4831426I19Rik 212073	1.026439208	0.46272492	1.174969383	0.256208666
Rhobtb3 73296	1.026418243	0.465630572	1.026418243	0.465630572
Scmh1 29871	1.026340167	0.451075528	-1.247519042	0.070485961
F10 14058	1.026286911	0.448165162	-1.137540204	0.211762776
Zhx1 22770	1.026228915	0.450577799	1.182731745	0.193474816
Zfp219 69890	1.026206134	0.427468395	1.030602537	0.382258976
Rps13 68052	1.026113032	0.451388692	-1.134710078	0.24593566
2310003L22Rik 69487	1.025991078	0.465854513	1.025991078	0.465854513
BC031781 208768	1.025878751	0.457516344	1.249458946	0.130750674
Plod3 26433	1.025818805	0.413831578	-1.121966371	0.053814029
Mark2 13728	1.025796107	0.41536501	1.025796107	0.41536501

Cab39 12283	1.025755367	0.4170841	1.114884066	0.156079365
Pgpep1 78444	1.025656778	0.488586072	-1.049506076	0.483220987
Lrrc47 72946	1.025652888	0.45418957	1.351512247	0.016450764
Trrap 100683	1.025650422	0.434022196	1.025650422	0.434022196
Psmc4 23996	1.025544766	0.420414258	1.068493459	0.303486292
Rin2 74030	1.025522329	0.448758989	1.290711993	0.022697839
Acmsd 266645	1.025476277	0.442212391	-1.071686064	0.259784688
Acpl2 235534	1.025385387	0.464953706	1.025385387	0.464953706
Adam11 11488	1.025372984	0.472300637	1.2475301	0.28268363
BC048546 232400	1.025328615	0.46042135	-1.339354127	0.025133932
S100a1 20193	1.025323963	0.443785676	-1.114210375	0.227869492
Syng2 20973	1.025322916	0.365733503	-1.024683388	0.331575816
E430018J23Rik 101604	1.025215439	0.452785481	-1.075967883	0.352140925
Supt16h 114741	1.025186582	0.460057808	1.002864943	0.494222506
Rplp0 11837	1.025067961	0.447575506	-1.079922347	0.339688142
Rsc1a1 69994	1.025062158	0.40565155	1.025062158	0.40565155
Eif4e 13684	1.025060433	0.427067969	1.058350467	0.34554544
Fam173a 214917	1.02501217	0.446063491	-1.09092278	0.306000804
Chkb 12651	1.025012054	0.383861512	-1.06407761	0.18412167
B3gnt3 72297	1.024921279	0.463125444	1.024921279	0.463125444
Alms1 236266	1.024912651	0.487792798	-1.299585882	0.391329351
Cda 72269	1.024905127	0.453618961	1.008583393	0.477762899
Lipt2 67164	1.024862193	0.472871887	-1.291346296	0.220673447
A630072M18Rik 320770	1.02480799	0.448218691	-1.109479346	0.268175408
Fmo2 55990	1.024774999	0.473981824	1.44506833	0.122042068
Aff4 93736	1.024749711	0.462613433	1.024749711	0.462613433
Zbtb25 109929	1.024735984	0.474485889	1.603829401	0.060200606
Grsf1 231413	1.024683795	0.451705463	1.148654681	0.244614302
Zfp438 240186	1.024622101	0.470948377	1.024622101	0.470948377
Bmyc 107771	1.024497892	0.466536913	1.44501659	0.022827161
Grb14 50915	1.024390624	0.416536791	-1.020555721	0.42881639
Ube2c 68612	1.024372414	0.488649967	-1.05694243	0.473102772
Serinc2 230779	1.024263727	0.451427081	1.024263727	0.451427081
Clta 12757	1.024229338	0.426480979	-1.135381832	0.072112466
Bmp2 12156	1.024221563	0.454612094	-1.087781337	0.238566232
Nin 18080	1.024142384	0.4720461	-1.175097476	0.325257269
Plod1 18822	1.024116546	0.414335746	1.107592139	0.097202694
Zfp708 432769	1.023990083	0.48471126	1.527564287	0.274467785
Gsk3a 606496	1.023971404	0.386529411	1.023971404	0.386529411
Spag7 216873	1.023941841	0.42283118	-1.129988121	0.061712705
Mettl2 52686	1.023894272	0.415049281	1.072854396	0.256580831
9830147E19Rik 208111	1.023883784	0.472240089	1.023883784	0.472240089
Ermp1 226090	1.023842801	0.447473292	1.029590551	0.420092929
Snx6 72183	1.023842756	0.449397002	1.135330299	0.209941862
Crbn 58799	1.023830965	0.454543227	-1.120777103	0.222742975
Pcnp 76302	1.023768287	0.405148375	-1.034323725	0.354324249
Bche 12038	1.023726344	0.424017264	1.067472837	0.220800524
Med27 68975	1.023678874	0.450007591	1.105555817	0.30588405
Luzp1 269593	1.02360694	0.45572889	1.185811875	0.187371048
Arid2 77044	1.02359037	0.458147741	1.326126286	0.040042429
Tmem140 68487	1.023529927	0.469245698	1.012939495	0.471320388
Uqcrcq 22272	1.02337713	0.452964181	-1.237854081	0.053547474
Gnb2l1 14694	1.023354119	0.426775628	1.023354119	0.426775628

Trib1 211770	1.023330154	0.443553077	1.179106552	0.077566212
Ppp1r15a 17872	1.02325773	0.437312844	1.000508263	0.497893636
Hamp 84506	1.023244527	0.476963022	-1.333516211	0.221135604
Lipa 16889	1.023216117	0.405612867	1.086039876	0.150143015
Sec24b 99683	1.023087619	0.473554107	1.111801578	0.335791309
GlrX 93692	1.023077909	0.438058989	-1.057328772	0.348351692
Rab11fip3 215445	1.023029859	0.460150166	1.023029859	0.460150166
2610001J05Rik 66520	1.022951498	0.43503403	1.022951498	0.43503403
Fn3k 63828	1.022638367	0.469844052	1.068946061	0.40251434
Dedd2 67379	1.022582546	0.432655461	-1.035081725	0.399452527
Psma3 19167	1.022580247	0.413287183	-1.098121056	0.083314268
Cdc42bpa 226751	1.022395629	0.414728865	1.002447438	0.482668097
Myo10 17909	1.022351802	0.460278439	1.105003269	0.280170237
Mrpl18 67681	1.022348518	0.409639047	1.088850201	0.134513797
Exosc3 66362	1.022252373	0.445282008	-1.072820957	0.300919017
Ugt2b35 243085	1.022238478	0.464788677	-1.164802976	0.25074828
Ror1 26563	1.022104456	0.483295006	-1.331816821	0.309415265
Hnrnpu 51810	1.022102468	0.409435287	-1.021534826	0.3482989
Rab35 77407	1.022032937	0.390690691	1.022032937	0.390690691
Imp4 27993	1.022017127	0.423874105	1.022017127	0.423874105
Ap2a2 11772	1.02199817	0.353506723	1.093926214	0.013241627
Tgfb2 21808	1.021958947	0.487184813	-1.702123386	0.179137021
Cybasc3 225912	1.021934806	0.425781282	-1.072641455	0.204621359
Sun1 77053	1.021909547	0.465899659	1.200603794	0.230356273
Eif5 217869	1.021875882	0.44286005	1.136573325	0.166939183
Ezh1 14055	1.021802172	0.436344476	-1.126872319	0.142198258
Alkbh7 66400	1.021797523	0.460227557	-1.232248624	0.120479004
Dpf2 19708	1.02177473	0.379149618	-1.0655613	0.066887553
Pole3 59001	1.02171032	0.453349593	-1.102302273	0.281302821
Brd3 67382	1.021657128	0.439519703	1.210481188	0.011723616
Tsen54 76265	1.02160481	0.460806564	-1.107416171	0.317163248
Zfp282 101095	1.021515478	0.459667477	1.021515478	0.459667477
Brd7 26992	1.021428926	0.45767172	1.118835343	0.295603185
Zfp938 237411	1.021425643	0.471413757	-1.099563419	0.367788642
Ubap1 67123	1.021386111	0.40332838	-1.025046568	0.382460943
Nampt 59027	1.021375434	0.46628075	1.342864046	0.082594405
Hnrnpr 74326	1.021288179	0.472099377	-1.241572109	0.150612984
Sephs2 20768	1.021179893	0.43147102	-1.041038659	0.358821267
Slc41a3 71699	1.02115634	0.444685608	1.13335405	0.175272059
Tbc1d22b 381085	1.021144743	0.45656251	1.275439558	0.048270455
Lmo2 16909	1.021103116	0.474812018	1.021103116	0.474812018
Pam 18484	1.02097122	0.468890532	-1.319594205	0.097399461
Iqgap1 29875	1.020935158	0.471526163	-1.052679202	0.347222446
Fkbp2 14227	1.020848205	0.463099172	-1.106340355	0.325398101
Cnn2 12798	1.020839456	0.468233279	-1.211463914	0.180096292
Abce1 24015	1.020768371	0.442002152	1.195949076	0.041391212
Prpf38b 66921	1.020746233	0.452068124	1.174093179	0.113499438
Tyms 22171	1.020727143	0.461915378	1.042123663	0.391973405
Hk1 15275	1.020713199	0.427807633	1.020713199	0.427807633
Zfp36 22695	1.020709177	0.459163186	1.05080433	0.374021392
Dhx36 72162	1.02063731	0.4704461	1.102720993	0.363886327
2310079F23Rik 78890	1.020586833	0.452930318	1.020586833	0.452930318
Gxylt1 223827	1.020427309	0.468464613	1.402618159	0.026306629

Pdik1 230809	1.020396464	0.466214876	-1.124213882	0.310026513
Cmtm7 102545	1.020318804	0.471143609	-1.341707325	0.083580085
Tox4 268741	1.019897709	0.449087785	1.131720381	0.187358236
Hps3 12807	1.019838605	0.474874217	-1.106239759	0.366712542
Ttc3 22129	1.019835194	0.462939174	1.019835194	0.462939174
Copz1 56447	1.019831029	0.403109721	-1.023088064	0.376603091
Qrich1 69232	1.019812352	0.447380629	1.098516246	0.243567544
C030006K11Rik 223665	1.019806807	0.435983646	1.072298255	0.279319749
Wdr33 74320	1.019768205	0.44590691	1.185876964	0.067334924
Slc10a3 214601	1.019675783	0.473442595	-1.200886068	0.253629413
Sec63 140740	1.019645679	0.426586803	1.064652863	0.138044538
Rpl23a 268449	1.019506263	0.45503279	-1.088038629	0.300641492
Pten 19211	1.019438863	0.430668459	1.019438863	0.430668459
Tmem208 66320	1.019416564	0.453743919	-1.061027791	0.349542777
Pigq 14755	1.019320681	0.453638949	1.12758686	0.180948995
Srp19 66384	1.019237379	0.432248372	1.019237379	0.432248372
Dpm1 13480	1.01920118	0.4551124	-1.038329081	0.377162248
Itgb1 16412	1.019161853	0.428677624	-1.048235239	0.309659194
Oxnad1 218885	1.019041574	0.457972605	-1.071441947	0.335540729
B4galt5 56336	1.0190057	0.473902264	1.312523339	0.119019068
A1314976 106821	1.018846508	0.46143972	-1.057648839	0.361056367
Sox5 20678	1.018818535	0.478816783	-1.175737928	0.290714612
Eif3k 73830	1.018714026	0.435686937	-1.019142552	0.438232636
Swi5 72931	1.018671267	0.409764973	1.058129666	0.233586443
Bdh2 69772	1.018586698	0.479154571	-1.187593547	0.223173542
Ccndbp1 17151	1.018579902	0.409552294	1.018579902	0.409552294
Fam18b 67510	1.018475829	0.476621925	1.018475829	0.476621925
Dus4l 71916	1.018444149	0.477056822	-1.395534711	0.103264352
Scamp2 24044	1.018434393	0.436757568	1.024226022	0.397211672
Xbp1 22433	1.018423263	0.443745796	1.170521628	0.072275645
Ssrp1 20833	1.018368715	0.436116157	-1.120584944	0.078125447
Ttc5 219022	1.018358686	0.465540555	-1.053453626	0.402567768
Sesn2 230784	1.018356401	0.475755006	-1.20679763	0.254229228
Arvcf 11877	1.018355439	0.459472479	1.131433899	0.200226204
Wapal 218914	1.018329034	0.469246113	1.189577669	0.219717309
Sec61b 66212	1.01821988	0.454612919	1.036206423	0.396889079
Ighmbp2 20589	1.018208116	0.446535569	1.113188276	0.18853813
Sumo2 170930	1.018184357	0.458918765	1.018184357	0.458918765
Gm14288 13999	1.018093582	0.467529208	-1.11475572	0.308282912
Aagab 66939	1.018078504	0.395409654	-1.011061091	0.433947659
Snx29 74478	1.018047782	0.486072294	-1.353359962	0.293706138
Sap30l 50724	1.017992347	0.464201951	-1.132876152	0.235210056
Nsa2 59050	1.017991562	0.420950494	1.017991562	0.420950494
5530601H04Rik 71445	1.017970554	0.48167536	-1.173877573	0.318484866
9130011J15Rik 66818	1.017960308	0.430158761	1.084977563	0.189553095
Nedd8 18002	1.017889368	0.4395906	1.105654644	0.157879435
Ccrl2 54199	1.017886021	0.485389987	1.330957295	0.296902167
Slc45a4 106068	1.017881361	0.474863693	-1.137839492	0.294786809
Icosl 50723	1.017771752	0.476131604	1.017771752	0.476131604
Ppp2ca 19052	1.017703547	0.457657667	-1.18857335	0.078882086
Mlycd 56690	1.017664553	0.461456636	-1.054319121	0.391367461
Thoc2 331401	1.017643681	0.479141697	1.254441175	0.252899506
Pmf1 67037	1.017628239	0.455687555	1.017628239	0.455687555

1810031K17Rik 69171	1.017598902	0.405266858	-1.013869284	0.365124449
Hip1 215114	1.017536269	0.470958152	1.141808939	0.297953629
Tbcel 272589	1.017533044	0.477890412	1.53438233	0.014192859
Dbr1 83703	1.017472419	0.449988491	1.190053278	0.045697376
Sult1a1 20887	1.017459148	0.459892068	-1.178355344	0.128912129
Sparcl1 13602	1.017452044	0.460676677	1.017452044	0.460676677
Ndufs7 75406	1.017450057	0.458489881	-1.088851664	0.291670128
Rfwd3 234736	1.017411869	0.463362113	1.017290958	0.440911306
Wdr26 226757	1.017404794	0.456018144	1.064381032	0.297754925
Per1 18626	1.017364409	0.460473661	1.11914588	0.257209194
Bcas2 68183	1.017309338	0.425055176	1.075656703	0.19249145
Gpr98 110789	1.01729724	0.489150407	-2.005626993	0.107561566
Def8 23854	1.017262937	0.454115621	1.102938068	0.225626541
Mta3 116871	1.017198773	0.448455351	1.017198773	0.448455351
2210403K04Rik 100042498	1.017095286	0.466192904	-1.231070288	0.091865017
Thumpd2 72167	1.017032677	0.485421598	1.017032677	0.485421598
Gppb1 73274	1.017018816	0.44351683	1.017018816	0.44351683
Abca8b 27404	1.016893973	0.478017775	1.278105321	0.191324937
Fbxo7 69754	1.01681976	0.452820296	1.026158507	0.410479072
Riok3 66878	1.016807236	0.40887415	-1.033530626	0.290268618
Timm50 66525	1.016785152	0.450553932	-1.074575327	0.272053359
Rangrf 57785	1.016767317	0.48638934	1.016767317	0.48638934
Atp5g1 11951	1.016749935	0.467282182	-1.142083193	0.221420126
Zhx3 320799	1.016645312	0.467311168	1.016645312	0.467311168
Ptdss2 27388	1.016619613	0.463717238	1.016619613	0.463717238
Vps53 68299	1.016601495	0.419466599	1.112329568	0.041571044
Serpina1c 20702	1.016575234	0.447024874	-1.083926298	0.135734178
Creld2 76737	1.016543769	0.480040558	1.292744859	0.023855555
Crocc 230872	1.016522477	0.479166825	-1.419839673	0.056296284
Drap1 66556	1.016471085	0.465039173	1.013783548	0.462715375
Tmem167 66074	1.016387275	0.424574735	1.080646333	0.104963624
Fam26e 103511	1.016364976	0.491924933	1.195314368	0.428478238
Ftcd 14317	1.016339044	0.440299634	1.016339044	0.440299634
Mta1 116870	1.016329764	0.405344205	1.016329764	0.405344205
Cntn2 21367	1.016328212	0.482802951	1.212398432	0.277251959
Rsrc2 208606	1.016292175	0.476707333	-1.13150072	0.334256829
Cox7a2 12866	1.016275022	0.461397655	-1.200845736	0.055650028
Wdr85 67228	1.016123337	0.481498626	1.606754981	0.011207523
1110021L09Rik 76306	1.01598842	0.487222569	1.121204434	0.362056735
5430407P10Rik 227545	1.015965821	0.460074611	1.120143421	0.185017161
Samd4b 233033	1.015934841	0.40902992	1.015934841	0.40902992
Mettl5 75422	1.015930888	0.464428723	1.015930888	0.464428723
Chek1 12649	1.01589854	0.491594667	1.784660662	0.257682973
Tsfm 66399	1.01589764	0.467664154	-1.167208333	0.125686256
Ccdc99 70385	1.015877143	0.493760401	3.53972	0.173296754
Plekha8 231999	1.015866009	0.461030925	-1.053352238	0.378373784
2810002N01Rik 68020	1.015854098	0.439463805	-1.03131394	0.383980574
Lrrc14 223664	1.015790613	0.452483106	-1.062335569	0.313130201
Zufsp 72580	1.015753544	0.4905525	-2.550426666	0.006602581
Pomp 66537	1.015698261	0.450686776	1.112774252	0.100285588
Srxn1 76650	1.015695598	0.455292599	1.158599983	0.060506765
2810459M11Rik 72792	1.015690411	0.403885517	1.015690411	0.403885517
BC031353 235493	1.0156799	0.465169545	-1.057439171	0.259823114

Hook2 170833	1.015579804	0.425031271	-1.040875473	0.261419831
Pias4 59004	1.015526652	0.457918167	1.082355893	0.28553276
Slc41a1 98396	1.015482232	0.473961852	1.290790607	0.101719432
P2ry1 18441	1.015470422	0.465403525	1.111213594	0.278694233
Ppt2 54397	1.015439538	0.421812357	1.052936682	0.244595992
Zfp235 56525	1.015422801	0.48099469	-1.26825072	0.202888759
Ecd 70601	1.015325418	0.454360067	-1.048006622	0.353348062
Ppp1r12c 232807	1.015225325	0.449542454	1.070595631	0.27556142
Tuba1c 22146	1.015210745	0.46420639	-1.085274339	0.271429978
Rcl1 59028	1.015201024	0.450033613	-1.056652389	0.312570377
Ndufa8 68375	1.015071658	0.448415767	1.015071658	0.448415767
Egflam 268780	1.0150645	0.489557842	-1.378503281	0.308946836
Mt2 17750	1.015032873	0.478746885	1.015032873	0.478746885
Apold1 381823	1.014985278	0.488817955	1.53255533	0.221283047
Uxt 22294	1.014967062	0.479122771	-1.177019735	0.218296501
Usp49 224836	1.014959775	0.490109336	-1.6339871	0.21713774
Slc3a1 20532	1.014879378	0.479397398	-1.034542899	0.444623618
Hscb 100900	1.01475245	0.484857208	-1.509174339	0.02864394
Rsu1 20163	1.014705922	0.467889647	1.142682325	0.21439893
Il18bp 16068	1.014661098	0.474422488	-1.140135803	0.270896604
Eif3l 223691	1.014623706	0.439063726	1.043211037	0.334500695
Tppp 72948	1.0145651	0.482429555	1.503591803	0.054055554
Bpgm 12183	1.014494967	0.457944359	-1.063394866	0.319993699
Acbd6 72482	1.014488554	0.463656538	-1.077703294	0.28907919
Tmem204 407831	1.014420875	0.461040802	1.055867884	0.366814458
Rab3gap2 98732	1.01440573	0.468139497	-1.093923929	0.272878777
Yars 107271	1.014302292	0.465563205	1.014302292	0.465563205
Kif21a 16564	1.014283979	0.482296794	1.298591092	0.186324138
Hspa14 50497	1.01424738	0.471135661	-1.23082755	0.082667166
Fam176a 232146	1.014218469	0.451729651	1.066207706	0.285370982
Shkbp1 192192	1.014216672	0.457367757	1.081248777	0.261824899
C1qa 12259	1.014098047	0.473583641	-1.016424092	0.461627355
Trim39 79263	1.014045486	0.462811698	1.014045486	0.462811698
Tifa 211550	1.013999606	0.454698707	-1.076824849	0.231745062
Wdr31 71354	1.013892893	0.494840415	1	#DIV/0!
Dab1 13131	1.013892893	0.494840415	1	#DIV/0!
Mcrs1 51812	1.013818826	0.471866441	1.013818826	0.471866441
Becn1 56208	1.013806188	0.454329509	1.051824862	0.347545197
Orai3 269999	1.013792366	0.446273895	1.013792366	0.446273895
Efhd1 98363	1.013766529	0.492401929	-1.762234392	0.245786637
Uhrf2 109113	1.013732938	0.467155592	1.062327114	0.281253371
Fbxo11 225055	1.013703741	0.486825169	1.149827282	0.365148416
Npm3 18150	1.013671641	0.470487541	1.105381786	0.276848154
Ran 19384	1.013661321	0.417574738	-1.007446223	0.457141065
1810030N24Rik 66291	1.013649402	0.468738871	-1.110428411	0.247540441
Rab3ip 216363	1.013596032	0.428765789	1.013596032	0.428765789
Pja2 224938	1.013576914	0.481011029	1.013330528	0.477715336
Nsf 18195	1.013508231	0.469742536	1.013508231	0.469742536
Nat10 98956	1.013436515	0.462680693	-1.010225419	0.465657688
Ppp1r16b 228852	1.0131421	0.480165548	1.222828644	0.203939333
Prdm10 382066	1.013141542	0.490901655	1.429213653	0.290484699
Zfp810 235050	1.012999361	0.486879728	-1.088445091	0.416098649
Napb 17957	1.012962752	0.489183329	-1.409240487	0.238529812

Tmem149 101883	1.012959265	0.486489745	1.320645605	0.162041805
Zfp941 407812	1.012958975	0.492276972	1.012958975	0.492276972
Bms1 213895	1.012957917	0.464759982	1.142226063	0.111555106
Ppp1cb 19046	1.012930887	0.470275523	1.233033611	0.058866791
Eif4a2 13682	1.012925838	0.47599065	1.012925838	0.47599065
Pink1 68943	1.012902193	0.451775745	1.012902193	0.451775745
Tapt1 231225	1.012870909	0.47722768	1.139429594	0.250254174
2410003K15Rik 75593	1.012866435	0.467501801	-1.01973858	0.429998776
Apoc4 11425	1.012865934	0.477650112	1.003886348	0.491031811
Slc18a1 110877	1.012849949	0.479960032	1.015325378	0.46027234
Wdfy2 268752	1.012832873	0.493825867	3.836820084	0.036982216
Ddost 13200	1.012823935	0.439174417	1.066808366	0.197034363
Zfp60 22718	1.012811726	0.485973474	1.212197348	0.265160197
C030046E11Rik 226089	1.01271148	0.486730672	1.407737373	0.153717648
Nedd4l 83814	1.012701593	0.459022762	1.012701593	0.459022762
Hs3st3b1 54710	1.012616131	0.469885548	-1.066413967	0.339113184
Pfkfb4 270198	1.012606423	0.493667059	-1.501130924	0.326323118
Mpeg1 17476	1.012599161	0.480704388	-1.153900573	0.287899276
1810043H04Rik 208501	1.012506912	0.473697281	1.022943194	0.429615548
Traf6 22034	1.012398629	0.48153359	1.012398629	0.48153359
Sla 20491	1.012358845	0.489009811	-1.048930827	0.456221966
Gpank1 81845	1.012358384	0.478332199	-1.298839288	0.047756426
Slc11a2 18174	1.012331183	0.473009294	1.094895559	0.249298255
Foxo1 56458	1.012262427	0.47259142	1.012262427	0.47259142
Ndufb7 66916	1.01225036	0.473311266	-1.12546316	0.226549497
Peo1 226153	1.012230121	0.435644881	-1.020705259	0.389671031
Zzz3 108946	1.012199577	0.458669698	-1.133034319	0.014089444
Slfm2 20556	1.012178053	0.475893488	-1.164089988	0.16351753
Zfp639 67778	1.012091911	0.48139506	1.160151717	0.213298931
Camk2d 108058	1.012076782	0.483610288	1.012076782	0.483610288
Bsg 12215	1.012072513	0.460265217	-1.148245608	0.02878425
Eme2 193838	1.011894034	0.471348507	-1.044747357	0.396097109
Col4a3bp 68018	1.011885399	0.464676174	1.076656763	0.294082613
2310022B05Rik 69551	1.011762221	0.463681059	-1.071905982	0.275668129
Entpd4 67464	1.011730061	0.444314998	-1.081476218	0.119211247
Sirt5 68346	1.011594143	0.477416316	1.133442596	0.268941542
Snrpb2 20639	1.011492103	0.461825092	-1.054478841	0.308270271
Plrg1 53317	1.01139229	0.473410391	-1.123311866	0.20377911
Smox 228608	1.011314226	0.48133497	1.011314226	0.48133497
Nop14 75416	1.011267989	0.428231434	1.051645243	0.164846457
Qpctl 67369	1.011231165	0.458724957	1.049260635	0.26067872
Amfr 23802	1.011218611	0.465335942	1.090739598	0.210640884
Tmed7 66676	1.011206028	0.479501347	1.10071771	0.340037586
Utrn 22288	1.01120308	0.486710845	1.478400963	0.080852457
Dpm2 13481	1.011172267	0.46684672	1.011172267	0.46684672
Isoc2a 664994	1.011164798	0.465132126	-1.053142578	0.341345581
Filip1l 78749	1.011090083	0.486170289	1.312315586	0.16488001
Atrnl1 226255	1.011077575	0.484090908	1.388274764	0.058800688
Exoc8 102058	1.01101019	0.470405438	1.039151021	0.366666103
Mrps28 66230	1.010910359	0.477115687	1.009275755	0.476162226
Kif26b 269152	1.010899474	0.494239965	1.797535714	0.255240005
Klc1 16593	1.010874319	0.472352192	-1.081689731	0.276191058
Baiap2 108100	1.010799243	0.445295679	-1.039395095	0.272971972

Gatsl3 71962	1.010727941	0.48437803	1.010727941	0.48437803
Cox5b 12859	1.010641575	0.47108057	1.014431184	0.439272412
Prox2 73422	1.010570435	0.486698505	1.211027289	0.278458986
Rnf149 67702	1.010569644	0.460621666	1.0796703	0.189972933
Nhlrc3 212114	1.010531918	0.49003898	1.081633	0.414668405
Cirh1a 21771	1.010510507	0.474169996	1.102321458	0.271930433
Phf21a 192285	1.010467214	0.463258449	-1.035432679	0.383385723
Baiap2l1 66898	1.010401571	0.469984537	1.010401571	0.469984537
Dysf 26903	1.010394323	0.477991306	-1.10214317	0.297370164
Ss18 268996	1.010252597	0.472392944	1.065393688	0.300413033
Otud6b 72201	1.010248513	0.48558237	1.269619466	0.162446502
Josd2 66124	1.010232129	0.477758675	1.010232129	0.477758675
Polrmt 216151	1.010160432	0.441430593	-1.011950801	0.412696895
Tmem109 68539	1.010143333	0.469380308	-1.075703224	0.243116456
Dhdds 67422	1.01010982	0.465826763	1.158076712	0.041364505
Slc48a1 67739	1.010108576	0.462268763	-1.034429237	0.378765363
Rhoa 11848	1.010099234	0.445515404	-1.015024855	0.392693111
Zfp568 243905	1.010085238	0.486081761	1.114392739	0.22592233
Rrp36 224823	1.009975139	0.462427478	-1.057398141	0.278879441
Fbln1 14114	1.009930522	0.491309782	1.163097969	0.384883335
Mark3 17169	1.009901306	0.462433949	-1.070757491	0.203172992
Dnajb2 56812	1.009894617	0.465525793	-1.078469556	0.201101993
Prr15l 217138	1.009880813	0.493232699	1.315818981	0.34111768
Gpd1l 333433	1.009865576	0.473552106	-1.035893179	0.412718223
1700029F09Rik 75623	1.009799331	0.48951019	-1.225168737	0.301004293
Igfbp4 16010	1.009769549	0.456474502	-1.095271088	0.086612097
Zfp277 246196	1.009739165	0.488317103	-1.259744876	0.230311121
Ddx39b 53817	1.00971216	0.443246302	-1.070498887	0.068269535
Ypel3 66090	1.009707092	0.471588945	1.026139925	0.382229005
Klh122 224023	1.009693589	0.476995871	1.123309736	0.228356622
Tyrobp 22177	1.009571811	0.481317024	-1.049086943	0.39283632
Cd14 12475	1.009536128	0.48560033	1.139764975	0.277333574
Plekha3 83435	1.009480396	0.482469199	1.169613391	0.214214508
Ccbl2 229905	1.009455942	0.471968443	1.045227856	0.311362517
Tmem177 66343	1.009446463	0.478775152	-1.08864154	0.291356643
Slc16a9 66859	1.009431647	0.488533495	-1.056979812	0.435814355
Adamts1 11504	1.009349241	0.489431619	1.009349241	0.489431619
Plxn1 235611	1.009286665	0.467410047	1.002913202	0.485380904
Ppil2 66053	1.009187671	0.47628159	1.009187671	0.47628159
Ubtfl 21429	1.009144338	0.421322914	1.041824555	0.124994903
Chac2 68044	1.00914126	0.479294682	-1.06377086	0.369019704
Eif4ebp1 13685	1.009124922	0.475181805	-1.096766448	0.188517669
Thumpd1 233802	1.009121754	0.477831872	-1.053944123	0.372540545
Hdac1 433759	1.009096219	0.47979786	1.009096219	0.47979786
Rap1a 109905	1.009054131	0.482868244	-1.106301304	0.317242309
Ogfod2 66627	1.009015352	0.479254475	-1.108059907	0.259122166
Zbtb41 226470	1.008993822	0.489232376	1.298605593	0.198849459
Erlin2 244373	1.008989616	0.47639675	-1.074464468	0.314985732
Ttf1 22130	1.008861099	0.485771342	1.168371381	0.212600019
AW549877 106064	1.008853695	0.487950103	1.292226372	0.14475601
Slc25a11 67863	1.00884277	0.45086951	-1.023056841	0.375647259
Exosc10 50912	1.008788448	0.471761477	1.081178004	0.256833572
Pdcl 67466	1.008683029	0.489807825	1.008683029	0.489807825

Elf2 69257	1.008650672	0.489008338	1.242678911	0.239658601
Polr2g 67710	1.008578796	0.476957769	1.008578796	0.476957769
Tspan7 21912	1.008562086	0.475193824	-1.004290905	0.481802375
Trip12 14897	1.008478536	0.475899972	1.176375203	0.069359948
Clmn 94040	1.008475816	0.457647967	1.008475816	0.457647967
Snx11 74479	1.008449751	0.476876996	1.007469565	0.464483512
Rfc2 19718	1.008404997	0.486167362	1.047094493	0.358000453
Eef2 13629	1.008381897	0.466393133	-1.044720571	0.324593304
Ppm1m 67905	1.008314127	0.478234244	-1.085658124	0.256036895
Vps26a 30930	1.008265955	0.47689476	-1.103638549	0.195861698
Rnf39 386454	1.008154457	0.488221345	1.354759509	0.098654852
Peg13 353342	1.008141043	0.476986055	1.099184134	0.236420155
Ephx1 13849	1.008103223	0.47918222	1.144806128	0.123220217
Klra2 16633	1.008040439	0.489940803	1.008040439	0.489940803
Fam108c 70178	1.008022931	0.479154367	1.122779514	0.192817381
Atad1 67979	1.008012863	0.486943338	1.107432441	0.20123543
Tsta3 22122	1.008004202	0.478720972	1.133633782	0.144729449
Eif3d 55944	1.00792612	0.477892299	1.00792612	0.477892299
Ncaph2 52683	1.007891672	0.469185441	-1.047321399	0.319509977
Skiv2 108077	1.007885873	0.46335611	1.007885873	0.46335611
Chd6 71389	1.007877478	0.487617381	1.332045002	0.078712095
Rilp 280408	1.007838306	0.483401833	-1.230558896	0.069995126
Coq4 227683	1.007734183	0.48411179	-1.216810605	0.090970757
Gdi2 14569	1.007728169	0.464337354	-1.037769489	0.254999179
Exosc7 66446	1.007632921	0.469568901	-1.034233587	0.365418974
Tbc1d22a 223754	1.0075924	0.480058568	1.0075924	0.480058568
Cybb 13058	1.007535173	0.483911274	-1.075467199	0.34045947
Ptpn4 19258	1.007493161	0.496031655	1.784660662	0.257682973
Dazap1 70248	1.007389668	0.473096074	1.139869316	0.046369124
C2 12263	1.007361898	0.482510261	-1.16975141	0.027615773
5930434B04Rik 381356	1.007360463	0.472176438	1.063448543	0.236221414
Col6a2 12834	1.007346654	0.491129678	-1.181238318	0.14805545
1110067D22Rik 216551	1.007314594	0.480110336	1.050329843	0.373109246
Gadd45a 13197	1.007312829	0.492362937	1.007312829	0.492362937
Acap2 78618	1.007216713	0.492700572	-1.02027764	0.466355918
Ube2h 22214	1.00719926	0.469337624	1.054014334	0.274142698
Mrpl19 56284	1.007153399	0.486303431	1.257187039	0.078168702
Thap7 69009	1.007145738	0.484060335	-1.231140124	0.035607578
Eif2a 229317	1.007074653	0.462795576	-1.089931276	0.018332413
Snhg1 83673	1.00702157	0.490444801	1.165787395	0.271958275
Utp3 65961	1.006997727	0.476566258	1.006997727	0.476566258
Ppargc1a 19017	1.006967909	0.493334816	-1.136378123	0.352202139
Grpel1 17713	1.006961816	0.466073069	1.016967326	0.395598594
Hspb2 69253	1.006957827	0.496085219	-1.23872035	0.390455289
Prpf4b 19134	1.006935593	0.492008468	1.113924706	0.330611429
Prpf6 68879	1.006903895	0.470325997	-1.016501278	0.404745967
Ngfrap1 12070	1.006873833	0.484676305	-1.097672598	0.297193069
Gm12216 622459	1.006828386	0.496118085	1.481669861	0.318085772
Cdk2ap2 52004	1.006820387	0.488414342	1.021763717	0.445113121
Ldlrad3 241576	1.006758773	0.487724332	1.208203403	0.136593573
Thy1 21838	1.006751641	0.485230883	1.006751641	0.485230883
Usp7 252870	1.006744766	0.478358802	-1.158985578	0.024414827
Phospho2 73373	1.006700616	0.484943515	-1.125912132	0.221687169

Anp32e 66471	1.006682319	0.481902113	1.174427709	0.080695173
lpmk 69718	1.00665063	0.47633859	-1.058759089	0.295105461
lgf2r 16004	1.006539595	0.485514991	-1.082674244	0.315005643
Gtf3c4 269252	1.006537729	0.487462722	1.177379746	0.179289713
Manea 242362	1.006448761	0.4909229	-1.228168133	0.209728986
Aspdh 68352	1.006328382	0.483775543	1.022176745	0.431558928
Gys2 232493	1.006226809	0.482434227	-1.00421624	0.486352538
Ldb1 16825	1.006162487	0.477710855	1.006162487	0.477710855
Ugt3a2 223337	1.006155083	0.47598166	-1.06955871	0.210341758
Tada2a 217031	1.006145572	0.490779914	1.00341008	0.491260233
Hyal2 15587	1.006145218	0.474449328	1.038872812	0.348742827
Pex5 19305	1.006136258	0.48133664	1.08976541	0.211519859
Dio3 107585	1.006124474	0.496334442	-1.659963261	0.249112461
Klf16 118445	1.006116118	0.487196522	1.007942077	0.480130229
Nploc4 217365	1.005982734	0.473245259	-1.043774864	0.306801684
Ogdh 18293	1.0059289	0.448515321	1.0059289	0.448515321
Rnf4 19822	1.005923815	0.485360733	1.105539749	0.226799787
Rad9 19367	1.005895776	0.490407449	1.005895776	0.490407449
Llph 66225	1.005886683	0.484243257	-1.076096406	0.308496462
Ostf1 20409	1.005846721	0.474774543	1.005846721	0.474774543
1810009A15Rik 66276	1.005830337	0.486707767	1.005830337	0.486707767
Obfc2a 109019	1.005828343	0.494224615	1.279370062	0.244543196
Sf3b2 319322	1.005747085	0.4746881	1.120913263	0.025981127
Ttl 69737	1.00569798	0.489401515	1.154376795	0.183667691
Man1a2 17156	1.005658298	0.471674978	1.035372099	0.338411794
Xpot 73192	1.005650129	0.487447702	1.004001773	0.489587366
Urod 22275	1.005513578	0.487510767	1.038802498	0.382325508
Klf6 23849	1.005504735	0.490274068	1.273308795	0.109814205
Hba-a2 110257	1.00547755	0.494091586	-1.249343404	0.279007734
Atox1 11927	1.005465796	0.488826582	1.070440347	0.325800728
Eif3b 27979	1.005376178	0.480330044	1.005376178	0.480330044
Psm1 70247	1.005313196	0.480790467	-1.057534781	0.297859782
Csnk1e 27373	1.00520531	0.490496394	1.024990117	0.433234388
Nuak2 74137	1.005168273	0.487911815	1.005168273	0.487911815
5730469M10Rik 70564	1.004839999	0.48447497	-1.077865113	0.25142213
Slnf5 327978	1.004792071	0.489701331	1.113623021	0.278942225
Atp5j 11957	1.004780567	0.477378959	1.065420055	0.185539963
Dynlt3 67117	1.004740358	0.488603796	-1.073658835	0.338586925
Crb3 224912	1.004714101	0.482442579	-1.074277647	0.173089033
Znhit1 70103	1.004712859	0.489784008	1.030880594	0.42270676
Pcdh1 75599	1.004637443	0.483468813	-1.056850013	0.289938321
Tmem88 67020	1.004591809	0.495079743	-1.196105042	0.281050278
Naa35 78689	1.004546678	0.488398295	-1.05206281	0.380351132
Tmem191c 224019	1.004405143	0.492673712	-1.089616673	0.328225283
4930402H24Rik 228602	1.004334708	0.495724882	1.168685064	0.299246196
lft20 55978	1.004205003	0.487551558	1.042652002	0.38290975
Lmln 239833	1.004202025	0.49769512	-2.043390563	0.184333064
ltgav 16410	1.00419945	0.49181907	-1.058149377	0.393463274
Wdr7 104082	1.004154987	0.493588465	1.156355835	0.290973033
Pik3r2 18709	1.004108931	0.485817931	1.144929488	0.054629037
Dnaja2 56445	1.00402132	0.49045019	1.008552025	0.476826723
Cfl1 12631	1.003964003	0.488444617	-1.077629425	0.283584716
Trpc6 22068	1.003935941	0.492888974	-1.040964609	0.406375976

Vopp1 232023	1.003932589	0.494889984	-1.045570401	0.435469066
Zwilch 68014	1.003868108	0.497937416	-2.600054995	0.091584858
A230051G13Rik 216792	1.003852714	0.489890846	-1.104710598	0.229263892
Fgb 110135	1.003813801	0.490125876	-1.100968559	0.207602062
Stab2 192188	1.003692711	0.482015302	1.003692711	0.482015302
Dsp 109620	1.003678009	0.495377636	1.279889215	0.197220744
Rpf2 67239	1.00367057	0.494788079	1.00367057	0.494788079
Coq10b 67876	1.003594846	0.491346623	-1.111217844	0.241943655
Mrpl22 216767	1.003553514	0.489411877	-1.036284858	0.320272242
Pa2g4 18813	1.003511108	0.486403337	1.120811197	0.081240179
Hbs1l 56422	1.003504094	0.486975404	1.127802426	0.081276901
Pfn1 18643	1.003416433	0.49233217	-1.222214513	0.0679824
Aldoart1 353204	1.003409033	0.498458011	3.852678571	0.080253065
Hsd17b4 15488	1.003397964	0.491587831	1.101102743	0.238240504
Mfsd11 69900	1.003371038	0.491535162	1.009590598	0.463236464
Fam168a 319604	1.003337529	0.493150938	1.086985827	0.267090714
Cd180 17079	1.003321238	0.497927592	-1.561907297	0.215130811
1190005F20Rik 98685	1.00328404	0.488820718	1.074234768	0.23636237
Ly6e 17069	1.003279096	0.49452265	-1.261097323	0.047122837
Canx 12330	1.003251182	0.487079051	1.051828653	0.308444253
Rft1 328370	1.003226696	0.490970287	-1.022330423	0.382447916
Nr1h4 20186	1.003155114	0.490016611	1.003155114	0.490016611
Surf1 20930	1.003140028	0.492649463	-1.084150404	0.17605069
Egln2 112406	1.003128442	0.491377735	-1.115623155	0.168288562
Eif3h 68135	1.003125668	0.484407813	-1.062584528	0.103084129
E4f1 13560	1.003086605	0.495150928	1.139375826	0.278596551
Pydc4 623121	1.003004119	0.498283018	1.652436434	0.267702974
2310047B19Rik 66962	1.002992663	0.493562506	1.0099554	0.470905862
Nudt1 17766	1.002991899	0.493469077	1.066887807	0.362277422
Ube2d3 66105	1.002980529	0.492265376	-1.096148081	0.261498596
Lym5 67636	1.002920344	0.492631118	-1.191914103	0.073391888
Tfec 21426	1.002890194	0.495809217	-1.081692648	0.375873312
Tsn 22099	1.002831188	0.492131078	1.095439383	0.248348788
Dck 13178	1.002802671	0.497847697	-1.476381935	0.2357447
Rbm18 67889	1.002778589	0.495099373	1.182427459	0.2021954
Mocs2 17434	1.002738357	0.487612442	-1.047902701	0.287441014
Dnase2b 56629	1.002693002	0.493323511	1.002693002	0.493323511
Vwa3a 233813	1.002688635	0.498820915	-3.967316667	0.09324139
Ii7 16196	1.002688635	0.498820915	-3.967316667	0.09324139
Catsperg1 320225	1.002688635	0.498820915	-3.967316667	0.09324139
Tnfsf9 21950	1.002688635	0.498820915	-3.967316667	0.09324139
Sh2d4b 328381	1.002688635	0.498820915	-3.967316667	0.09324139
Ubash3a 328795	1.002688635	0.498820915	-3.967316667	0.09324139
Ubac2 68889	1.002654316	0.488860272	1.07385624	0.18039722
Wbscr22 66138	1.002641708	0.492473709	-1.168260072	0.056594893
Fam73b 108958	1.002571295	0.4942189	-1.065283644	0.30333315
Gm5088 328451	1.002565553	0.490694642	1.031995641	0.360985824
Erg 13876	1.002516996	0.497827603	1.075569681	0.439969022
Mzt1 76789	1.002465381	0.496257341	-1.144127225	0.309914371
Magt1 67075	1.002366879	0.489778409	1.057494066	0.242018294
Dnajb11 67838	1.002341737	0.493217774	1.111265577	0.174459237
Psmc3 19182	1.002303136	0.492582727	-1.042346759	0.376155689
Timm9 30056	1.002207325	0.493569499	1.101662481	0.208700293

Cmas 12764	1.002163527	0.48673654	-1.015421972	0.411873777
Sik1 17691	1.002160479	0.496570861	1.002160479	0.496570861
Mpzl3 319742	1.00213223	0.499069061	1.195314368	0.428478238
Gabpa 14390	1.002116394	0.49629809	1.345439486	0.01320468
Rnf130 59044	1.001823932	0.4924701	1.03634055	0.36342197
Smcr7 237781	1.001814272	0.494891624	1.001814272	0.494891624
B3gnt1 108902	1.001791893	0.495413283	1.060966299	0.360606941
Nphp1 53885	1.001773603	0.497044137	1.176825882	0.234316061
Elf1 13709	1.001628828	0.497723265	1.308109443	0.094720912
Zfp385b 241494	1.001483439	0.497280143	1.023778709	0.44606459
Cant1 76025	1.001471443	0.493940061	-1.018474685	0.379959568
Gcn1l1 231659	1.001465607	0.489445466	-1.026606334	0.313394799
Faim 23873	1.001399122	0.498031611	-1.143192731	0.297713682
Skil 20482	1.001336604	0.498704636	-1.098162335	0.382873896
Dcaf10 242418	1.001329415	0.497064733	-1.136957601	0.207253081
Eml2 72205	1.00131708	0.497169194	1.111296841	0.250788047
2310035K24Rik 69596	1.001315849	0.496253031	1.001315849	0.496253031
Msl2 77853	1.0013147	0.497950636	1.0013147	0.497950636
Ccdc117 104479	1.001272655	0.496648339	1.018822685	0.407038404
Igbp1 18518	1.00126816	0.495230551	-1.05528137	0.288650125
Tmem219 68742	1.001219863	0.497219703	-1.002145969	0.493266267
Rfc1 19687	1.001187046	0.497304539	1.009562201	0.47151272
Wbp7 75410	1.001182454	0.49708758	1.134326727	0.168474055
Ebp 13595	1.001170599	0.49498382	-1.107876208	0.073639452
Atp1a1 11928	1.000825116	0.495409301	1.057735946	0.115461362
Vat1 26949	1.000801008	0.496887478	1.053879172	0.302892666
Gpn1 74254	1.000767821	0.498173037	1.104407576	0.269372846
Nkrf 77286	1.000597505	0.499569044	1.000597505	0.499569044
Mkl2 239719	1.00053492	0.499335841	1.00053492	0.499335841
Hibch 227095	1.000505463	0.498671211	1.077505787	0.31378782
Rbms1 56878	1.000499782	0.499587368	1.467420972	0.214228303
Ppig 228005	1.00031052	0.498434902	-1.017696387	0.369424557
Sel1 20338	1.000281742	0.499333782	1.003178045	0.492538965
Myg1 60315	1.000274793	0.499244102	1.096256272	0.246349852
Ndufb8 67264	1.000194634	0.499352391	-1.067309241	0.269759327
Hmgn1 15312	1.000192624	0.499067924	-1.042153066	0.295256168
Gadd45gip1 102060	1.000191723	0.499684132	-1.175405635	0.239654177
Slc35e1 270066	1.000189697	0.499444107	1.079821199	0.256953964
Zc3h3 223642	1.00009819	0.499752297	-1.09225947	0.258129378
Eif3g 53356	1.000077139	0.499770529	1.143987014	0.122302503
C1qbp 12261	1.000058707	0.499725948	-1.102626369	0.063848346
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Ube1y1 22202	-1	#DIV/0!	1	#DIV/0!
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Gal 14419	-1	#DIV/0!	1	#DIV/0!
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Cdx1 12590	-1	#DIV/0!	1	#DIV/0!
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Omt2b 382088	-1	#DIV/0!	1	#DIV/0!
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Tcf21 21412	-1.00262964	0.496322614	-1.201928702	0.25622666
Plek 56193	-1.002650222	0.498290264	1.861388373	0.151782945
Homer2 26557	-1.002685029	0.492999749	-1.088412459	0.287685599
Spsb1 74646	-1.002685861	0.496313678	1.163540529	0.266966271
Mllt11 56772	-1.002721251	0.496954398	1.20185781	0.314002842
Sertad2 58172	-1.002775507	0.494977328	-1.184834716	0.185679231
H13 14950	-1.002868591	0.492642546	-1.000184767	0.499374015
Tomm40 53333	-1.002887264	0.491960764	-1.002887264	0.491960764
E2f2 242705	-1.002944512	0.498061741	-1.603370829	0.237225529
Lsm6 78651	-1.00295136	0.493311924	-1.204997494	0.10910073
Nudt19 110959	-1.003096579	0.488712668	-1.042049081	0.312645531
Cnksr3 215748	-1.003106969	0.493053537	-1.119046605	0.214081735
Hps4 192232	-1.003204235	0.491341586	1.174815916	0.079219119
Fam165b 68936	-1.003266709	0.493480639	-1.003266709	0.493480639
Chmp2a 68953	-1.003293234	0.492541881	-1.097096348	0.301487875
Higd1a 56295	-1.003348362	0.486688198	-1.05860195	0.279427651
Ccdc71 72454	-1.003361573	0.475710699	1.03266187	0.250879292
Mkl1 223701	-1.003371889	0.492384661	1.027191099	0.395537335
Rpain 69723	-1.003379083	0.490231742	-1.177183732	0.055692167
Arrb1 109689	-1.003397991	0.48800402	-1.124907627	0.086258535
Rps29 20090	-1.003399329	0.497263414	1.513614703	0.19563049
Slc22a17 59049	-1.003462187	0.495572469	-1.268226212	0.204154455
Cyth2 19158	-1.003495377	0.489287569	1.077218322	0.270965662
Safb 224903	-1.003621243	0.487976637	-1.003621243	0.487976637
Eprs 107508	-1.003641391	0.478151067	-1.03412978	0.308108135
Vtn 22370	-1.003660733	0.493592133	-1.0690491	0.324556222
Krtcap2 66059	-1.003711782	0.491370532	-1.099900381	0.288742468
Slc25a40 319653	-1.003738992	0.497696609	1.24673798	0.369951756
Tceal8 66684	-1.003775473	0.49155846	-1.232973839	0.046113672
Mob2 101513	-1.003822088	0.492819913	-1.29925595	0.036873389
H2-K1 14972	-1.003844639	0.484501754	-1.103875929	0.104065938
2310022A10Rik 66367	-1.003905446	0.487147125	-1.003905446	0.487147125
Smad5 17129	-1.003927879	0.486638693	-1.071785495	0.269489861
BC048355 381101	-1.003933192	0.489366134	1.069850374	0.309782722
Kctd17 72844	-1.003956751	0.492881503	-1.099582027	0.326710785
Srgap3 259302	-1.004020067	0.494916438	-1.191354084	0.297349342
Tnfaip1 21927	-1.00402644	0.482543242	1.037718634	0.338024654
Suclg1 56451	-1.004030922	0.479769542	-1.060505455	0.190681382
Smarcad1 13990	-1.004054115	0.493562307	1.188259586	0.227318789
Farp1 223254	-1.004193616	0.490301945	1.10283179	0.276904897
Ptma 19231	-1.004213097	0.482604835	1.012370736	0.432767501
Cntfr 12804	-1.004238295	0.492006941	-1.004238295	0.492006941
Gm9199 668489	-1.004241094	0.497125346	1.4358054	0.292430042

Rbm38 56190	-1.004265215	0.495014538	-1.166964687	0.301079282
Zbtb11 271377	-1.004282359	0.495841806	-1.608909321	0.087823726
Itfg2 101142	-1.004407687	0.477330411	1.023929788	0.381683476
Zbtb7a 16969	-1.004443028	0.488164356	1.004097473	0.481982178
Gm3258 100041294	-1.004447061	0.488028887	-1.031139544	0.425632727
Creb1 12912	-1.004455057	0.494373861	1.157521577	0.298848024
Stk40 74178	-1.004468872	0.474491835	-1.049539916	0.219111944
Zfp408 381410	-1.004621975	0.486821125	-1.002030616	0.492902673
Rrp8 101867	-1.004693984	0.482513265	1.001765374	0.492004283
Prcc 94315	-1.004704021	0.488132509	-1.105368538	0.25196378
Abca5 217265	-1.004712664	0.495080511	-1.004712664	0.495080511
Ras111b 68939	-1.004743649	0.491080912	-1.004743649	0.491080912
Mrpl15 27395	-1.004767813	0.487610051	-1.080190937	0.195314422
Ccdc107 622404	-1.004768798	0.491166436	1.010749385	0.474893515
Abcd4 19300	-1.004952128	0.489533369	-1.004952128	0.489533369
Eaf1 74427	-1.00496096	0.493846542	1.44431709	0.072330542
Cad 69719	-1.005105505	0.487347598	-1.074996929	0.333799137
Efr3a 76740	-1.005119537	0.483366453	-1.084411046	0.237197706
Agpat3 28169	-1.005157137	0.464446231	-1.005157137	0.464446231
Ddx46 212880	-1.005165165	0.492405886	1.23191265	0.185198703
Mamld1 333639	-1.005226199	0.496586031	-1.547243792	0.231027677
Klf2 16598	-1.005244234	0.490153425	1.177703973	0.17129259
Calcoco1 67488	-1.005303857	0.474131461	-1.040449627	0.158845321
Pnpla7 241274	-1.005330369	0.483721783	1.013464733	0.444272944
Fcgrt 14132	-1.005346174	0.483919699	1.011763648	0.454540964
2510002D24Rik 72307	-1.005479453	0.486636032	-1.005479453	0.486636032
A430105I19Rik 214239	-1.005481691	0.493422939	-1.20292438	0.246808271
Gm11127 100529082	-1.005529388	0.489703091	-1.04273492	0.404958942
Shc1 20416	-1.005534575	0.472573697	1.069618892	0.059445749
Reps1 19707	-1.005547823	0.489534985	1.067531967	0.387604509
Pogk 71592	-1.005634368	0.492541136	1.409000647	0.072485385
Hmgn2 15331	-1.005679914	0.487595996	1.088243088	0.304004914
Fuk 234730	-1.005711618	0.488224239	-1.005711618	0.488224239
Al316807 102032	-1.005731138	0.474432162	1.044680598	0.303045346
2310001A20Rik 71881	-1.00580067	0.481027988	-1.104701764	0.092653545
Jmjd7 433466	-1.005888354	0.494346762	-1.312887705	0.264402531
Smtnl2 276829	-1.005955983	0.496961328	-1.893566965	0.212929597
Tmx1 72736	-1.005963394	0.485332464	1.04400405	0.402957044
Stard5 170460	-1.00597889	0.48020652	1.142560385	0.064095887
Tap1 21354	-1.006063574	0.488058838	-1.054915067	0.363877177
Zmat2 66492	-1.00610091	0.469402439	-1.044076894	0.294106453
5430417L22Rik 100043272	-1.006186049	0.486170912	1.045297317	0.360618876
Plcg1 18803	-1.006225527	0.480129382	-1.005824745	0.468351556
Nudt2 66401	-1.00642425	0.488160665	-1.00642425	0.488160665
40973 69104	-1.006461732	0.4739953	-1.051847788	0.297880094
Dtnbp1 94245	-1.006494891	0.485420699	-1.096734356	0.305637498
Afg3l1 114896	-1.006508274	0.464773486	-1.058749659	0.154225715
Ppfia1 233977	-1.006521577	0.489945557	1.228435476	0.164804769
D10Wsu102e 28109	-1.006563821	0.483748351	-1.094917726	0.28628946
Net1 56349	-1.006586728	0.485200625	-1.107878909	0.280690559
Trpc4ap 56407	-1.006600065	0.475542596	-1.077544409	0.221611757
Mpp6 56524	-1.006602048	0.468697618	-1.108283012	0.029277064
Arih1 23806	-1.006613601	0.483881108	1.116175241	0.217006068

Crcp 12909	-1.006657366	0.483102258	1.072279555	0.313805924
Lsg1 224092	-1.006674345	0.479298229	-1.061287148	0.317531671
Ndufs2 226646	-1.006706705	0.44252716	1.015392967	0.368504584
Uevld 54122	-1.006744638	0.494372074	1.44731878	0.21808598
Chuk 12675	-1.006773476	0.487171165	1.132163939	0.268015594
Rmnd1 66084	-1.006829668	0.485964202	-1.006829668	0.485964202
Syn1 20964	-1.006832031	0.49397609	-1.006832031	0.49397609
Slc25a28 246696	-1.006845945	0.478599374	-1.006845945	0.478599374
Slc16a6 104681	-1.006872247	0.492581533	1.512617567	0.090170125
Casc3 192160	-1.0068954	0.48090795	1.159144594	0.104856387
Apol7e 666348	-1.006925777	0.496790846	-1.7804	0.173296754
Dync1i2 13427	-1.006979379	0.48703788	-1.101585788	0.335281409
4833439L19Rik 97820	-1.007010077	0.478501694	1.058973948	0.315474941
Pglyrp1 21946	-1.007207676	0.49720062	-1.262599539	0.402575049
Smarca5 93762	-1.007319086	0.483527972	1.112453029	0.214658655
Btdb7 238386	-1.00734753	0.494312112	1.364669794	0.28997094
Gm11428 100034251	-1.007443553	0.489029797	1.095504804	0.364125115
Gm15455 433287	-1.007478691	0.485500489	-1.007478691	0.485500489
Inpp1 16332	-1.007530072	0.463035614	-1.05319658	0.25219222
Mthfsd 234814	-1.007540877	0.478627143	-1.180489471	0.063525568
Calu 12321	-1.007684971	0.472476015	-1.007684971	0.472476015
Gpr116 224792	-1.007687937	0.481311207	1.229078454	0.007552908
Trim8 93679	-1.007695664	0.45573622	1.077459466	0.053787025
Ap4m1 11781	-1.007757152	0.490833234	1.211464932	0.190855277
Pphln1 223828	-1.007791342	0.481531491	1.192296116	0.090112107
Zfp563 240068	-1.007817873	0.490577822	-1.007817873	0.490577822
Mier2 70427	-1.007829878	0.478413542	-1.05639247	0.325327492
Ap2b1 71770	-1.007845083	0.467824705	1.113627837	0.051363693
Bnip2 12175	-1.007864706	0.481148443	-1.007864706	0.481148443
Ciita 12265	-1.007881731	0.495970361	2.293962892	0.168028304
Cd68 12514	-1.007937151	0.483828659	-1.009897125	0.466951887
Pdp1 381511	-1.007989058	0.49674815	-2.8	0.173296754
Pcdhb18 93889	-1.007989058	0.49674815	-2.8	0.173296754
Ythdf1 228994	-1.008058645	0.476089848	-1.008058645	0.476089848
Perp 64058	-1.008072664	0.465497034	-1.008072664	0.465497034
Mkks 59030	-1.008120597	0.467784228	1.104520192	0.101116017
Ifngr1 15979	-1.008212568	0.481892955	-1.153291744	0.081645806
Alg2 56737	-1.008218195	0.483620784	-1.008218195	0.483620784
9330111N05Rik 319983	-1.008223578	0.482325407	-1.008223578	0.482325407
Azi1 12009	-1.008247043	0.483468703	-1.008247043	0.483468703
Fbxl6 30840	-1.008313642	0.469174908	-1.008313642	0.469174908
Nolc1 70769	-1.008340387	0.467169367	1.053450771	0.287983637
Herpud2 80517	-1.008351306	0.486209054	-1.078222689	0.359186483
Rap2a 76108	-1.00835702	0.487076361	-1.169661775	0.272546932
Ube2q1 70093	-1.008395697	0.455080367	-1.008395697	0.455080367
Zbtb22 81630	-1.008407524	0.469649596	1.068294638	0.243410145
Dhcr7 13360	-1.008432459	0.471882753	1.068039852	0.272432954
Retsat 67442	-1.008517458	0.479734011	1.08407342	0.312904356
Maea 59003	-1.008524772	0.458604409	-1.008524772	0.458604409
Zfp330 30932	-1.00862235	0.475352722	1.021831495	0.386637023
Zfp707 69020	-1.008671119	0.468501731	-1.136824935	0.073691269
Psm5 66998	-1.008684934	0.481515897	1.030733926	0.414965323
Pafah1b2 18475	-1.0086924	0.47277594	-1.064079474	0.307209424

Cpsf4 54188	-1.008771274	0.469599481	1.110474353	0.135973626
Slc7a6os 66432	-1.008821414	0.473937387	1.158475362	0.063107374
Brms1 107392	-1.008990809	0.477691375	-1.008990809	0.477691375
Polr2c 20021	-1.008994147	0.478031762	-1.008994147	0.478031762
Lig1 16881	-1.009064273	0.488751035	1.177050028	0.313142235
Rrp1b 72462	-1.009113516	0.485730659	-1.282282662	0.075238759
Sgk2 27219	-1.009141614	0.466415221	-1.071629243	0.253371483
Cadm1 54725	-1.009157193	0.474035898	-1.189033424	0.035811804
Rictor 78757	-1.009213523	0.489751268	-1.009213523	0.489751268
Mrpl41 107733	-1.009237732	0.479859282	1.077729428	0.32932327
Cish 12700	-1.009260825	0.467720744	1.005981904	0.474526321
Rrn3 106298	-1.009269206	0.475023161	1.100342016	0.223156962
Sema5a 20356	-1.009316207	0.493175485	-1.009316207	0.493175485
Pnp 18950	-1.009414856	0.464214707	1.106152126	0.123145585
Sertad3 170742	-1.009444426	0.474972364	1.103209936	0.219458042
Chrna2 110902	-1.009476801	0.473963745	1.093625875	0.198134428
Golph3 66629	-1.00949447	0.484225661	1.10317045	0.32813769
Ninj1 18081	-1.009526838	0.480259799	-1.04013316	0.384804368
Polr2b 231329	-1.009533628	0.477952414	-1.225124952	0.04629953
Gmds 218138	-1.009567421	0.488835746	1.103543446	0.380204109
Car5b 56078	-1.00959325	0.486194264	-1.00959325	0.486194264
Pygb 110078	-1.009624394	0.482247518	1.176728191	0.174616499
Hs3st3a1 15478	-1.009740329	0.49161455	-1.426193587	0.17974999
Elmo1 140580	-1.009752622	0.487916055	1.46414219	0.037355499
Mastl 67121	-1.009766255	0.495725951	-4.016833333	0.093227909
2310007B03Rik 71874	-1.009766255	0.495725951	-4.016833333	0.093227909
Lekr1 624866	-1.009766255	0.495725951	-4.016833333	0.093227909
Vdr 22337	-1.009766255	0.495725951	-4.016833333	0.093227909
Fam184a 75906	-1.009766255	0.495725951	-4.016833333	0.093227909
Wfdc3 71856	-1.009766255	0.495725951	-4.016833333	0.093227909
Ces3b 13909	-1.009840001	0.473003427	-1.018160818	0.425719581
Sat2 69215	-1.009888868	0.473805042	-1.009888868	0.473805042
Zdhhc14 224454	-1.010057265	0.480791161	-1.270652504	0.080180145
Sdhd 66925	-1.010094555	0.447414048	1.02754111	0.358182858
Eri3 140546	-1.010181752	0.472900441	-1.128917929	0.16505362
Camk2n2 73047	-1.010189176	0.480524848	1.112712849	0.301726765
Sec11c 66286	-1.010200629	0.48111833	-1.181417689	0.190224716
Thap4 67026	-1.010231995	0.467207911	-1.010231995	0.467207911
Zmym3 56364	-1.010283182	0.480503606	-1.123950544	0.293048896
0610007P22Rik 68327	-1.010295566	0.472479474	-1.010295566	0.472479474
Ivns1abp 117198	-1.010362206	0.479872257	1.156125847	0.198975504
Tmsb4x 19241	-1.01036414	0.485960721	-1.362116403	0.042575778
Gnb5 14697	-1.010429306	0.491804739	-1.448134364	0.244553918
Trim34a 94094	-1.010432839	0.4863821	-1.278957027	0.185288458
Rab13 68328	-1.010540789	0.486354442	-1.292437486	0.171597439
Rnasel 24014	-1.01054626	0.485389094	-1.185906281	0.281553993
Mrpl48 52443	-1.010564348	0.477733777	1.101927616	0.29892755
Usp5 22225	-1.010578121	0.451356726	-1.010578121	0.451356726
Tbc1d15 66687	-1.010607846	0.479433835	-1.029562495	0.424942879
Kat2b 18519	-1.010662626	0.482854791	-1.010662626	0.482854791
Mtmr11 194126	-1.010702147	0.490340785	-1.702306718	0.071330792
Arfrp1 76688	-1.010749603	0.465990041	-1.010749603	0.465990041
Gfpt1 14583	-1.010754202	0.486867317	1.108217012	0.350640912

Snx3 54198	-1.010837684	0.424786927	1.022789696	0.331579577
Reps2 194590	-1.010860351	0.490728802	1.372462499	0.184389685
Nfatc3 18021	-1.010942744	0.479416686	1.031701873	0.424961117
41159 235072	-1.010977346	0.482275906	1.18415345	0.162441895
Alg1 208211	-1.010995208	0.433315221	-1.053503304	0.186001788
Taldo1 21351	-1.011085288	0.4631845	1.11610248	0.139808752
Klf3 16599	-1.011091687	0.477146299	-1.173993203	0.158472359
Aven 74268	-1.011092413	0.475603361	-1.045606609	0.411736893
D16H22S680E 27883	-1.011137632	0.471746208	1.098621312	0.207998184
Dffb 13368	-1.011137852	0.48564645	-1.011137852	0.48564645
Txn1 53382	-1.011168442	0.464829822	-1.040378178	0.328966397
Slc35b1 110172	-1.011261066	0.476969655	1.122473778	0.259672076
Zfp41 22701	-1.011298127	0.491012579	-1.012545531	0.488901211
Irf2bp1 272359	-1.011366562	0.465917502	-1.011366562	0.465917502
Slc17a2 218103	-1.011426119	0.466629606	-1.119183992	0.158174973
Plcl2 224860	-1.011431245	0.466587483	1.0640953	0.301651934
Rab40c 224624	-1.011460157	0.463890815	1.131556953	0.101257686
Zfp644 52397	-1.011473142	0.486345522	-1.181606569	0.285317452
Srfbp1 67222	-1.011543527	0.466398561	-1.011543527	0.466398561
Aspscr1 68938	-1.011551306	0.471621369	1.046041781	0.390580522
Stx17 67727	-1.011574175	0.469635313	-1.011574175	0.469635313
Gm4902 236451	-1.011630684	0.486758837	-1.011630684	0.486758837
Mt1 17748	-1.011645435	0.485953782	1.02881185	0.460829401
Hsd17b7 15490	-1.011653459	0.484431635	-1.011653459	0.484431635
Tspan4 64540	-1.011670224	0.468998748	1.110014188	0.186350872
Nol9 74035	-1.011755953	0.404023893	-1.040787845	0.173111105
Fkbp9 27055	-1.01175796	0.468687234	-1.04495142	0.390633806
Nfx1 74164	-1.011807748	0.463324185	-1.000492883	0.498017431
Mrpl21 353242	-1.011888964	0.462785883	-1.072674757	0.29403014
Eml3 225898	-1.011893878	0.453283248	-1.03250026	0.302971693
Ggnbp2 217039	-1.011941954	0.472172675	-1.102164039	0.263336831
Zfp275 27081	-1.012013328	0.483943853	-1.190344854	0.236617109
Ins13 16336	-1.012078886	0.49302935	-2.019042817	0.167534604
Tfap4 83383	-1.012247587	0.469525516	-1.005965192	0.48175261
Tmem9b 56786	-1.012306623	0.47802948	-1.221233077	0.124904917
Gstk1 76263	-1.012316897	0.415854235	1.025141178	0.298354048
C1d 57316	-1.012324729	0.455088926	-1.012324729	0.455088926
Spata13 219140	-1.012332674	0.477892227	1.124481784	0.181258025
Psm11 69077	-1.012351845	0.446164684	1.026670238	0.383245877
Rps7 20115	-1.012406672	0.468583534	-1.204245291	0.06613148
Impg2 224224	-1.012461286	0.488263003	-1.375225352	0.225993519
Cxxc1 74322	-1.012476915	0.446998324	1.04495688	0.302164719
Acadl 11363	-1.012530841	0.4618299	1.057571486	0.330368047
Psm10 53380	-1.012561445	0.470279478	1.097547789	0.274645469
Il17rd 171463	-1.012577145	0.490620378	1.641166232	0.156742294
Abhd1 57742	-1.012614634	0.48851706	-1.012614634	0.48851706
Pcbp1 23983	-1.012618765	0.460840027	-1.012618765	0.460840027
Zfp575 101544	-1.012753364	0.480269527	-1.080854246	0.363312849
Lrrk1 233328	-1.01283419	0.47284884	1.076668999	0.335451393
U2af1 108121	-1.012934981	0.476337352	-1.012934981	0.476337352
Ccdc123 72140	-1.012947772	0.471625414	-1.012947772	0.471625414
Zfp759 268670	-1.012963073	0.487154047	-1.205257318	0.300335651
Brd2 14312	-1.012970508	0.444140308	-1.067772423	0.206431016

Gdi1 14567	-1.013046894	0.436835483	-1.00343735	0.477931405
Osbp18 237542	-1.013172667	0.476762823	1.225888836	0.061643041
Hunk 26559	-1.013255419	0.482969702	1.425147735	0.063021599
Map2k2 26396	-1.013258331	0.47057996	-1.112106215	0.277814314
Sepp1 20363	-1.013279145	0.447406578	1.028593921	0.391823304
Rdh14 105014	-1.013387644	0.474967253	-1.277318642	0.072642727
Tmcc1 330401	-1.013389702	0.457655461	1.044081579	0.35869808
Ilf3 16201	-1.013447516	0.454782438	1.078536861	0.206380588
Fkbp1 56299	-1.013453705	0.481449649	-1.219779263	0.241490525
Sil1 81500	-1.013454137	0.474672688	-1.013454137	0.474672688
Adcy4 104110	-1.013459292	0.470017816	-1.244664208	0.04676644
Brwd3 382236	-1.01348546	0.484017236	1.460486548	0.05979764
Ftsj1 54632	-1.01350826	0.436708369	-1.047238516	0.300044646
Pde9a 18585	-1.013670537	0.460152573	-1.111878863	0.189571792
1200014J11Rik 66874	-1.013680696	0.468398414	1.128684786	0.185540899
Rac1 19353	-1.013689095	0.404354604	-1.041771921	0.222798497
2310046K01Rik 69698	-1.013693919	0.490677745	-1.722583671	0.178732435
Stk35 67333	-1.013997551	0.467479977	1.026059939	0.443086131
4921524J17Rik 66714	-1.014007703	0.482327315	-1.501518454	0.0324447
Ces1d 104158	-1.014091084	0.464194493	-1.211696577	0.055225605
Atp2c1 235574	-1.014113794	0.474304689	1.120152458	0.297132694
Phb2 12034	-1.014150996	0.428298976	-1.042224913	0.307636692
Lsm12 268490	-1.014215253	0.462801055	-1.014215253	0.462801055
Etnk2 214253	-1.014315724	0.43392061	-1.038118393	0.305639334
Pabpc4 230721	-1.014349977	0.428497864	1.031909685	0.323921038
Aim1 11630	-1.014358561	0.474340988	-1.099105496	0.332593106
Gpr56 14766	-1.014397923	0.468268044	-1.248523124	0.045127837
1810019J16Rik 69073	-1.014401365	0.45099923	-1.014401365	0.45099923
2610027L16Rik 67842	-1.014448559	0.427770249	1.003030951	0.479657866
Chchd3 66075	-1.014448899	0.441521888	1.043097236	0.321267852
Ntng2 171171	-1.014462835	0.493334813	-1.722963636	0.273335094
Chek2 50883	-1.014496383	0.489544714	-2.056027442	0.059523874
Dbn1 56320	-1.014515795	0.48263683	-1.132796966	0.350466069
Trit1 66966	-1.014528272	0.466730083	-1.033315103	0.375452876
Tor2a 30933	-1.014534734	0.449044015	-1.081206809	0.236113906
Cebpe 110794	-1.014615898	0.476374771	-1.002946627	0.494693598
Arl10 56795	-1.014633093	0.487425768	1.049882659	0.437044848
Psmc3 22123	-1.014641834	0.453589576	-1.060533174	0.32912327
Myh10 77579	-1.014670007	0.481765953	1.233396622	0.24458571
Psmb1 19170	-1.014818899	0.453358142	-1.180058068	0.028582581
41161 53860	-1.014897399	0.431860503	-1.004765894	0.470435298
4632415L05Rik 70808	-1.014923466	0.469686531	-1.014923466	0.469686531
Amd1 11702	-1.014927773	0.468462	1.069462241	0.36554785
Pex1 71382	-1.014983445	0.468209965	1.045967747	0.411916032
Dhx57 106794	-1.015005079	0.476381426	-1.183973157	0.189943619
Gck 103988	-1.015029915	0.484475162	-1.241606208	0.288608638
Rbx1 56438	-1.015167791	0.429248349	-1.02287842	0.362436391
Gabarap 56486	-1.015255484	0.461977821	-1.117320345	0.232308309
Ovca2 246257	-1.015280094	0.435037295	-1.088207904	0.088682864
Akirin1 68050	-1.015288116	0.452967877	-1.010297535	0.461362748
Cd59b 333883	-1.015396651	0.478602573	1.139310071	0.330291212
Enpp3 209558	-1.015418678	0.464785205	-1.151501774	0.174579021
Ssu72 68991	-1.015485635	0.421048851	-1.065404745	0.163043956

Gm16517 110012	-1.015543835	0.470016735	-1.015543835	0.470016735
Plbd2 71772	-1.01554994	0.457085642	-1.099280814	0.250377964
Tfam 21780	-1.01555586	0.456650648	1.064209729	0.325747969
Slc27a5 26459	-1.015764689	0.418349162	-1.067371902	0.143102448
Atp13a1 170759	-1.015770134	0.424763259	-1.015770134	0.424763259
Ccdc142 243510	-1.015912875	0.434845931	-1.080259792	0.160962123
Aip 11632	-1.015915485	0.455687456	-1.207549184	0.024152885
Maf1 68877	-1.015937632	0.460300874	-1.015937632	0.460300874
Ctnna1 12385	-1.015977726	0.451456098	1.125353416	0.141448221
Npy1r 18166	-1.015986716	0.492263219	-2.098176768	0.227724758
Ilf2 67781	-1.016083643	0.458375643	-1.1990108	0.056818032
Fam3a 66294	-1.016120499	0.44848018	-1.060825354	0.318729957
Mtpap 67440	-1.016169221	0.469422954	1.063331713	0.382603853
Bysl 53414	-1.016223913	0.443461886	1.063139893	0.234752158
Timm44 21856	-1.016289743	0.434522443	1.021156029	0.415553008
Puf60 67959	-1.016364662	0.418355411	-1.048402773	0.282531247
Arf3 11842	-1.016373691	0.466113632	1.027721028	0.412778226
Snw1 66354	-1.016385322	0.428304239	-1.072512607	0.202700872
Crem 12916	-1.016387365	0.473953622	-1.340753796	0.076745199
Pld2 18806	-1.016416704	0.474890679	-1.210839036	0.188944119
Efha1 68514	-1.016454764	0.417737305	-1.11238006	0.037518934
Galnt14 71685	-1.016474095	0.491610936	-1.750086636	0.276292757
Ptgds 19215	-1.016475262	0.484900046	-1.016475262	0.484900046
Ndufa7 66416	-1.01648804	0.45573259	-1.200379663	0.052900578
Oplah 75475	-1.016506243	0.399882909	-1.021915469	0.293075777
Dhx37 208144	-1.016535922	0.464015783	-1.116006394	0.275979529
Cdc37 12539	-1.016548695	0.467918356	-1.014912962	0.46137081
Tmem222 52174	-1.016556404	0.463250024	-1.09915089	0.306207986
Gnpat 14712	-1.016585078	0.427223074	-1.072437747	0.202405174
Miip 28010	-1.016652706	0.45880521	1.068694842	0.33785042
Itrip 414801	-1.016835285	0.475761984	-1.440364137	0.022395959
Uqcc 56046	-1.016880499	0.407937	-1.061501212	0.186030105
Wdr74 107071	-1.016913477	0.457019588	-1.016913477	0.457019588
Osbpl9 100273	-1.016997357	0.423528894	-1.048544534	0.297918709
Sema4b 20352	-1.017073415	0.453493895	-1.017073415	0.453493895
Cchr1 240084	-1.017076273	0.479141015	1.281738778	0.187172756
Aga 11593	-1.017077579	0.447887608	1.127312955	0.130688684
Yipf4 67864	-1.017085053	0.460939017	1.096654103	0.282371617
Lrrc8a 241296	-1.01713364	0.447985291	-1.115855365	0.163502237
Ankfy1 11736	-1.017182518	0.466655192	1.242442593	0.078035127
Adam23 23792	-1.017222936	0.462914574	1.056033686	0.389614636
Tmub2 72053	-1.017250255	0.416641964	1.005783185	0.473625778
C1qc 12262	-1.017252378	0.45699747	-1.144003493	0.158812618
Sars 20226	-1.017460537	0.442874267	-1.077895645	0.26988268
Ctr9 22083	-1.017508647	0.449024999	1.065135546	0.288477475
Il1rap 16180	-1.017586978	0.460606223	-1.017586978	0.460606223
Casp9 12371	-1.017592248	0.456729312	-1.017592248	0.456729312
Bcl7b 12054	-1.017599161	0.440710257	-1.096295309	0.163045245
Dot1l 208266	-1.017613234	0.476640291	1.056557752	0.404781714
Mrpl27 94064	-1.017616763	0.430658997	-1.054513251	0.308433611
Fahd1 68636	-1.017786516	0.456822252	-1.076796583	0.156163184
Aplp1 11803	-1.017790247	0.490679887	-1.238100091	0.415076597
Trim24 21848	-1.017859442	0.461590776	-1.13896577	0.18631951

Snurf 84704	-1.017972742	0.487159005	-1.017972742	0.487159005
Psd4 215632	-1.017984988	0.464195902	-1.033978063	0.399096328
Prss8 76560	-1.018055057	0.483379467	-1.436967838	0.191906697
Rgs1 50778	-1.018099729	0.486600934	-1.018099729	0.486600934
S100a16 67860	-1.018122074	0.470598031	-1.118246988	0.23887655
Napepld 242864	-1.018192992	0.490400583	-1.571790977	0.158746995
Arhgef26 622434	-1.018232715	0.459367007	-1.232870483	0.080369388
Fars2 69955	-1.018264583	0.461443518	1.047541375	0.355101916
Mdp1 67881	-1.018294484	0.460185619	-1.133194777	0.20025742
Acp1 11431	-1.018326131	0.413009277	-1.010126093	0.422332551
Nif3l1 65102	-1.018377676	0.449455532	-1.134807836	0.143696638
Mtmr4 170749	-1.01841746	0.453358192	-1.01841746	0.453358192
Uhrf1bp1 75089	-1.018511651	0.457099995	1.054722811	0.372393401
Degs1 13244	-1.018517325	0.433321781	1.062715508	0.245723487
Polr2j 20022	-1.018544277	0.462435805	1.128120726	0.239339535
Zswim5 74464	-1.018854065	0.484475875	1.911973184	0.00861303
Elof1 66126	-1.018957795	0.467432613	-1.006310242	0.484193251
Slc4a2 20535	-1.019032791	0.317550544	-1.019032791	0.317550544
Cyhr1 54151	-1.019039236	0.440804527	-1.099182908	0.215886249
Ufm1 67890	-1.019100852	0.433652981	1.057110159	0.287657899
Tmed3 66111	-1.019116794	0.467280211	1.156097836	0.241217187
Nt5dc3 103466	-1.019120915	0.461049725	-1.019120915	0.461049725
Arrdc2 70807	-1.019138834	0.475144162	-1.019138834	0.475144162
Scp2 20280	-1.019155825	0.432652535	-1.154471539	0.054275603
Slc35b2 73836	-1.019174686	0.406965635	-1.019174686	0.406965635
Lcorl 209707	-1.019209648	0.490846068	-1.162032469	0.433589133
Brc3 210766	-1.019292389	0.46885037	-1.232332043	0.163227775
C230096C10Rik 230866	-1.019304824	0.456971917	-1.16418641	0.156888728
Ulk3 71742	-1.01936618	0.462430927	-1.274968752	0.072231961
Dst 13518	-1.019423187	0.425181402	1.106807972	0.067949743
Ppp2r1b 73699	-1.019471027	0.458592069	-1.038299953	0.369585078
Fastk 66587	-1.019533641	0.398032218	-1.019533641	0.398032218
Serinc5 218442	-1.019582587	0.482127474	1.479551381	0.137271807
Zfp329 67230	-1.019615262	0.479803571	-1.219391763	0.275616332
Ikzf5 67143	-1.019642888	0.476541547	-1.019642888	0.476541547
Arhgef25 52666	-1.019673461	0.475833314	1.1731677	0.268103729
F2 14061	-1.01968402	0.430066877	-1.157615591	0.015133252
1500011H22Rik 68948	-1.01969598	0.475443605	1.012060357	0.475150693
C130036L24Rik 319336	-1.019839084	0.480998591	-1.41624733	0.190406543
Cdk6 12571	-1.019849315	0.478774524	1.19550285	0.324427888
Ctdsp2 52468	-1.019860158	0.401033091	-1.082078996	0.103393156
Galk1 14635	-1.019893628	0.460426658	-1.08875349	0.258909151
Spnb3 20743	-1.019948706	0.415716107	-1.019948706	0.415716107
Smarcb1 20587	-1.019995159	0.437402138	-1.168620049	0.066757765
Fam89b 17826	-1.020091228	0.438274556	-1.020091228	0.438274556
Top1 21969	-1.020171427	0.46966798	1.358948711	0.028971237
Tgs1 116940	-1.020268447	0.458131851	1.131362384	0.218893067
Trip6 22051	-1.020340923	0.43035838	1.050861065	0.301028654
Spred1 114715	-1.02034746	0.484976865	-1.365186658	0.303152818
Pitpnm2 19679	-1.020508612	0.432976129	-1.180191325	0.02300071
Txndc12 66073	-1.020545261	0.436688825	-1.025843726	0.394070862
Clec4a2 26888	-1.020608257	0.483173358	-1.398609928	0.259634157
Sh3bgrl3 73723	-1.020716537	0.463491792	-1.068223706	0.33636104

Dnajc17 69408	-1.020753602	0.462162691	-1.020753602	0.462162691
Use1 67023	-1.020754669	0.458151751	-1.166265815	0.196446585
Mosc1 66112	-1.020785253	0.419903587	-1.083048125	0.181760837
4930455F23Rik 74895	-1.020811367	0.459409764	-1.009066516	0.472224094
Wdr1 22388	-1.020812538	0.39709317	-1.020812538	0.39709317
Eppk1 223650	-1.020826318	0.452657155	-1.082501256	0.27403136
BC003965 214489	-1.020874349	0.441300987	-1.099425612	0.223704719
Tshz1 110796	-1.020897108	0.465423657	1.274984938	0.101135534
Pank1 75735	-1.020953357	0.463290262	1.103517952	0.33263809
B230312A22Rik 230088	-1.021020913	0.441339228	-1.015044179	0.424927294
Tmco1 68944	-1.021042238	0.45088885	1.180066089	0.107823898
Raly 19383	-1.021053564	0.451687489	-1.146177349	0.192716249
Polm 54125	-1.021078539	0.46045302	-1.109392497	0.265797587
Nek5 330721	-1.021082443	0.487944114	1.952283016	0.177025661
Ak2 11637	-1.02109502	0.374968646	-1.02109502	0.374968646
Vps18 228545	-1.021113069	0.401464174	-1.021113069	0.401464174
Gm14326 665211	-1.021141524	0.475223023	-1.254907086	0.255777601
Sra1 24068	-1.021155494	0.438961841	-1.021155494	0.438961841
Mrpl50 28028	-1.02120169	0.413748741	-1.058473058	0.279443365
Ddx50 94213	-1.021204765	0.397311581	1.01561529	0.384727216
Znrf2 387524	-1.021239472	0.472413125	1.289029077	0.133323618
Pdrg1 68559	-1.021496025	0.449095217	1.070419158	0.320098528
Xab2 67439	-1.021658756	0.425740919	1.009679122	0.461047905
Cpsf2 51786	-1.021720175	0.46005523	1.091874929	0.321182031
Sbno2 216161	-1.021756769	0.443648649	-1.078685103	0.320852258
Mamdc4 381352	-1.021810856	0.483479225	1.804995212	0.044653072
Donson 60364	-1.021835953	0.484930508	-1.021835953	0.484930508
Tax1bp1 52440	-1.021836694	0.454134384	1.205625463	0.102565219
Ugt2b5 22238	-1.021872986	0.426191673	-1.021872986	0.426191673
Lrrc57 66606	-1.021887358	0.462426658	1.134536912	0.093054222
Thoc3 73666	-1.021919936	0.420351783	-1.167550495	0.014052069
Nde1 67203	-1.021939035	0.456470232	-1.167041574	0.201959982
Mapre2 212307	-1.02194946	0.44649216	-1.203935982	0.098254726
Tmem33 67878	-1.021968372	0.442481353	1.069114581	0.31888893
Suv420h1 225888	-1.021988831	0.449054011	-1.11623551	0.261093463
Stk38 106504	-1.022083975	0.4180268	1.027799983	0.397736677
Actr8 56249	-1.022137184	0.434144277	-1.078186767	0.280910752
Rg9mtd1 52575	-1.022253282	0.439131135	-1.022253282	0.439131135
Maff 17133	-1.022273748	0.475096288	-1.022273748	0.475096288
Zfp653 319601	-1.022334371	0.456695926	-1.11653216	0.282746087
Mrpl37 56280	-1.022399457	0.399382629	-1.123287753	0.053243855
Tpst2 22022	-1.022453467	0.424169088	1.05374961	0.28482476
Ticam1 106759	-1.022571162	0.437240479	1.07748035	0.270405278
Pemt 18618	-1.022668429	0.454661337	-1.019999524	0.44439405
Vps37c 107305	-1.022785211	0.415150467	-1.005549551	0.473427529
1500032L24Rik 69029	-1.02282793	0.44721519	1.078691312	0.321574019
Cdk14 18647	-1.022858744	0.486127657	-1.222242267	0.387350903
Pfkip 56421	-1.022869784	0.472128391	-1.223250592	0.218417019
Rab4b 19342	-1.022896665	0.451796533	-1.010003115	0.465380264
Lrrc16a 68732	-1.022897172	0.481270207	1.579749624	0.018881243
Med11 66172	-1.022907689	0.463294202	1.120899178	0.288313183
Tox2 269389	-1.022920113	0.485844779	-1.155542448	0.390624835
Cfhr2 545366	-1.022941961	0.445385343	-1.061679415	0.330639894

Zfp53 24132	-1.022950658	0.475869636	-1.409805934	0.153102385
Rcor2 104383	-1.022972993	0.486864591	1.943674352	0.178354219
Faf1 14084	-1.022994951	0.424349683	-1.08232729	0.240619774
Slc30a1 22782	-1.022995755	0.446248897	1.089175495	0.289301889
Tm9sf3 107358	-1.023025486	0.424199587	-1.023025486	0.424199587
Zfp747 269997	-1.023112924	0.45194652	-1.023112924	0.45194652
Zfp335 329559	-1.023173256	0.456689334	-1.263450293	0.092015465
Tex264 21767	-1.023192874	0.43379411	-1.096881309	0.252565807
Steap3 68428	-1.023216552	0.429820245	-1.023216552	0.429820245
Gsn 227753	-1.023256848	0.466796614	1.221628356	0.192114475
Gm6724 626954	-1.023262755	0.476265398	-1.412183243	0.165951165
Brf2 66653	-1.023284331	0.460873044	1.092655014	0.338072811
Ptbp1 19205	-1.023298521	0.420500896	1.099291151	0.158193275
Rhot2 214952	-1.023304346	0.424662487	-1.181643916	0.021229183
Sar1a 20224	-1.023336644	0.375846168	-1.011937145	0.441106539
Pgd 110208	-1.023337115	0.410220299	-1.023337115	0.410220299
Bhlhe40 20893	-1.023359766	0.460703157	-1.068900017	0.345772027
Eif3a 13669	-1.023404091	0.443520072	1.106994531	0.216850191
Ghitm 66092	-1.023455871	0.4282928	-1.023455871	0.4282928
1200016B10Rik 66875	-1.023551389	0.466444411	1.170628217	0.210472654
Cog7 233824	-1.02370752	0.37824227	-1.070837648	0.147167555
Cinp 67236	-1.023760101	0.427829415	-1.023760101	0.427829415
Aph1a 226548	-1.023764647	0.31786268	-1.001368187	0.488637262
Fam168b 214469	-1.023860337	0.460340969	1.300733209	0.042922351
Chchd10 103172	-1.023940611	0.440888105	1.057030912	0.350873067
Gm98 225908	-1.023941101	0.440853007	1.086256157	0.067162919
Agap3 213990	-1.023976169	0.374721412	-1.023976169	0.374721412
Ckif 75458	-1.024059082	0.481921016	1.242318118	0.311822675
Lars2 102436	-1.024114226	0.468992557	-1.093691478	0.338781811
Rarres2 71660	-1.024222344	0.460412156	-1.254729475	0.121785472
Scarb2 12492	-1.024225849	0.355870037	1.024349864	0.310122594
Dusp11 72102	-1.02433203	0.43115359	1.017105831	0.429232476
Pfas 237823	-1.024372552	0.458593044	1.241307487	0.142184586
Wdr4 57773	-1.024381547	0.400364101	-1.136770683	0.047349848
Echs1 93747	-1.024393699	0.271643018	-1.053363228	0.059945523
Gabarapl1 57436	-1.024395513	0.433631697	-1.218154809	0.026686731
Polr2m 28015	-1.024431358	0.389462762	-1.024431358	0.389462762
Ccdc124 234388	-1.02444311	0.458482157	-1.02444311	0.458482157
Rnaseh1 19819	-1.024458845	0.454910831	-1.060177424	0.24777572
6530401N04Rik 328092	-1.024497271	0.420151383	1.050830284	0.307391746
Lima1 65970	-1.024576411	0.434219892	1.101068268	0.179385293
Wipi2 74781	-1.024647217	0.379378233	-1.087452362	0.09488452
Fetub 59083	-1.024749394	0.449997632	-1.2814143	0.04744876
Tmem66 67887	-1.024815705	0.380788613	-1.01767564	0.345376272
Rufy2 70432	-1.024819518	0.467318133	1.171045855	0.298148569
Snx32 225861	-1.024833567	0.467205913	-1.161807328	0.248149814
Spsb3 79043	-1.02488946	0.431944771	-1.21188211	0.034328386
Asxl2 75302	-1.024971472	0.470211959	-1.024971472	0.470211959
Zap70 22637	-1.025045435	0.449224075	1.08193598	0.320242993
P2ry2 18442	-1.025076866	0.436479599	-1.088548039	0.289374406
Tubgcp6 328580	-1.025153257	0.437197261	-1.025153257	0.437197261
Ddt 13202	-1.025184272	0.443924324	-1.025184272	0.443924324
Akap13 75547	-1.025204072	0.463262035	1.229518774	0.161757762

Hnrnpa1 15382	-1.025274729	0.453503481	-1.321820741	0.039671829
Snapc2 102209	-1.025275224	0.438271553	-1.214871793	0.076189296
Gimap3 83408	-1.025483879	0.446254034	-1.073467369	0.256997134
Fam108a 216169	-1.025485887	0.430785293	-1.11657214	0.180384626
Ssr4 20832	-1.025528467	0.42503235	-1.192910663	0.044178416
Dyrk2 69181	-1.025744412	0.46045835	-1.025744412	0.46045835
Mvp 78388	-1.025757795	0.434932873	-1.107330259	0.260059729
Zranb1 360216	-1.025782912	0.435764941	-1.025782912	0.435764941
Cox19 68033	-1.025795169	0.440474847	1.061208403	0.349880012
Mkrn1 54484	-1.025820305	0.421133637	-1.115916614	0.133706944
Sap18 20220	-1.025852973	0.359795874	-1.067299992	0.170666192
Camk1 52163	-1.025856211	0.464082787	1.165518735	0.132035249
Xcr1 23832	-1.025862323	0.476875322	1.156502255	0.360111999
Al182371 98870	-1.025874005	0.45105146	-1.230382019	0.090995833
1110001A16Rik 68554	-1.025894119	0.408263708	-1.025894119	0.408263708
Trpc2 22064	-1.025946932	0.46429671	1.088914164	0.391809288
Casc4 319996	-1.026005674	0.468578961	-1.235303892	0.17649846
1810035L17Rik 380773	-1.026013479	0.422517651	-1.117786707	0.177697011
Ado 211488	-1.02605601	0.431388696	-1.086087267	0.287851015
Dcaf8 98193	-1.026139944	0.339175093	-1.00385023	0.476307197
Rpl3 27367	-1.026156655	0.398757622	-1.072524577	0.236945873
Xpr1 19775	-1.026169173	0.371309195	-1.127800883	0.013166808
Cdc27 217232	-1.026204382	0.44369607	-1.065503369	0.287157246
Smc4 70099	-1.026239144	0.477461788	1.372784993	0.244803193
Ndufaf4 68493	-1.026321452	0.423279994	-1.191035221	0.052199678
D17Wsu104e 28106	-1.026437497	0.441355972	-1.159821313	0.177979161
2310011J03Rik 66374	-1.026541176	0.434817732	-1.026541176	0.434817732
Ndr3 29812	-1.026566503	0.397207721	-1.141852473	0.034289169
Ube2r2 67615	-1.026643987	0.418676382	-1.108901871	0.19818703
Tmbim4 68212	-1.02666324	0.39794231	1.04758481	0.285357953
Napg 108123	-1.02668644	0.438121195	1.055255559	0.365525882
4933409K07Rik 108816	-1.026719153	0.42747174	1.008409074	0.468922121
Slc39a11 69806	-1.026723203	0.454761319	1.066316319	0.387335525
Yipf3 28064	-1.026751057	0.413251007	-1.08168925	0.265198557
Mup2 17841	-1.026785767	0.487407397	1.389511645	0.345619417
Gspt1 14852	-1.026869703	0.414840272	-1.08802091	0.234258572
Eno1 13806	-1.027020217	0.424252597	1.028587052	0.395536234
Brca1 12189	-1.027042766	0.478344744	-1.395031364	0.267461448
Etf1 110842	-1.027077689	0.359973787	-1.062448047	0.20138294
Cep135 381644	-1.027095911	0.466334622	-1.121934465	0.348318824
Szt2 230676	-1.027100903	0.396530208	-1.037808597	0.306505645
Nup93 71805	-1.027179304	0.474419942	-1.620813531	0.047724049
Trim32 69807	-1.027185058	0.455365855	1.087624303	0.326449396
BC029722 613262	-1.027273295	0.418470156	-1.191576493	0.035126964
Fxc1 14356	-1.027421424	0.440497474	-1.032057058	0.422982447
Chordc1 66917	-1.027439432	0.42197946	-1.202888052	0.037427894
Fyb 23880	-1.027485813	0.438572325	-1.186059528	0.109370386
Strap 20901	-1.027498173	0.395372108	-1.027498173	0.395372108
Art4 109978	-1.027507105	0.457168927	-1.027507105	0.457168927
Nol6 230082	-1.02750789	0.36215875	1.008789691	0.454209061
Gm4787 214321	-1.027531427	0.489365619	3.3	0.173296754
Rtn3 20168	-1.027540144	0.392518941	-1.093399221	0.138350188
Tmem60 212090	-1.027627723	0.463768634	1.344520376	0.114338795

Daglb 231871	-1.027695165	0.436708814	-1.119693372	0.233090168
BC003266 80284	-1.027707912	0.407066028	1.10378487	0.139181588
Commd10 69456	-1.027756646	0.443558579	-1.195748993	0.13387159
Parl 381038	-1.027927955	0.426313642	-1.102394752	0.240779941
Lrsam1 227738	-1.027936709	0.445056682	-1.117729945	0.136759456
Mrpl10 107732	-1.027989394	0.382526196	1.047448558	0.234370294
Abcf1 224742	-1.028017707	0.358178866	1.017442879	0.400646284
Faah 14073	-1.028051532	0.236528035	-1.048984204	0.103224902
Nhej1 75570	-1.028106701	0.458239311	-1.223238202	0.216726869
Ugt2b36 231396	-1.028111988	0.398657958	1.032640664	0.376711409
Ubr5 70790	-1.028117747	0.453934588	1.187328402	0.178261958
0610007C21Rik 381629	-1.028119236	0.388334074	-1.103350028	0.078072435
Fzr1 56371	-1.028162442	0.414517172	-1.012182784	0.451598235
Lztr1 66863	-1.028172112	0.38624504	1.075430607	0.17914454
Cd163 93671	-1.028246195	0.444287845	-1.028246195	0.444287845
Prkcd 18753	-1.028319242	0.460574887	1.220118524	0.200448835
Hnrnpd 11991	-1.028353123	0.440492037	-1.027084359	0.412390044
Ech1 51798	-1.028360426	0.406985632	-1.028360426	0.406985632
Taz 66826	-1.028377606	0.439139882	-1.028377606	0.439139882
Bmp5 12160	-1.028391642	0.480059299	-1.195149504	0.36511007
Fggy 75578	-1.028543283	0.394110153	-1.087106477	0.189793574
Ptprs 19280	-1.028565448	0.456158438	-1.24885965	0.166571798
Fbxo18 50755	-1.028640152	0.423073501	-1.028640152	0.423073501
Rheb 19744	-1.028656633	0.439703183	1.063103913	0.373736081
Nans 94181	-1.02868178	0.447681659	-1.089530479	0.294539627
D630045J12Rik 330286	-1.028682357	0.443392598	-1.280994931	0.063760424
Zc3hc1 232679	-1.028686121	0.45047247	-1.028686121	0.45047247
Gatad1 67210	-1.028773581	0.377358114	1.08349187	0.081720442
Poldip3 73826	-1.028824953	0.375089552	-1.069927419	0.218837808
Kctd6 71393	-1.028925821	0.453294754	-1.333452714	0.073264846
Uap1 107652	-1.028945215	0.440586087	1.221911503	0.061336936
Fem1b 14155	-1.028969611	0.433589253	-1.149930553	0.191036166
Smarce1 57376	-1.028992349	0.430957801	-1.028992349	0.430957801
Sbno1 243272	-1.02906294	0.445088415	1.019899706	0.441550414
Alg8 381903	-1.029078225	0.468824571	-1.029078225	0.468824571
Park7 57320	-1.02909878	0.359270242	-1.077336795	0.143848136
Ccdc94 72886	-1.029110535	0.429680879	-1.041278477	0.37815575
Sumf1 58911	-1.029228495	0.41425627	1.04589258	0.362378386
Ppil6 73075	-1.029241268	0.483386241	-1.130783055	0.437947892
1110059E24Rik 66206	-1.029287774	0.417675944	-1.095469934	0.245498602
2510049J12Rik 70291	-1.029295826	0.413483732	1.118981281	0.136594799
E2f4 104394	-1.029308916	0.342014788	-1.008195411	0.434487176
Sash1 70097	-1.029328763	0.462819226	1.244504393	0.20660387
Fam32a 67922	-1.029470634	0.409754259	-1.085689165	0.268740152
Ctbp1 13016	-1.029483917	0.302446317	-1.029483917	0.302446317
Pomgnt1 68273	-1.02949225	0.43880995	-1.146732357	0.232547775
Glrx2 69367	-1.029574906	0.401881266	1.026509516	0.406180332
Scaf4 224432	-1.029715605	0.429875486	-1.13378879	0.219569212
Acin1 56215	-1.029744837	0.395349896	-1.091649242	0.190132445
Brwd1 93871	-1.029888329	0.42625158	-1.029888329	0.42625158
Txndc15 69672	-1.029950833	0.371364524	-1.029950833	0.371364524
Fbxo22 71999	-1.030048752	0.396163778	1.008577723	0.470238807
Ctif 269037	-1.030193732	0.443896172	1.078367033	0.362778109

Atp5c1 11949	-1.030248735	0.327055518	-1.109562491	0.025998168
Pik3r4 75669	-1.030288213	0.431369499	1.037188021	0.420672721
E130309D02Rik 231868	-1.030306016	0.403184013	1.01281308	0.45881409
Pvrl2 19294	-1.030307917	0.421499026	-1.134524073	0.185654757
Ssbp3 72475	-1.030376763	0.318346291	-1.024366853	0.268818982
Sgms1 208449	-1.030467653	0.409408464	1.128102721	0.102162544
Atp9a 11981	-1.030483296	0.346841074	-1.028826453	0.368773186
Mrps12 24030	-1.030498331	0.399508758	1.039067994	0.351812829
Tagln2 21346	-1.030500348	0.42379454	-1.046631773	0.330190776
Hexim1 192231	-1.030529299	0.358499796	-1.030529299	0.358499796
Socs3 12702	-1.030531467	0.455867643	-1.20227483	0.253910544
Pabpc1 18458	-1.030532193	0.397750459	-1.106681752	0.144849513
Atp5j2 57423	-1.030538464	0.440188403	-1.286345012	0.063577906
Dynlt1e 100040631	-1.030601934	0.477194093	1.400578006	0.274137403
Sp1 20683	-1.030657002	0.447616876	1.242219336	0.125344351
Pik3c2g 18705	-1.030711041	0.46456532	1.133099751	0.366688948
Polr3a 218832	-1.030722447	0.435467184	-1.030722447	0.435467184
Leo1 235497	-1.030806111	0.405081321	-1.028971963	0.370067864
Rc3h1 381305	-1.030881404	0.449871788	1.077239373	0.269580866
Elmod3 232089	-1.03096652	0.396227618	-1.03096652	0.396227618
Rnf103 22644	-1.030968052	0.420135681	1.14416333	0.130789751
Eif5b 226982	-1.031032049	0.410989411	1.025118939	0.425806112
Cox6c 12864	-1.031130309	0.408549394	-1.187884432	0.06058346
Afg3l2 69597	-1.031169104	0.35622769	1.010872446	0.444337535
Eftud2 20624	-1.031177591	0.384866983	1.034662185	0.358486083
Fam98b 68215	-1.031216094	0.461881709	-1.246642251	0.253488914
CommD5 66398	-1.031218842	0.41316252	-1.095535064	0.249663049
Qsox2 227638	-1.031276623	0.452185157	-1.364543504	0.05206433
Ccdc24 381546	-1.031328291	0.459286888	-1.289318515	0.185086587
H2-Gs10 436493	-1.031333957	0.432746462	1.203989993	0.070746718
Fam110a 73847	-1.031349502	0.423840782	-1.031349502	0.423840782
Ykt6 56418	-1.031359076	0.33556237	-1.082131655	0.08813628
Apon 28194	-1.031364675	0.389592114	1.016339329	0.417391142
BC028528 229600	-1.031366117	0.476289634	1.449077745	0.242466668
Rai2 24004	-1.031375268	0.439670832	1.224741387	0.086925157
Cirbp 12696	-1.031401097	0.433516308	-1.176491471	0.163331047
Rsrc1 66880	-1.031442245	0.432209599	1.049647617	0.388907555
Sys1 66460	-1.031569527	0.391742709	-1.031569527	0.391742709
Eif3i 54709	-1.031575349	0.415966893	-1.031575349	0.415966893
Spp2 75396	-1.031612347	0.433273062	-1.123395659	0.273910397
Sdr39u1 654795	-1.031801041	0.354902086	-1.079467697	0.177100703
Nfyc 18046	-1.031901842	0.412357395	-1.102758483	0.251607027
Wdr60 217935	-1.031907616	0.442645419	-1.178585953	0.166676266
Trim62 67525	-1.031991158	0.471110775	1.647507276	0.067905027
Gtf3c1 233863	-1.032044628	0.346646588	1.058714064	0.166115797
Rpl21 19933	-1.032064914	0.451798475	-1.069889491	0.365045843
F12 58992	-1.032131782	0.396781746	-1.006764939	0.47918088
Rnh1 107702	-1.032174387	0.356985522	-1.061352127	0.168422558
Tsen2 381802	-1.032224669	0.417190906	1.146142825	0.083681058
Mmd2 75104	-1.032237118	0.469221699	-1.403255836	0.126603282
Poc5 67463	-1.032246504	0.426070804	-1.007575961	0.472432146
Cldn12 64945	-1.032257102	0.417174761	1.094891158	0.207796711
Pex13 72129	-1.032259302	0.414934411	-1.159523332	0.108303212

Ciptm1 56457	-1.032323919	0.365870315	-1.139689895	0.050532825
Foxo4 54601	-1.03240499	0.402711091	-1.215079983	0.008440883
Zfp59 22717	-1.032477491	0.480042661	-2.250103451	0.074196186
Cdc42bpg 240505	-1.032509265	0.445301103	1.174417627	0.185318067
Mrto4 69902	-1.032572222	0.430210759	-1.032572222	0.430210759
Ankrd52 237615	-1.03261091	0.465604385	1.562110885	0.033367542
Chaf1b 110749	-1.032661041	0.44891603	-1.032661041	0.44891603
Vps4a 116733	-1.032723668	0.376977369	-1.091639474	0.192937718
Ermap 27028	-1.032844168	0.485591506	1.255130842	0.411829119
Klf13 50794	-1.032859046	0.42398048	-1.138467993	0.179139912
1810046J19Rik 103742	-1.032892715	0.405805449	-1.147862947	0.106093579
Slc2a5 56485	-1.032934804	0.448378275	1.292580073	0.082029291
Cpsf3l 71957	-1.032984801	0.436483008	-1.231232188	0.089548723
Gm13476 433424	-1.032990279	0.462579257	-1.207069162	0.2705832
Colec11 71693	-1.032994872	0.393430053	-1.032994872	0.393430053
Gm9104 668319	-1.03303445	0.448070492	-1.239578883	0.173425022
4932416H05Rik 654409	-1.033123609	0.465780041	1.556713611	0.045907999
Ctu1 233189	-1.033203099	0.417250736	1.072339796	0.278751227
Pgam2 56012	-1.03320711	0.483068245	-1.792828283	0.26550972
Ganab 14376	-1.033221528	0.320110122	-1.086388723	0.080077226
Arfgap3 66251	-1.033263689	0.42813902	1.118263353	0.209054156
Eps15l1 13859	-1.033267321	0.410061891	-1.125113056	0.198375394
Tada1 27878	-1.033333418	0.442222917	-1.033333418	0.442222917
Ralgds 19730	-1.033392714	0.445217465	-1.377807895	0.034211987
Wfs1 22393	-1.033413977	0.439276279	1.092577171	0.311099274
Commd2 52245	-1.033503895	0.417330114	1.148638288	0.135265782
Setx 269254	-1.033523246	0.468384732	1.303430422	0.259962272
Slc9a8 77031	-1.033529089	0.39978766	1.014008426	0.459523439
Lgals8 56048	-1.033565559	0.425793148	-1.002537207	0.491658606
Slc4a7 218756	-1.033571227	0.465943898	-1.166232585	0.259833607
Snta1 20648	-1.0335746	0.428820906	-1.0335746	0.428820906
Adi1 104923	-1.033645329	0.35255887	-1.140667146	0.027887787
Pold3 67967	-1.033667993	0.439052563	1.080021774	0.362658251
Ganc 76051	-1.033675934	0.441509817	1.056830472	0.399728134
Tmco4 77056	-1.033705157	0.418961688	-1.108919143	0.252408475
Incenp 16319	-1.033713232	0.468435205	-1.033713232	0.468435205
Myopop 232934	-1.033758733	0.463320737	1.107699885	0.398730526
Myst2 217127	-1.033794745	0.431934927	-1.302390314	0.032843744
Mapk6 50772	-1.033812425	0.44705298	-1.049545603	0.417135053
Mettl6 67011	-1.033888399	0.426487848	-1.033888399	0.426487848
Acad11 102632	-1.033891495	0.41317733	-1.033891495	0.41317733
Dap3 65111	-1.033896789	0.409130334	-1.186933598	0.02263735
Zfp85-rs1 22746	-1.033937977	0.480432216	1.730652546	0.230959098
F13b 14060	-1.034076081	0.443451151	-1.208418346	0.201310775
Rnf220 66743	-1.034108278	0.21959699	-1.034108278	0.21959699
Usp25 30940	-1.034116576	0.415117012	1.164523337	0.07064634
Eif5a 276770	-1.034159799	0.30389502	-1.065187654	0.075384489
Gtdc1 227835	-1.034186212	0.443347142	1.174399993	0.190838535
Elp4 77766	-1.034213303	0.43767221	-1.321693468	0.03219599
Ccnd3 12445	-1.034218769	0.377547236	-1.030791341	0.369794461
Apod 11815	-1.034233278	0.487300913	-5.725	0.078582895
Zfp296 63872	-1.034235253	0.464940268	-1.034235253	0.464940268
Tcap 21393	-1.034308472	0.487027443	-7.367	0.093227434

AY074887 246735	-1.034308472	0.487027443	-7.367	0.093227434
Ptgfrn 19221	-1.034312041	0.451578133	1.316171336	0.11029822
Foxn2 14236	-1.034326427	0.442879074	-1.237336904	0.152935146
Hebp1 15199	-1.034379683	0.328400884	-1.083544499	0.107833309
Lars 107045	-1.034406911	0.397045414	1.12577663	0.092401522
Gimap8 243374	-1.034433325	0.458377504	-1.235279674	0.208963534
Ogt 108155	-1.034441599	0.453239692	1.188772601	0.256218211
Tom1l2 216810	-1.034449532	0.418432258	-1.115336269	0.239891468
Tfb2m 15278	-1.034458973	0.434926695	-1.128865505	0.26886835
Pstk 214580	-1.034737319	0.462920059	-1.29543107	0.249631897
Apoc3 11814	-1.034754216	0.428841403	-1.157674172	0.17296076
Mccc1 72039	-1.034851648	0.400776372	-1.050196917	0.339770676
Psenen 66340	-1.03488043	0.447053634	-1.292621154	0.108612396
Psmc7 17463	-1.034943902	0.304686423	-1.034943902	0.304686423
Iscu 66383	-1.034948799	0.319983738	1.000260325	0.497895465
Tor3a 30935	-1.034950919	0.432620558	-1.034950919	0.432620558
Apc 11789	-1.035008765	0.460245324	1.276178094	0.210184642
Tmed8 382620	-1.035060775	0.468381487	-1.211325422	0.34829553
Mrm1 217038	-1.035087849	0.417243761	-1.21754985	0.072435025
Fundc2 67391	-1.035105566	0.45791422	-1.551751573	0.034183947
8430410K20Rik 78100	-1.035187235	0.454097342	1.125182087	0.323673503
Ankrd13a 68420	-1.035273956	0.378678053	1.098406393	0.111014056
Trp53bp2 209456	-1.035276121	0.455890083	1.027548831	0.463378488
Zfp689 71131	-1.035370773	0.445896519	-1.035370773	0.445896519
Tbk1 56480	-1.035384446	0.451547775	-1.029884636	0.451352422
A430033K04Rik 243308	-1.035447471	0.418565115	-1.229518772	0.074110668
Sft2d2 108735	-1.035470263	0.422855157	1.111896671	0.222775044
Cwc22 80744	-1.035472729	0.424886923	-1.035472729	0.424886923
Icmt 57295	-1.03547643	0.259772313	-1.03547643	0.259772313
Zfp295 114565	-1.035540152	0.402798438	-1.035540152	0.402798438
Decr1 67460	-1.035558256	0.373061318	-1.054143583	0.255723909
Slc38a4 69354	-1.035635855	0.338177799	-1.138759352	0.023537177
Cltc 67300	-1.035638004	0.415708622	1.139251041	0.167059407
4933407C03Rik 74440	-1.035653751	0.281270142	1.001910439	0.485512211
Ambra1 228361	-1.035713756	0.368410767	1.018970959	0.42616929
Mettl7a1 70152	-1.035742798	0.35363857	-1.036979049	0.307501213
Limd1 29806	-1.035803417	0.336408051	-1.09436102	0.114333754
Nr2f6 13864	-1.035873312	0.421988222	-1.132282189	0.221550938
Scarf1 380713	-1.035985302	0.44731296	-1.363296478	0.026239805
Nup62 18226	-1.036086556	0.409587972	-1.221911587	0.055659001
4933439F18Rik 66771	-1.036105589	0.388003176	-1.036105589	0.388003176
Kif1c 16562	-1.036146274	0.319394415	1.052836039	0.157144819
Poglut1 224143	-1.036155015	0.427318329	-1.036155015	0.427318329
Vps35 65114	-1.036163072	0.437824421	-1.043938526	0.413294483
Cbln3 56410	-1.036239186	0.443913214	-1.363979174	0.067129836
Cln3 12752	-1.0362963	0.378231945	-1.0362963	0.378231945
Plekhm2 69582	-1.036306308	0.40183178	-1.123885716	0.2038162
Nudt6 229228	-1.036345043	0.383973053	-1.040319102	0.340911986
Cnn3 71994	-1.03641205	0.341528198	-1.03641205	0.341528198
Mrpl42 67270	-1.036419635	0.359498839	-1.014906918	0.429294093
Zbtb17 22642	-1.036437722	0.372431331	1.08004259	0.195348218
Bnip3l 12177	-1.036453925	0.341692582	-1.137272746	0.045250219
Arsa 11883	-1.036468482	0.3778258	1.022311367	0.417201841

Gm6682 626534	-1.036491776	0.387085323	-1.197605076	0.02781523
Peli1 67245	-1.036508458	0.431407594	1.219850531	0.094917449
Fkbp3 30795	-1.036582015	0.39611416	1.03564612	0.387502056
Tmem183a 57439	-1.036690919	0.247984155	-1.036690919	0.247984155
Comt 12846	-1.036708037	0.401799511	-1.140628954	0.162740308
Marcks 17118	-1.036766031	0.444926446	-1.197589024	0.196774485
Ndufs6 407785	-1.036839926	0.400898565	-1.206522426	0.054410513
Arf4 11843	-1.036851678	0.361358359	-1.049612364	0.196681216
Iars 105148	-1.036875774	0.343159244	-1.08790974	0.150680466
Arhgef1 16801	-1.036876445	0.306342747	-1.036876445	0.306342747
Hps1 192236	-1.036906007	0.426266873	1.193526634	0.128247301
Slc25a5 11740	-1.03691393	0.292636525	1.005143826	0.462630445
Ubqln2 54609	-1.036986216	0.448406393	1.022295262	0.463761125
Snrk 20623	-1.036990922	0.403145433	1.142565455	0.098157898
Mxra7 67622	-1.036992129	0.38936925	-1.149063317	0.088643283
Clk1 12747	-1.037037428	0.451789178	-1.204073741	0.280828994
Polr3h 78929	-1.037092749	0.420385249	-1.271166688	0.051037576
Cyp4b1 13120	-1.03711031	0.385950816	-1.03711031	0.385950816
Ankhd1 108857	-1.037185656	0.399198134	-1.117112384	0.194565128
1110001J03Rik 66117	-1.037202605	0.422123274	-1.166624908	0.193550373
Casp7 12369	-1.037205762	0.443703473	-1.417754852	0.032484723
D8Erttd738e 101966	-1.037233243	0.425050731	-1.190617627	0.159391741
2410016O06Rik 71952	-1.037307419	0.430232396	-1.107499404	0.3146139
Bmp7 12162	-1.037353642	0.470195195	-1.876265586	0.068096032
Magoh 17149	-1.037372577	0.419986077	-1.057611548	0.350327696
Zfp668 244219	-1.037410572	0.402883467	-1.134276556	0.153399738
Ebpl 68177	-1.037439678	0.413593076	-1.267815788	0.015064959
Fam114a2 67726	-1.037471131	0.395987573	1.02230569	0.438999651
Hmgcl 15356	-1.037501298	0.330611344	-1.088219176	0.127929087
Clcf1 56708	-1.037557173	0.471992273	1.398956514	0.272131559
Ddx27 228889	-1.037561498	0.35255061	-1.037561498	0.35255061
2400001E08Rik 66508	-1.037648848	0.365283792	-1.169471143	0.033674974
Zcchc10 67966	-1.03764978	0.450187151	1.160138968	0.262560957
1110058L19Rik 68002	-1.037654607	0.41411375	1.058830116	0.348425241
Sp110 109032	-1.037673023	0.445687811	-1.384045367	0.013343461
Ube2l3 22195	-1.037684968	0.299682347	-1.037684968	0.299682347
Pla1a 85031	-1.037773017	0.328493214	-1.037773017	0.328493214
Abhd14a 68644	-1.037818941	0.416953075	-1.037818941	0.416953075
Eea1 216238	-1.037922431	0.468226042	1.145932609	0.347187261
Ttpal 76080	-1.03792416	0.445615467	-1.180174307	0.248186107
Zcchc24 71918	-1.038021267	0.315039031	1.052311856	0.174445364
Fga 14161	-1.038052227	0.365031053	-1.167198914	0.035643814
Hkdc1 216019	-1.038054744	0.480549365	1.823071741	0.250512967
Tirap 117149	-1.038055535	0.442969448	1.321557414	0.04112792
Fam126b 213056	-1.038096616	0.460593433	-1.11789748	0.365747286
Fam45a 67894	-1.038128648	0.445937842	-1.070535449	0.383025103
Dzip1l 72507	-1.038169681	0.478232479	1.673633937	0.250929993
Dnajc11 230935	-1.038187687	0.39543169	-1.216365293	0.038316959
Tfpi2 21789	-1.038208739	0.445409534	-1.227423014	0.227941586
Nrarp 67122	-1.038270982	0.466337622	-1.038270982	0.466337622
Vps33b 233405	-1.038274957	0.368413504	-1.136484538	0.068992616
Trim37 68729	-1.038286042	0.426323073	-1.000915722	0.497771365
Ubap2l 74383	-1.038323709	0.287008623	-1.079850831	0.113552953

Prkaa2 108079	-1.038421364	0.4098991	1.033900435	0.386802608
Lamtor2 83409	-1.038442003	0.381711809	-1.102363468	0.223949081
Unc79 217843	-1.03852125	0.463098288	1.244508221	0.301900802
Rrm1 20133	-1.038567649	0.451206525	-1.474855864	0.06451733
Nln 75805	-1.038569043	0.415416595	1.01973138	0.446601934
Lipe 16890	-1.03860856	0.370734388	-1.09657145	0.216489109
Napa 108124	-1.038621435	0.39131723	-1.110888558	0.226815272
Slc25a34 384071	-1.038676322	0.368593092	-1.038676322	0.368593092
Dolpp1 57170	-1.038709306	0.373166229	-1.013220457	0.458232349
Fam117a 215512	-1.038853463	0.438331983	-1.140303702	0.290715307
Gmeb2 229004	-1.038892653	0.383836128	-1.038892653	0.383836128
Sdf4 20318	-1.038977493	0.300239486	-1.093399003	0.053713827
Ly96 17087	-1.03898119	0.450570681	-1.115171141	0.328474869
Zfp629 320683	-1.039097057	0.405007207	-1.136225212	0.209958313
Ptov1 84113	-1.039117054	0.423940116	-1.196804023	0.162926182
Thrap3 230753	-1.039179809	0.296357611	-1.039179809	0.296357611
Rps2 16898	-1.039227669	0.393258552	-1.235094298	0.012223563
Mrpl36 94066	-1.039248525	0.392539261	-1.144618245	0.095120678
Serpina10 217847	-1.039261661	0.374004161	-1.039261661	0.374004161
Eif4b 75705	-1.039301057	0.307316586	-1.039301057	0.307316586
Arhgap23 58996	-1.039317065	0.434293442	-1.174680479	0.252053449
Ahcyl2 74340	-1.03938013	0.410414866	-1.03938013	0.410414866
Cd2bp2 70233	-1.039393538	0.306058566	1.046975189	0.178072623
Nmral1 67824	-1.039394809	0.453899848	-1.318926359	0.198017136
Bloc1s2 73689	-1.039459521	0.424894384	-1.248228201	0.069351873
A430078G23Rik 319493	-1.039552837	0.472758298	1.329963963	0.327491449
Zfp787 67109	-1.03960619	0.371481879	1.039941229	0.35081562
S100a11 20195	-1.039635506	0.446098127	-1.523432092	0.001883954
Vps52 224705	-1.0397033	0.276550711	-1.076619398	0.126727631
Chpt1 212862	-1.03970669	0.400999236	-1.037644834	0.364675583
Sugp1 70616	-1.039775503	0.36706737	1.007051714	0.471122659
Usp1 231915	-1.039814547	0.412375984	1.073153496	0.332670653
Zc3h7b 20286	-1.039821414	0.439656285	1.333046446	0.032025201
Cdk17 237459	-1.039897017	0.447782609	1.097793275	0.352681209
Fcf1 73736	-1.039965758	0.427595697	1.073738045	0.353464256
Tbrg4 21379	-1.040006762	0.324094358	-1.067106925	0.23537367
Omd 27047	-1.040022904	0.476207007	-1.457040245	0.28385737
Gja1 14609	-1.040082897	0.448924725	1.233826507	0.206653853
Disp2 214240	-1.040200234	0.471460787	1.144485906	0.409239478
Zfp361 12192	-1.04021046	0.444349493	-1.007857149	0.48754048
Nek6 59126	-1.040214254	0.248708075	-1.040214254	0.248708075
Epm2aip1 77781	-1.040320621	0.453710911	1.451510389	0.064572625
Serpinb6a 20719	-1.040365985	0.418305362	-1.155037377	0.228879479
Gm1987 100504362	-1.040425288	0.475116807	-1.053622661	0.465711755
Cops8 108679	-1.04051349	0.358451996	1.078261386	0.19113517
Polg2 50776	-1.040666688	0.458055008	-1.360316213	0.142470119
Pus3 67049	-1.040734906	0.462634528	1.025461064	0.473225512
Snap47 67826	-1.040803076	0.32380671	-1.092057894	0.131681287
Plekho2 102595	-1.040835504	0.393999984	-1.040835504	0.393999984
Xpo5 72322	-1.040837778	0.403055148	-1.154487876	0.176589969
O610010F05Rik 71675	-1.040840624	0.455531133	1.150179439	0.322701986
Dock7 67299	-1.040867001	0.460767293	-1.040867001	0.460767293
Fbxo33 70611	-1.040874679	0.42227191	-1.040874679	0.42227191

Lenep 57275	-1.040912642	0.465331461	-1.240958209	0.305043794
Fchsd2 207278	-1.04094762	0.433028516	-1.04094762	0.433028516
Cfb 14962	-1.041004499	0.367096634	-1.126682583	0.13352085
Ccdc86 108673	-1.041113956	0.42546583	1.087198162	0.31782694
Actg1 11465	-1.041138202	0.396727865	1.023726907	0.441636312
Hsdl1 72552	-1.041148429	0.335663859	-1.041148429	0.335663859
Papd5 214627	-1.041152272	0.444165424	1.127730382	0.279052594
Tprkb 69786	-1.041181604	0.338040921	-1.085258484	0.122265135
Tmem127 69470	-1.04119755	0.393115921	-1.04119755	0.393115921
Ccs 12460	-1.041298599	0.36449537	1.039110213	0.348818395
Etohd2 13996	-1.041327021	0.399263124	-1.120442118	0.2224415
Lamb3 16780	-1.04134686	0.440000917	1.170730015	0.2529146
Cotl1 72042	-1.041359471	0.397640079	-1.135131899	0.207778677
Kif14 381293	-1.041422578	0.481834526	-3.967316667	0.09324139
Arhgap8 73167	-1.041422578	0.481834526	-3.967316667	0.09324139
Lix1 66643	-1.041422578	0.481834526	-3.967316667	0.09324139
Gm1082 381868	-1.041422578	0.481834526	-3.967316667	0.09324139
Dock11 75974	-1.041422578	0.481834526	-3.967316667	0.09324139
Slc22a12 20521	-1.041422578	0.481834526	-3.967316667	0.09324139
Klhl8 246293	-1.041493961	0.452704406	1.243488774	0.243276926
Blvra 109778	-1.04156648	0.41840677	-1.04156648	0.41840677
Ltbp2 16997	-1.041602765	0.478288598	-2.217419325	0.174481199
Leng9 243813	-1.041618803	0.435245681	1.319071832	0.028616611
Sdr42e1 74032	-1.041666827	0.356367568	-1.178518643	0.032394987
Ankrd40 71452	-1.041682282	0.293495963	1.039058354	0.260300308
Bud31 231889	-1.041755171	0.412321077	-1.041755171	0.412321077
Serpina11 380780	-1.041789734	0.3943962	-1.041789734	0.3943962
Pex14 56273	-1.041816845	0.318980418	-1.079203587	0.201780762
Tcf3 21423	-1.041852297	0.382382866	-1.22501588	0.019782339
Zdhhc4 72881	-1.041852685	0.350925846	-1.041852685	0.350925846
Hnrnpc 15381	-1.04195009	0.26378533	-1.123294539	0.003828545
Dnajc25 72429	-1.042099551	0.325640774	-1.042099551	0.325640774
BC004004 80748	-1.042205338	0.382543998	-1.042205338	0.382543998
2210013O21Rik 70123	-1.042333886	0.470783876	-1.614328214	0.191328352
Gstm7 68312	-1.042354974	0.358943476	-1.042354974	0.358943476
Erc1 111173	-1.042376324	0.361674878	1.093195174	0.145125453
Ulk2 29869	-1.04241284	0.429110458	1.126479115	0.284774195
Ralgapa1 56784	-1.042416958	0.448904252	1.145154724	0.303751972
Dnajc10 66861	-1.042482967	0.421912727	-1.178668562	0.218197199
Eif4a3 192170	-1.042524618	0.367000013	1.020298791	0.433518908
Lmcd1 30937	-1.042577311	0.45578029	-1.042577311	0.45578029
2900053A13Rik 554362	-1.04258317	0.436091727	-1.065232008	0.331849242
Txnrd1 50493	-1.042652599	0.323326723	-1.089929489	0.158798898
Gga2 74105	-1.042703136	0.398968759	-1.042703136	0.398968759
Hnrnpa2b1 53379	-1.042767914	0.370461819	1.019041413	0.440515839
Ankrd44 329154	-1.04277258	0.459858691	-1.418708542	0.148421125
Dusp6 67603	-1.04277301	0.44015313	1.201675253	0.210137355
Efh2 27984	-1.042824379	0.327380633	1.016588073	0.415072381
Denr 68184	-1.042877302	0.398961304	1.051699555	0.374349183
Casp2 12366	-1.042889219	0.456352429	-1.23208918	0.31153902
Txn2 56551	-1.042952643	0.345955256	-1.095965356	0.200032966
8430410A17Rik 232210	-1.04296611	0.429210576	1.09660591	0.317560653
Aurkaip1 66077	-1.04301115	0.40537177	-1.043439182	0.403692047

Podn 242608	-1.043199459	0.415690057	-1.192520097	0.172596056
Tfe3 209446	-1.04320464	0.350464806	-1.022257176	0.404923174
Tacc1 320165	-1.043281496	0.37320371	-1.011256102	0.446624904
Stggalnac6 50935	-1.043319856	0.200653504	-1.015218948	0.371337147
Adrm1 56436	-1.043367171	0.381105873	1.054213028	0.305812043
Sdhaf2 66072	-1.043412887	0.357405215	1.015708695	0.445555194
Plekhhb2 226971	-1.04342648	0.415505277	-1.04342648	0.415505277
Cideb 12684	-1.043436092	0.338616606	-1.017420561	0.417185836
Ttc30b 72421	-1.04352939	0.458995145	-1.455419802	0.175078962
Thra 21833	-1.043536316	0.38508804	-1.043536316	0.38508804
BC026590 230234	-1.043622989	0.437062294	1.126595614	0.3263594
Grk5 14773	-1.043643881	0.419402071	1.208054304	0.120368248
Zfp609 214812	-1.043777107	0.388877807	1.090106494	0.194181632
Yif1a 68090	-1.043808069	0.33492302	-1.153648029	0.050965915
Naip2 17948	-1.043818649	0.414609218	-1.128964641	0.265040131
Fam151b 73942	-1.043860533	0.438849515	1.355302925	0.026369906
Tbrg1 21376	-1.043862979	0.408492818	-1.04316444	0.38642065
Gng12 14701	-1.043943235	0.35759638	1.003855823	0.486770694
Mdm2 17246	-1.044002944	0.390288544	-1.098778546	0.251338745
Agpat6 102247	-1.04402651	0.304164376	-1.096497424	0.126624185
Fam19a5 106014	-1.044173626	0.462609445	-1.479388449	0.203729018
Rwdd2b 53858	-1.044212747	0.429107579	-1.044212747	0.429107579
1700049G17Rik 73430	-1.04421307	0.480549249	2.037346527	0.18884387
Cpsf3 54451	-1.044301778	0.319651402	1.053526273	0.245474719
Syp 20977	-1.044474946	0.37714983	1.118075452	0.143416338
H2-DMb1 14999	-1.044622084	0.457245839	-1.69582472	0.0580612
Fam100a 207740	-1.044715268	0.389235668	-1.139543705	0.199027079
Pola1 18968	-1.044721325	0.4649635	-1.044721325	0.4649635
Gm7854 665934	-1.044733585	0.466850921	-1.044733585	0.466850921
H3f3b 15081	-1.044751161	0.328797893	-1.044751161	0.328797893
Steap2 74051	-1.04476489	0.459874784	1.40945721	0.18164137
Ring1 19763	-1.044784906	0.366746118	1.02668589	0.408004788
Slc25a20 57279	-1.044791132	0.326424907	-1.077330229	0.18038604
Rbpms2 71973	-1.044805924	0.212286546	-1.031195168	0.246851245
Al413582 106672	-1.044826842	0.434349269	1.101310605	0.360696559
Mlf2 30853	-1.044845155	0.37641904	-1.119211942	0.214522614
Inpp1 16329	-1.044955552	0.429548955	-1.245913359	0.172004165
Gyk 14933	-1.04497592	0.40444011	1.134938103	0.212571231
Map4k2 26412	-1.04505249	0.441787021	1.092617532	0.373989064
Cops6 26893	-1.045165809	0.372653785	-1.221775869	0.028861145
Ttc13 234875	-1.045167331	0.357923247	-1.08221565	0.26659977
Mfsd10 68294	-1.045240649	0.401126935	1.072261217	0.331285837
Megf8 269878	-1.045410753	0.373564657	1.038057369	0.372489125
Ppp5c 19060	-1.045411051	0.335161504	-1.096538137	0.178766486
Gab1 14388	-1.045458611	0.420738682	1.229991132	0.111463955
Calm3 12315	-1.045608305	0.209543312	1.018318956	0.299339315
Zer1 227693	-1.045632945	0.305797439	1.002028537	0.489774199
Phactr2 215789	-1.045647734	0.412176848	1.222263887	0.049550994
Tmprss2 50528	-1.045651863	0.435037008	1.310819349	0.094815049
Mcam 84004	-1.04565989	0.424169154	-1.18271621	0.153656451
Tcp11l1 320554	-1.045755036	0.4496925	-1.045755036	0.4496925
Cops5 26754	-1.045766424	0.382723957	-1.150152007	0.16230844
0610037P05Rik 66086	-1.045770708	0.421200837	-1.045770708	0.421200837

C1qtnf1 56745	-1.045805722	0.344442073	-1.039642453	0.179911495
Cd59a 12509	-1.04581047	0.283666021	-1.072371542	0.115267818
Lrrfip1 16978	-1.045815665	0.439592667	1.360682264	0.07307331
Ifitm5 73835	-1.045841336	0.479934407	-3.98415	0.093264411
Mtus1 102103	-1.045856758	0.378414222	1.058839689	0.317525162
A2ld1 223267	-1.045877261	0.385476536	1.060220263	0.331326281
Fam96b 68523	-1.045883217	0.371946525	-1.129811909	0.183898296
Unc5a 107448	-1.045890437	0.428066081	-1.12345979	0.335499458
Kdsr 70750	-1.04589867	0.399335049	-1.047594289	0.372579764
Creb3l3 208677	-1.045997091	0.329656905	-1.045997091	0.329656905
ORF61 216157	-1.046057639	0.325817371	-1.103295053	0.138484414
Yipf6 77929	-1.046078417	0.369653337	-1.008206906	0.470231869
2810046L04Rik 212127	-1.046108925	0.444387725	-1.046108925	0.444387725
Clcn6 26372	-1.0462166	0.470733845	-1.756698102	0.200157308
Sft2d1 106489	-1.046287256	0.368840569	-1.046287256	0.368840569
Rfxank 19727	-1.046341655	0.373858935	1.001890849	0.494721432
Csnk2a2 13000	-1.046345628	0.358975779	-1.046345628	0.358975779
Haus1 225745	-1.046536771	0.426263182	-1.192898952	0.243143137
Foxp4 74123	-1.04654601	0.386411794	-1.144352999	0.193927284
Gtf2f2 68705	-1.046567506	0.4103588	-1.201775021	0.162858441
Zfp445 235682	-1.04664561	0.419313181	-1.010627155	0.464344824
Ppp4r1 70351	-1.046706004	0.382989826	1.049959037	0.36418197
Arih2 23807	-1.046732074	0.308300705	-1.046732074	0.308300705
Mttr3 74302	-1.046732348	0.381990577	1.130018363	0.143351882
Hnf4a 15378	-1.046778663	0.296145918	-1.150493517	0.016797398
Acox2 93732	-1.046805989	0.379386285	1.104932607	0.196537701
Cdc16 69957	-1.046808854	0.374910814	-1.046808854	0.374910814
Hnrnpm 76936	-1.046833745	0.337724081	1.080163167	0.166094159
Glyat 107146	-1.04688363	0.306756435	1.012722489	0.43045322
Mmd 67468	-1.046950868	0.379543824	-1.163772813	0.128372184
Psme3 19192	-1.047219885	0.197248689	-1.072940919	0.103449622
5430416O09Rik 71406	-1.047247928	0.472067513	-1.290366661	0.346379627
Adprhl2 100206	-1.047252762	0.376172608	-1.2481755	0.017137048
Lsm14b 241846	-1.047350933	0.361664358	-1.047350933	0.361664358
Ccdc130 67736	-1.047364851	0.399143322	-1.133702779	0.232440768
Tceal1 237052	-1.047371519	0.475140161	1.973183884	0.200748856
Gon4l 76022	-1.047417406	0.399995646	-1.295465739	0.034405818
Hacl1 56794	-1.047425952	0.379828397	-1.047425952	0.379828397
Grhl3 230824	-1.047431906	0.483116311	1	#DIV/0!
Nat8l 269642	-1.047431906	0.483116311	1	#DIV/0!
Olfm2 244723	-1.047431906	0.483116311	1	#DIV/0!
Cpt1a 12894	-1.047466189	0.407491775	-1.143233074	0.23627006
Nat9 66176	-1.047546843	0.406634626	-1.047546843	0.406634626
Mrpl49 18120	-1.047564927	0.327279802	-1.11597021	0.132803081
Ehbp1l1 114601	-1.047595717	0.400569248	1.161743696	0.144950715
Surf4 20932	-1.047684572	0.24720069	-1.023090192	0.329260363
Litaf 56722	-1.047793202	0.311244274	-1.047793202	0.311244274
C1qtnf9 239126	-1.047871029	0.45896922	-1.973070551	0.009943005
Rexo1 66932	-1.047881383	0.285519329	-1.023041216	0.395325894
Morc2a 74522	-1.04796189	0.378748294	-1.234266915	0.022322643
Plekha1 101476	-1.048096768	0.447709279	1.309678177	0.1730362
Kif3a 16568	-1.048133049	0.359190301	-1.043053296	0.341387487
Cenpb 12616	-1.048145351	0.313689926	-1.048145351	0.313689926

Tom22 223696	-1.048162922	0.341700073	-1.048162922	0.341700073
Trabd 67976	-1.048197447	0.375988565	1.133092505	0.109546831
Slc17a4 319848	-1.048332685	0.391715994	1.180881357	0.052468563
6330408A02Rik 321008	-1.048338722	0.401102457	1.157744603	0.179182403
Tbc1d13 70296	-1.048442759	0.380007104	-1.017558629	0.430828496
Yme1l1 27377	-1.048496971	0.358138174	-1.09421783	0.250172772
Rps19bp1 66538	-1.048519858	0.402030649	-1.126428134	0.281680269
Abcc3 76408	-1.048567589	0.323030442	-1.13264995	0.075553075
Tmem119 231633	-1.048586525	0.464839336	1.75158346	0.127450781
Proc 19123	-1.048653288	0.395123703	-1.180270419	0.161967213
Grk6 26385	-1.048662333	0.329306906	1.030054882	0.363443069
Sgk3 170755	-1.048666233	0.426107516	1.124339648	0.226860117
Abhd15 67477	-1.048709405	0.370375923	-1.246409766	0.013226298
Kdelr2 66913	-1.048748102	0.334653763	-1.107299304	0.184878781
9030025P20Rik 100041574	-1.048809655	0.433268285	1.076505449	0.403841095
Itih2 16425	-1.048846134	0.34924424	1.002094055	0.493417534
Senp5 320213	-1.048888224	0.421483247	-1.224420913	0.195582912
Hsf4 26386	-1.048909189	0.403361364	-1.318174502	0.024380414
2410001C21Rik 66404	-1.048928464	0.322075261	-1.048928464	0.322075261
Msra 110265	-1.049006345	0.249462107	-1.049006345	0.249462107
Tusc2 80385	-1.049037737	0.227654931	-1.016563184	0.391453228
Dhx16 69192	-1.049142075	0.344696131	-1.198629618	0.032105189
Pttg1 30939	-1.049167847	0.355595133	-1.024122262	0.407365614
D19Wsu162e 226178	-1.049269415	0.317174844	-1.133567675	0.066016421
Cd5l 11801	-1.049270421	0.380267649	-1.191259713	0.085897617
Ppp1r1b 19049	-1.049351709	0.417034336	1.065280707	0.380111061
0610011F06Rik 68347	-1.049416882	0.373704315	-1.141533027	0.18652911
Cnih 12793	-1.049429949	0.377783148	-1.049429949	0.377783148
Hist1h1c 50708	-1.049475442	0.407959299	-1.193916256	0.191285336
Pja1 18744	-1.049506205	0.348456724	1.03644098	0.349883876
2610301G19Rik 219158	-1.049506526	0.349107103	-1.049506526	0.349107103
Ercc6 319955	-1.049513747	0.42791712	-1.049513747	0.42791712
Pgrmc2 70804	-1.049600186	0.333837438	-1.049600186	0.333837438
Sin3b 20467	-1.049624467	0.350007335	-1.12571554	0.170155975
Plau 18792	-1.049696284	0.470380931	-1.927200277	0.17672832
Bcmo1 63857	-1.049697332	0.372013753	-1.163683061	0.129791303
Csnk2a1 12995	-1.049715541	0.374862923	1.065705785	0.300429287
Dnajc21 78244	-1.049784216	0.397064415	-1.046958268	0.361295294
Lrrc25 211228	-1.049804534	0.444274362	1.324137311	0.127740125
Atp5a1 11946	-1.049958439	0.295095692	-1.098776629	0.133080825
Edc4 234699	-1.049962229	0.169322031	-1.049962229	0.169322031
2700060E02Rik 68045	-1.049994454	0.357033826	1.007944727	0.475434439
Vprbp 321006	-1.050022106	0.339073934	-1.040946233	0.311321331
Med22 20933	-1.050105604	0.29977736	-1.070503604	0.167117531
Mea1 17256	-1.05012375	0.34472675	1.028158676	0.399033077
Cyp2j5 13109	-1.050175049	0.274378421	-1.028529525	0.283140225
Asnsd1 70396	-1.050198529	0.325262693	-1.047513866	0.268233603
Galk2 69976	-1.050280526	0.368025185	-1.025436661	0.401491637
Itpkc 233011	-1.050303531	0.383064633	-1.166659129	0.163460691
Chd9 109151	-1.050307613	0.419875496	1.290337295	0.043688026
Kptn 70394	-1.050323476	0.415073148	-1.279039508	0.089628848
Taok2 381921	-1.050510615	0.341726475	-1.050510615	0.341726475
Arhgef17 207212	-1.050573941	0.418090763	1.031408935	0.452434412

Unc50 67387	-1.050640102	0.400493854	1.023972523	0.429926236
Aen 68048	-1.050829153	0.306564363	-1.081018591	0.232368596
Taf11 68776	-1.050833827	0.374341353	-1.261680857	0.023505352
Ccdc164 381738	-1.05091797	0.44123352	-1.051461491	0.402990633
Klhl4 237010	-1.050931864	0.471072676	-1.809413362	0.226028814
Sfxn5 94282	-1.05097524	0.275000296	1.001479659	0.491840729
Mospd3 68929	-1.051033155	0.424836832	-1.041035799	0.429093058
Rars2 109093	-1.051045429	0.415609187	-1.260555318	0.13036389
Casp6 12368	-1.051149515	0.40831673	-1.051149515	0.40831673
Trio 223435	-1.051154097	0.449246803	1.49349412	0.089919524
Mier1 71148	-1.051160922	0.374781586	-1.010469689	0.454854183
Grwd1 101612	-1.0512403	0.380671504	1.065437173	0.326385335
Atp5d 66043	-1.051291316	0.370738658	-1.236161909	0.049034081
Ctdspl 69274	-1.051329134	0.421110922	1.067777013	0.401514927
Tmem68 72098	-1.051355205	0.42268925	1.111985762	0.33489327
Dscr3 13185	-1.051388092	0.346616587	-1.147386108	0.115148639
Angptl6 70726	-1.051398972	0.386127133	1.054378878	0.37225659
Cdh2 12558	-1.051402298	0.339194552	1.038903743	0.34317536
Apof 103161	-1.051436088	0.203007067	-1.051436088	0.203007067
Tapbp 21356	-1.051549182	0.306229824	-1.143927017	0.031727128
Kcnq1 16535	-1.051591711	0.451797074	-1.874576599	0.007051356
Pah 18478	-1.051596207	0.385828722	1.051764205	0.379393778
Mrps14 64659	-1.051599894	0.303234915	-1.051599894	0.303234915
Dbnl 13169	-1.051667258	0.255696831	-1.051667258	0.255696831
N4bp2l1 100637	-1.051703238	0.3716129	1.014300537	0.461882748
6720456H20Rik 218989	-1.051716511	0.39424696	-1.051716511	0.39424696
Osgin2 209212	-1.051745845	0.456211913	1.129754906	0.387322132
2510039018Rik 77034	-1.051796443	0.303277137	-1.068461903	0.18566813
Gins3 78833	-1.051803454	0.470788619	-1.123868494	0.441486971
Asna1 56495	-1.051827523	0.378237035	-1.051827523	0.378237035
Esyt2 52635	-1.051930684	0.390431336	1.102085037	0.201946696
Xrcc5 22596	-1.051979331	0.297565576	-1.001251989	0.49450511
Erbp2ip 59079	-1.051984699	0.432591706	1.338556787	0.098610275
Yipf1 230584	-1.051998133	0.383854574	-1.202728962	0.101457076
2210012G02Rik 66526	-1.052116043	0.373196903	-1.068290707	0.275785091
Kpnb1 16211	-1.052123427	0.310168927	-1.102170003	0.162695008
Mkln1 27418	-1.052150755	0.384365921	1.027695865	0.438628181
Sri 109552	-1.052162413	0.330405157	-1.052162413	0.330405157
Hyou1 12282	-1.052208674	0.422310438	1.089065999	0.239463879
Islr 26968	-1.052283778	0.415873125	-1.038934284	0.40106454
Kpna4 16649	-1.052309139	0.395275457	1.203908201	0.058340452
Tmem5 216395	-1.052311819	0.415361513	-1.052311819	0.415361513
C1rl 232371	-1.052320508	0.310683062	-1.027750213	0.356336736
Rhbdf1 13650	-1.052397015	0.380055893	1.02190793	0.44990977
Plekho1 67220	-1.052429054	0.421007203	-1.133559974	0.223190582
Ttc17 74569	-1.05257098	0.345917996	-1.236561271	0.006781385
Nxt1 56488	-1.052774713	0.393343491	-1.012269361	0.460332679
Zbtb10 229055	-1.052803934	0.437885514	-1.218686057	0.252133213
Tmem37 170706	-1.052814829	0.404585581	-1.024194035	0.448860506
Zfp111 56707	-1.05284656	0.391721098	1.064201399	0.290613952
Brd1 223770	-1.052940184	0.421042231	1.025487958	0.461825812
Ddrgk1 77006	-1.05294113	0.380240753	-1.138198541	0.232354656
Tmem184c 234463	-1.053034731	0.437461522	-1.106345348	0.370532155

Nup98 269966	-1.053068565	0.374000776	-1.206037789	0.066693882
Smurf1 75788	-1.053104862	0.416850048	1.069437698	0.380870024
Clint1 216705	-1.053176768	0.407314114	1.101649302	0.313857981
Zcchc8 70650	-1.053220779	0.312018882	1.066827684	0.200965787
Wwox 80707	-1.053261621	0.397140949	-1.138096808	0.252460259
Med17 234959	-1.053267785	0.416626011	-1.053267785	0.416626011
Srsf2 20382	-1.053303477	0.350845634	1.018624988	0.439796836
Nipal3 74552	-1.05335474	0.423229778	1.294701911	0.09740734
Cerkl 228094	-1.053406502	0.454666428	-1.053406502	0.454666428
Gfm2 320806	-1.053410291	0.289231315	1.00421057	0.478634529
Gm6813 627939	-1.053433226	0.403327647	-1.190675385	0.207595511
Dub1 13531	-1.053527317	0.470697005	1.481669861	0.318085772
Usp35 244144	-1.053651236	0.431515671	-1.412295159	0.081534115
Fam125a 73711	-1.053732336	0.363011271	-1.009089272	0.471264925
Gm2a 14667	-1.053758784	0.353077893	-1.053758784	0.353077893
Mphosph8 75339	-1.053866453	0.450076515	1.255420717	0.295406679
Tspan33 232670	-1.053882996	0.394362397	-1.053882996	0.394362397
Pgm2 72157	-1.05388505	0.251609118	-1.144522849	0.022273229
Man2a1 17158	-1.053886917	0.259280425	-1.025469741	0.263445085
Larp4 207214	-1.05391149	0.402601257	1.070327449	0.258829034
Tmed4 103694	-1.053925528	0.32821288	-1.056122479	0.324121953
Ccdc85b 240514	-1.05393033	0.42623138	-1.05393033	0.42623138
D10Wsu52e 28088	-1.053957575	0.269914455	-1.078145881	0.204121228
1500011K16Rik 67885	-1.0539637	0.318279795	-1.109295963	0.164819465
Slc35a1 24060	-1.054017456	0.372804477	-1.260609471	0.043183685
Trp53rk 76367	-1.054098993	0.422982459	-1.030173418	0.453400109
Krt18 16668	-1.054107743	0.367530743	-1.14675816	0.191152444
1190003J15Rik 76974	-1.054132139	0.365601233	-1.133100994	0.216476555
Polr2i 69920	-1.054163548	0.383960738	-1.178726756	0.119187471
Cdkal1 68916	-1.054206678	0.418127996	-1.252738032	0.181111049
Pmvk 68603	-1.054233822	0.370296031	-1.080058343	0.27712045
Atg4c 242557	-1.054242939	0.386044684	-1.095347546	0.223929289
Mup5 17844	-1.054253062	0.413732448	-1.033103187	0.392919644
Mrpl12 56282	-1.054338763	0.359899523	-1.160323919	0.141669506
Lsm1 78304	-1.054405806	0.397102806	1.037639693	0.419253673
Ankrd35 213121	-1.054420727	0.476263483	-4.016833333	0.093227909
Rab40b 217371	-1.054420727	0.476263483	-4.016833333	0.093227909
Kpna6 16650	-1.054436362	0.361099075	-1.007272413	0.468593941
Dcps 69305	-1.054524158	0.364362406	-1.054524158	0.364362406
Prpf40a 56194	-1.05454556	0.434407542	1.21889119	0.240414953
Ltn1 78913	-1.054571528	0.378897665	1.062287971	0.346101589
Grb7 14786	-1.05462454	0.267252889	-1.05462454	0.267252889
Kdm5c 20591	-1.054631208	0.278115031	-1.054631208	0.278115031
Wdr46 57315	-1.054633662	0.35001008	1.074184011	0.27054121
Pzp 11287	-1.054664789	0.399484024	-1.366574851	0.01637783
Txn1 22166	-1.05467129	0.303444657	1.046630886	0.295941127
Tcf20 21411	-1.054701758	0.372050878	-1.007711374	0.474551575
Ptms 69202	-1.05472435	0.425921413	-1.157422394	0.20840897
Hcfc1r1 353502	-1.05473787	0.374419894	1.040442222	0.401935378
Uckl1 68556	-1.054742083	0.38509755	-1.127699034	0.215523779
Mal 17153	-1.05483	0.478341436	-2.8202	0.173296754
Snip1 76793	-1.054872749	0.3980532	1.030939519	0.439131775
Zfp691 195522	-1.054903229	0.376655925	-1.054903229	0.376655925

Bcl2l2 12050	-1.054925785	0.431326584	1.192196411	0.26333273
Aktip 14339	-1.055028211	0.406054624	-1.154580917	0.210612364
Gm5766 436332	-1.05505964	0.408870112	-1.05505964	0.408870112
5830416P10Rik 381232	-1.055094871	0.479210987	3.3	0.173296754
Tomm5 68512	-1.055103785	0.380056615	-1.055103785	0.380056615
Cox10 70383	-1.0551098	0.327255799	-1.138517089	0.088562089
Mrap 77037	-1.055119651	0.327975571	-1.110969824	0.20230112
Serpinc1 11905	-1.055128723	0.194195132	-1.096281627	0.043087258
Mgea5 76055	-1.055176333	0.396613278	1.053717095	0.38602698
Tnfaip8l2 69769	-1.055199081	0.425071413	1.08940732	0.36637518
Srpr 67398	-1.055218531	0.233317861	-1.007435361	0.450845864
Letm2 270035	-1.055243192	0.409938642	1.079052352	0.351259307
Pon1 18979	-1.055251296	0.32345142	1.012062298	0.456435385
Efr3b 668212	-1.055332313	0.47449419	1.150701957	0.450338304
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Tmem168 101118	-1.055487982	0.41662487	-1.303488639	0.11473491
St3gal4 20443	-1.055561453	0.272760925	-1.021727153	0.355795171
Scamp4 56214	-1.055583189	0.282576133	-1.070927415	0.175405399
Fam175a 70681	-1.055761876	0.428899488	-1.196302832	0.262683467
Ddx55 67848	-1.055766635	0.366151258	-1.07308869	0.269629398
Chst2 54371	-1.055804671	0.399676989	-1.11962433	0.207534161
Txndc11 106200	-1.055834923	0.393229927	-1.211840334	0.153095059
Icam4 78369	-1.055895156	0.480218211	1	#DIV/0!
Anxa11 11744	-1.055923349	0.303798841	1.005681015	0.475365629
Nrbf2 641340	-1.055926906	0.392911692	1.079927493	0.303193823
Tcte2 21646	-1.056007366	0.469443787	1.488232276	0.316376312
Pcbp2 18521	-1.056020171	0.280446937	1.016311763	0.30908079
Rbm26 74213	-1.056122887	0.446202226	1.395613884	0.136648334
Birc6 12211	-1.056131346	0.366472782	1.027724442	0.344710228
Bbox1 170442	-1.056280315	0.338540693	1.006213749	0.480010448
1810013D10Rik 66278	-1.056304571	0.360409019	-1.129523953	0.225041423
Abcf3 27406	-1.056330688	0.22323203	-1.056234472	0.153190563
Kras 16653	-1.056335916	0.352916402	1.048766015	0.345252305
Krba1 77827	-1.056337242	0.380502481	-1.056337242	0.380502481
C2cd2l 71764	-1.056372867	0.333923631	-1.072534692	0.198103366
Cd72 12517	-1.056501795	0.429791809	-1.229911766	0.220908441
Syvn1 74126	-1.056518339	0.392366016	-1.003283811	0.489952724
Dad1 13135	-1.056554555	0.355714259	1.046526315	0.36029988
Psen1 19164	-1.05659054	0.222070784	-1.104242853	0.072136553
Cul4a 99375	-1.056597178	0.384673451	1.157946379	0.166620669
Ngf 18049	-1.056619551	0.399722682	-1.056619551	0.399722682
Adarb2 94191	-1.056664549	0.47661978	1.428581492	0.383239861
Map3k7 26409	-1.056678679	0.373092414	-1.184935134	0.142991706
Tmem150a 232086	-1.056699515	0.305063062	-1.079139213	0.209184769
Fam199x 245622	-1.05670915	0.377831797	-1.09033212	0.276006234
Fam20a 208659	-1.056731807	0.354651661	-1.147758306	0.175003242
Naa16 66897	-1.056745632	0.412271738	-1.448718417	0.007327985
Deptor 97998	-1.056773398	0.388879829	1.035827728	0.350642887
Mob1b 68473	-1.056779997	0.43439072	1.125605746	0.270595644
Abhd5 67469	-1.05685726	0.281837939	-1.123215493	0.068524655
Smarcal1 54380	-1.056884855	0.403936999	1.037265385	0.376463016
Ilk 16202	-1.056895186	0.320645511	1.08232083	0.171145812

Ftsj3 56095	-1.056974367	0.314119572	1.017145827	0.426408249
Klraq1 73825	-1.056974707	0.369811057	-1.005580152	0.48765328
Gm8615 667410	-1.056982799	0.380330064	-1.097226642	0.268324326
Al317395 215929	-1.056994726	0.383607422	1.15035317	0.184949447
PrkcsH 19089	-1.057041727	0.337143856	-1.057041727	0.337143856
Endou 19011	-1.057057135	0.477310394	-8.121	0.046661899
Tmem159 233806	-1.057098552	0.360723975	-1.076739949	0.286473052
D4Ertd22e 213491	-1.05720539	0.277582415	-1.071948963	0.162054735
Map2k7 26400	-1.057223356	0.330153563	1.082901739	0.210533051
Tnfrsf11a 21934	-1.057225662	0.457811156	-1.761738237	0.129185532
Spry1 24063	-1.057258484	0.413396541	-1.206464284	0.240746615
Dpy30 66310	-1.05734868	0.371497074	1.05756507	0.354963042
Ubxn4 67812	-1.057403294	0.258649067	-1.007569725	0.461842415
Enpp4 224794	-1.057407304	0.44825232	1.186259146	0.298925108
Pex6 224824	-1.057523795	0.35411076	-1.205935454	0.042857708
Adrbk1 110355	-1.057528219	0.218308305	-1.096679019	0.101318511
Gm10767 100038538	-1.057607814	0.39370366	1.211785302	0.084079804
Slc7a1 11987	-1.057622589	0.458973409	1.890534483	0.069915791
Gdpd5 233552	-1.057685162	0.443507123	-1.200569815	0.317403676
Lhpp 76429	-1.057708372	0.324124219	1.028570746	0.378379421
Lpar5 381810	-1.057714028	0.467373956	-1.821090369	0.224432855
Lrrc16b 268747	-1.057714028	0.467373956	-1.821090369	0.224432855
1810074P20Rik 67490	-1.057741415	0.37827903	1.151649028	0.156252362
Tceb3 27224	-1.057749885	0.31658121	-1.118722347	0.155926487
Mcm4 17217	-1.057755473	0.441379359	1.16121803	0.355039293
Atg13 51897	-1.057784086	0.315103203	-1.122486653	0.140753288
Katnal1 231912	-1.057796941	0.427294884	-1.181662258	0.311445896
Meis2 17536	-1.057856076	0.42060554	-1.329690786	0.125440281
Arid3b 56380	-1.057894276	0.435231155	-1.443970963	0.106640904
Rnf170 77733	-1.057898698	0.43236928	-1.034950273	0.451469674
Ppp2r5a 226849	-1.057969992	0.339475277	1.039638735	0.364161668
Cflar 12633	-1.05802986	0.242382159	1.039999284	0.206315784
Afm 280662	-1.058041037	0.374448398	-1.160578517	0.168970102
Ranbp1 19385	-1.058078191	0.353085891	-1.129490655	0.219793147
Gm4952 240549	-1.05812561	0.375094354	-1.05812561	0.375094354
Rpl31 114641	-1.058209087	0.411982159	-1.280712635	0.14487834
Ankzf1 52231	-1.058232854	0.339231945	-1.058232854	0.339231945
Mll1 214162	-1.058249267	0.400748755	1.078908606	0.254331472
Rala 56044	-1.058261117	0.363618849	-1.074149395	0.304186859
Rer1 67830	-1.058315168	0.148654654	-1.081758289	0.084613657
Arap1 69710	-1.05834277	0.302271698	-1.123035074	0.118554223
Zscan29 99334	-1.058358128	0.377667765	-1.183434844	0.171759542
Pttg1ip 108705	-1.058628104	0.349991742	1.035034025	0.398307039
Errfi1 74155	-1.05871109	0.350141375	1.11785144	0.148562124
Cdk11b 12537	-1.0587124	0.252611239	-1.117411979	0.058903408
Slc39a13 68427	-1.058716562	0.283609919	-1.123406815	0.112706153
Ahr 11622	-1.058754013	0.437643653	1.474601542	0.06721011
Ubxn2a 217379	-1.058820606	0.346818665	1.019709759	0.44469135
Atg10 66795	-1.058866135	0.420785444	-1.058866135	0.420785444
Bptf 207165	-1.058957903	0.419781974	-1.099530844	0.337007635
Uox 22262	-1.058984766	0.266215468	-1.084458912	0.151583927
Erf 13875	-1.059036277	0.30277817	-1.059036277	0.30277817
BC020535 228788	-1.059045478	0.406468283	1.041875297	0.42965397

Mrpl45 67036	-1.059091077	0.324892468	-1.20670922	0.046274423
lk 24010	-1.059127076	0.32161168	-1.022497465	0.363484746
Tspan31 67125	-1.059142302	0.270732774	-1.123529054	0.094036092
Pat1 225929	-1.05914967	0.381044747	-1.188602591	0.125777445
Taok1 216965	-1.059162085	0.401882981	1.116149603	0.224402439
Als2cl 235633	-1.059196307	0.33868448	1.040177558	0.364237761
2700049A03Rik 76967	-1.059244155	0.46086859	1.185286783	0.400930459
Dstyk 213452	-1.05935437	0.368280384	1.153980378	0.08859516
Hand2 15111	-1.059358916	0.293928836	-1.059358916	0.293928836
Iars2 381314	-1.059492048	0.239139392	-1.158039297	0.016352731
Rnps1 19826	-1.059502483	0.30476788	-1.059502483	0.30476788
Il16 16170	-1.059513231	0.396902484	-1.120635701	0.310465202
Fam96a 68250	-1.059539587	0.236840719	-1.029116004	0.361797504
Fth1 14319	-1.059540012	0.29839925	-1.144034878	0.045444812
Ccdc50 67501	-1.059567938	0.390961526	1.199876333	0.113001539
Brap 72399	-1.05957712	0.292263955	-1.017030627	0.438335764
Ppp6r3 52036	-1.059634853	0.280783641	-1.059634853	0.280783641
Zfp167 382118	-1.059653338	0.469589216	1.216561098	0.370645645
Tfcp2 21422	-1.059656272	0.386509888	1.207749976	0.060082406
Letmd1 68614	-1.059661437	0.331332249	1.095706898	0.172064076
Tnfsf13b 24099	-1.059698432	0.468900983	-2.349388889	0.152090257
Klhdc4 234825	-1.05976361	0.379463858	-1.152785952	0.238761521
Cog2 76332	-1.059791078	0.359279099	1.118732692	0.195948506
Setd3 52690	-1.059906065	0.200656361	-1.117146658	0.026662636
Vps4b 20479	-1.059907979	0.389745302	-1.021564235	0.446876183
Bccip 66165	-1.060063381	0.249320005	-1.115886682	0.092570295
Gm13251 433791	-1.060091765	0.478912219	-2.76078	0.173296754
Crip3 114570	-1.060108391	0.468545088	1.859246314	0.224452502
1110038D17Rik 68778	-1.060124933	0.314362853	1.081596209	0.167607088
Lrrc20 216011	-1.060144427	0.430498083	-1.365029376	0.165279158
Cdo1 12583	-1.060172391	0.236554953	-1.107184142	0.104606008
Ubb 22187	-1.060271617	0.350792165	-1.118513878	0.248662911
Pard6b 58220	-1.060277195	0.420409689	-1.008977297	0.485398802
Hsf1 15499	-1.060323943	0.272933053	-1.043109217	0.305594034
2810408M09Rik 381406	-1.0603355	0.322492223	-1.112678022	0.200704982
Ap2a1 11771	-1.060336762	0.30154962	-1.063916692	0.230533076
Ptprk 19272	-1.060369935	0.369629731	-1.060369935	0.369629731
C2cd3 277939	-1.060373845	0.397170796	1.210130945	0.139077005
Clcc1 229725	-1.06040547	0.252029788	-1.06040547	0.252029788
Mlph 171531	-1.060406035	0.415652102	1.086420167	0.363787417
Fhl3 14201	-1.060417705	0.457101344	1.391127896	0.283048041
Gyg 27357	-1.060431027	0.421169853	-1.480378671	0.050405516
Gm527 217648	-1.060476119	0.465840342	-1.825845924	0.2234056
Slc39a7 14977	-1.060516489	0.307661418	1.016025677	0.437605532
Rrp1 18114	-1.060538787	0.328322582	-1.012047266	0.464075149
2700050L05Rik 214764	-1.060542108	0.369931421	-1.278956084	0.056597356
Lztf1 93730	-1.060545472	0.414563886	-1.060545472	0.414563886
Plekhm1 353047	-1.060563816	0.315608941	-1.212773676	0.020167887
Jagn1 67767	-1.060650181	0.286024358	1.001256516	0.494384066
Agxt2l2 72947	-1.060674742	0.274401713	-1.060674742	0.274401713
Tfdp1 21781	-1.060749602	0.413922107	-1.060749602	0.413922107
Gm5506 433182	-1.060755215	0.291229391	-1.039204357	0.315925838
Bivm 246229	-1.06082568	0.450247667	1.421271659	0.206216878

LOC100048884 100048884	-1.060837091	0.449059083	1.318251823	0.274662359
Ankrd13b 268445	-1.060864749	0.421255401	-1.36420822	0.115172095
Otub1 107260	-1.060901265	0.371636934	-1.060901265	0.371636934
Prpf8 192159	-1.060905767	0.138909123	-1.039031722	0.239078902
Tpp1 12751	-1.06092756	0.257095014	-1.145679097	0.020847763
Elmod2 244548	-1.06097693	0.415542672	-1.311046678	0.145426956
Pqbp1 54633	-1.060996331	0.270817876	-1.036959261	0.361758231
Xkr6 219149	-1.061009994	0.462433669	1.400397676	0.317642215
Axin1 12005	-1.061033851	0.194602585	-1.039334884	0.231585818
Vipr1 22354	-1.061096435	0.251939736	-1.017701094	0.419637419
Phf2 18676	-1.061107712	0.403870287	-1.005802143	0.489184589
Mrps6 121022	-1.061129468	0.391566384	-1.061129468	0.391566384
Adssl1 11565	-1.061130096	0.317698335	-1.061130096	0.317698335
Nlrp3 216799	-1.061134297	0.45695867	1.507589768	0.222833067
Lrrc3 237387	-1.061190601	0.191141009	-1.061190601	0.191141009
Ft3 14255	-1.061229715	0.466849126	-1.827587288	0.237280066
Dda1 66498	-1.061234741	0.194969446	-1.047155409	0.18031207
Crip1 12925	-1.061261667	0.447823571	-1.611788948	0.128549377
Uggt1 320011	-1.061285263	0.334871764	-1.061791392	0.298702989
Cecr5 214932	-1.061364156	0.248793769	-1.017247954	0.420130376
Mapk9 26420	-1.061392444	0.354129233	-1.257005456	0.050307203
Eif2c4 76850	-1.061405001	0.443394456	-1.362311823	0.246752633
Cggbp1 106143	-1.061428561	0.327342658	-1.061428561	0.327342658
Taf8 63856	-1.061433303	0.394893716	1.046417991	0.421895932
Stxbp2 20911	-1.061492739	0.278144334	-1.121647516	0.127389748
Sel1l3 231238	-1.061503144	0.386134981	-1.225698191	0.145449973
Pla2g16 225845	-1.061527772	0.358979748	1.048650362	0.372959989
Ccdc80 67896	-1.061551008	0.271722164	-1.139521914	0.063566993
Zfp414 328801	-1.0615571	0.37770558	-1.0615571	0.37770558
Fam100b 319370	-1.061604293	0.325384543	-1.058810981	0.355344198
Clp1 98985	-1.061667259	0.406892168	-1.061667259	0.406892168
Xrcc1 22594	-1.06169478	0.326674673	-1.06169478	0.326674673
Pitpnb 56305	-1.061709373	0.260667872	-1.061709373	0.260667872
5430411K18Rik 100502841	-1.061809943	0.434707409	-1.061809943	0.434707409
Mpp1 17524	-1.062001368	0.347606689	1.151920947	0.015984049
Fam120c 207375	-1.062060519	0.422132948	-1.30236472	0.194481755
Cplx2 12890	-1.062075914	0.312542954	-1.056600192	0.276764565
Tcf25 66855	-1.062140464	0.133162335	-1.044241672	0.137738637
Lama1 16772	-1.062148213	0.446476716	-1.27160003	0.276447384
Dgcr6 13353	-1.062228177	0.383415559	1.108977104	0.249650028
Cttn 13043	-1.062245267	0.320393939	-1.061690428	0.314700885
Sh3bp5l 79566	-1.062311276	0.299470001	-1.062311276	0.299470001
Hpn 15451	-1.062318287	0.243790967	-1.062318287	0.243790967
Las1 76130	-1.062329013	0.257946314	-1.111597723	0.132721039
Pdcd4 18569	-1.062379255	0.204602823	1.011130631	0.423168904
Slc29a1 63959	-1.062398251	0.305705808	-1.062398251	0.305705808
Ide 15925	-1.062451721	0.285949439	-1.062451721	0.285949439
Sfi1 78887	-1.062537804	0.347463042	1.034909003	0.391846455
Tmem38a 74166	-1.062587094	0.386205127	-1.164133345	0.220875401
Gm6907 628705	-1.062598948	0.45497877	1.087130534	0.426277191
Golt1a 68338	-1.062601457	0.327859462	-1.116661215	0.225343989
Arf1 11840	-1.062615567	0.253861925	-1.007405643	0.462420649
Scrn2 217140	-1.062741316	0.3730716	-1.200480545	0.155543982

Ablim1 226251	-1.062743628	0.331456688	1.011851584	0.462487372
Gcnt4 218476	-1.062756634	0.435192947	-1.062756634	0.435192947
Vps37a 52348	-1.062766945	0.434730863	1.106206276	0.349721482
Zfp207 22680	-1.062882187	0.391778954	-1.0361044	0.394455542
Ggps1 14593	-1.062920087	0.426251015	-1.234559858	0.235208288
Scrib 105782	-1.06294829	0.23900056	-1.123200008	0.049355127
Reep3 28193	-1.063078051	0.344126724	-1.165799011	0.150641952
Tk2 57813	-1.063120818	0.276137715	-1.145733619	0.029308682
Mrps18c 68735	-1.063133549	0.36240913	-1.122342192	0.258385137
Cwc27 67285	-1.06313845	0.345086921	-1.213774687	0.047699943
Slmap 83997	-1.063163395	0.420821162	1.368276479	0.050807732
Edf1 59022	-1.063173982	0.367691468	-1.177594569	0.184888364
Habp4 56541	-1.063206887	0.258560033	-1.063206887	0.258560033
Flnb 286940	-1.063224794	0.230347741	-1.049239403	0.230106648
Rprd2 75137	-1.063285071	0.36549758	-1.038420802	0.354550603
Mrps26 99045	-1.063291901	0.362372126	1.012755195	0.469701857
Gas2 14453	-1.063361268	0.384011667	-1.063361268	0.384011667
Rhbd12 230726	-1.06336538	0.38573672	-1.06336538	0.38573672
Dctn4 67665	-1.063377547	0.325720492	-1.081829116	0.2342399
Kif9 16578	-1.063469835	0.457069171	1.310268853	0.335902723
Nadsyn1 78914	-1.063491653	0.341514201	1.00659246	0.482822163
Tars2 71807	-1.063636979	0.328671818	1.024392126	0.415300335
Lta4h 16993	-1.063677291	0.343284256	1.09823069	0.195460637
Sdhc 66052	-1.063682826	0.153695037	-1.05696063	0.112014916
Arfgap2 77038	-1.06368566	0.160027951	-1.110566583	0.028381468
Cables2 252966	-1.063711576	0.355718327	-1.173067816	0.166937726
5133401N09Rik 75731	-1.063732054	0.362813862	-1.223439731	0.086732358
Gnl3l 237107	-1.063759476	0.39768614	1.086283068	0.287713458
Sec24a 77371	-1.063780728	0.392565707	1.232292523	0.083888827
Slu7 193116	-1.063808356	0.292536211	-1.020820289	0.430562588
Brms1l 52592	-1.063820762	0.430869188	1.4277651	0.085984859
Uba52 22186	-1.063867268	0.391291851	-1.221150439	0.185193243
BC053749 333193	-1.063907682	0.407512191	-1.248671116	0.204297273
Pepd 18624	-1.063975668	0.306954603	-1.063975668	0.306954603
Stxbp1 20910	-1.063997838	0.402604158	1.046495844	0.423655999
Dld 13382	-1.064049682	0.268158433	-1.104735464	0.163424368
Glce 93683	-1.064059356	0.398051413	1.10774016	0.317941828
Homer1 26556	-1.064162277	0.434760774	1.121579257	0.364669254
Cd38 12494	-1.064172777	0.224707936	-1.116394228	0.083521642
Zeb1 21417	-1.064190954	0.425208418	1.077864705	0.367603618
Ctf1 13019	-1.064209838	0.326565004	-1.090596458	0.203256832
Sorbs2 234214	-1.064234045	0.390147211	-1.064234045	0.390147211
Itga3 16400	-1.06427016	0.351816441	-1.06427016	0.351816441
Rab22a 19334	-1.06430954	0.304908981	-1.06430954	0.304908981
Adarb1 110532	-1.064323845	0.389313011	-1.185672052	0.195968316
Ccl6 20305	-1.064407301	0.359553814	1.064707307	0.29576868
Gnat1 14685	-1.064411458	0.407530987	-1.276189942	0.174278896
Cc2d1b 319965	-1.064492928	0.331934633	-1.018794248	0.451843984
Tbc1d2b 67016	-1.06453399	0.308145989	-1.06453399	0.308145989
Colec12 140792	-1.064593452	0.359654638	-1.119915903	0.205267336
Glyctk 235582	-1.064613708	0.091904485	-1.064613708	0.091904485
Rras 20130	-1.064628316	0.177111969	-1.097822998	0.079604431
Gnl2 230737	-1.064653665	0.334066647	-1.134371729	0.206424258

Maml2 270118	-1.064712418	0.42719873	-1.064712418	0.42719873
Btbd6 399566	-1.064726777	0.290722716	-1.135233639	0.101486242
Trim25 217069	-1.064766342	0.342651676	1.117870005	0.1586771
Gemin4 276919	-1.064767404	0.35298285	-1.13731407	0.214851347
Fbxo6 50762	-1.064775961	0.313813723	1.017222238	0.441069311
Dctn6 22428	-1.064904927	0.259604671	-1.011085967	0.452029495
Diexf 215193	-1.06496139	0.310458224	-1.06496139	0.310458224
Erlec1 66753	-1.065002406	0.364932411	1.043125384	0.403716627
Palm 18483	-1.065069586	0.439502421	1.098774323	0.380227946
Zrsr1 22183	-1.065101056	0.374666653	-1.118286952	0.294443011
2410015M20Rik 224904	-1.065222578	0.305015811	-1.111948112	0.104170848
Tmem38b 52076	-1.065290682	0.257376817	-1.144063832	0.0225482
Zfand2b 68818	-1.065335061	0.369126232	-1.199517245	0.162195824
Pigk 329777	-1.065348414	0.253816158	-1.007542667	0.464998159
Polr1a 20019	-1.065435124	0.300791338	1.001345663	0.495031816
Eps8l2 98845	-1.065445725	0.285018197	-1.016678133	0.416077453
Cpne8 66871	-1.065501737	0.417538656	-1.026943819	0.463499936
Uso1 56041	-1.065545256	0.328537704	1.020802608	0.431711007
Dnttip1 76233	-1.065616752	0.336143183	1.093128882	0.229492606
Ocr1 320634	-1.065637753	0.424779751	1.076478314	0.406737669
Arrb2 216869	-1.065663511	0.331517374	-1.013648248	0.465008522
Hax1 23897	-1.065740304	0.280164598	1.01009756	0.45545491
Cstb 13014	-1.065771362	0.343045432	-1.211373781	0.06780594
Gcap14 72972	-1.065820199	0.296074193	-1.112723189	0.105042085
Cep164 214552	-1.065821978	0.379300541	1.111968169	0.242868777
Sox13 20668	-1.065850689	0.328710368	-1.065850689	0.328710368
Stat3 20848	-1.065859175	0.243830074	-1.065859175	0.243830074
Ubc 22190	-1.06588766	0.37346771	-1.06588766	0.37346771
Mx2 17858	-1.065904698	0.417976796	-1.065904698	0.417976796
Tmem111 66087	-1.065962426	0.217479916	-1.051631603	0.172296827
Mrpl14 68463	-1.065963243	0.387906109	-1.134944235	0.194052354
Ptgs1 19224	-1.0659948	0.31715071	-1.0659948	0.31715071
Sypl 19027	-1.066073654	0.284554132	1.069106121	0.174033872
Tmem218 66279	-1.06607667	0.403189027	-1.067085755	0.315870351
Zc3h8 57432	-1.066101653	0.438196294	-1.717616038	0.070672082
Tle1 21885	-1.066135114	0.321464776	-1.066135114	0.321464776
Anapc1 17222	-1.066155837	0.301892611	-1.066155837	0.301892611
Anks1 224650	-1.066248774	0.361111924	-1.066248774	0.361111924
Slco2a1 24059	-1.066332138	0.350138981	-1.073627614	0.285930564
Ulk1 22241	-1.066373991	0.325541423	-1.02893772	0.358100269
Recq15 170472	-1.0663961	0.342977587	-1.076965941	0.281336103
C130074G19Rik 226777	-1.066404264	0.199644718	-1.01964486	0.381675526
Rit1 19769	-1.066410194	0.333165757	-1.066410194	0.333165757
4831440E17Rik 320965	-1.066429736	0.445738176	-1.497742744	0.208788028
Srp9 27058	-1.066456355	0.294644164	-1.171455803	0.052831759
Myzap 102371	-1.066473724	0.45442757	-1.795267073	0.153502328
Etfhdh 66841	-1.066505499	0.37260353	1.177150542	0.127843479
Serp1 28146	-1.066512716	0.348409929	-1.054011368	0.306202838
Zcchc17 619605	-1.066520059	0.327374448	-1.077894976	0.231203248
Esd 13885	-1.066575488	0.308353657	1.024672062	0.408711619
Dctn2 69654	-1.066579403	0.257162393	-1.098233894	0.191677431
Gcfc1 67367	-1.066655109	0.394331551	-1.216035127	0.216241936
Phf1 21652	-1.06665828	0.337782795	-1.282382071	0.012907382

Cdk5rap2 214444	-1.066704289	0.394253874	-1.037120726	0.41234903
Tec 21682	-1.066823865	0.330462422	-1.140142901	0.17462796
Trappc4 60409	-1.066835913	0.280583989	-1.134851992	0.125959215
Usp30 100756	-1.066844576	0.341166299	-1.283420665	0.020188741
E2f5 13559	-1.066875663	0.354531093	-1.066875663	0.354531093
AK010878 100233175	-1.066939802	0.294382995	-1.084970149	0.124909965
Rdh5 19682	-1.066943208	0.388494258	-1.294163732	0.087036484
Gltpd2 216871	-1.066978047	0.343674688	-1.163197614	0.177498193
Phpt1 75454	-1.066983048	0.352512781	-1.150048915	0.079990222
Ptpn12 19248	-1.066984041	0.444965098	-1.114804833	0.410602489
Arl6ip4 65105	-1.066988768	0.368413094	-1.177671308	0.206367418
G6pc3 68401	-1.066992557	0.30698694	-1.140011148	0.131272767
Mdfj 17240	-1.067021148	0.449237688	-1.067021148	0.449237688
Rnf126 70294	-1.067021419	0.313228713	1.009426328	0.467645758
Aadat 23923	-1.067121633	0.284566771	-1.1286167	0.128247726
C1ra 50909	-1.067172953	0.126807778	-1.067172953	0.126807778
Ndfip2 76273	-1.067173659	0.195212142	-1.067173659	0.195212142
2510003E04Rik 72320	-1.067203849	0.350506777	-1.067203849	0.350506777
Dexi 58239	-1.067216869	0.347264209	-1.191868779	0.129969119
Shank3 58234	-1.067223585	0.35235453	-1.203878591	0.119616676
Trnt1 70047	-1.067243958	0.404884913	-1.474987689	0.029298839
Kpna2 16647	-1.067253775	0.3659178	1.044752452	0.39152566
Mgat1 17308	-1.067274112	0.25979643	-1.05355955	0.255087258
Pear1 73182	-1.067275531	0.217956496	-1.062618306	0.197782023
Sergef 27414	-1.067342623	0.408294157	-1.05406157	0.399138385
Mapkapk5 17165	-1.067456433	0.301726179	1.086314329	0.155076331
Peli2 93834	-1.067510369	0.378955933	1.178377493	0.166289612
Fam84b 399603	-1.067521407	0.419001574	1.018395077	0.470346219
Nicn1 66257	-1.067640008	0.362341912	1.059788196	0.336717716
Dis3l 213550	-1.067687015	0.33848629	-1.177522296	0.14098774
E430025E21Rik 223593	-1.067692967	0.345156217	1.022727635	0.443853053
Lcat 16816	-1.067731732	0.288741662	-1.220356203	0.015478075
Yif1b 77254	-1.06783555	0.351631165	-1.090270117	0.254630146
Prrc2a 53761	-1.067837487	0.168169049	-1.067837487	0.168169049
Acadm 11364	-1.067851068	0.34015707	-1.067851068	0.34015707
Auh 11992	-1.067913336	0.24609568	-1.131513262	0.063889935
Eif2b1 209354	-1.06791361	0.313324232	-1.131699269	0.192359887
Phf19 74016	-1.067920409	0.451621845	-1.263536548	0.350430504
Ift52 245866	-1.067959236	0.310111043	-1.178146012	0.078156591
Btd 26363	-1.067969159	0.158820317	-1.153013849	0.00315476
Klhl7 52323	-1.067982568	0.403694455	-1.275225326	0.181465346
Sav1 64010	-1.068008135	0.408175508	1.265938244	0.161687291
Pm20d2 242377	-1.068053842	0.452423697	-1.101640999	0.415350534
Cops2 12848	-1.068080415	0.301003848	-1.221521954	0.035299663
Phf14 75725	-1.068207518	0.294703339	1.073317453	0.211022633
Anks6 75691	-1.068214984	0.454887509	-1.145341761	0.404553878
H2-Q10 15007	-1.068238273	0.297059728	-1.239960635	0.001986039
Tmem98 103743	-1.068264741	0.354807678	-1.21620946	0.109761258
Rfesd 218341	-1.068280592	0.417150295	-1.141106368	0.286854611
Git1 216963	-1.068337003	0.280929466	-1.003942467	0.481839198
Arl1 104303	-1.068379187	0.42934881	1.041242192	0.448606294
Zmym4 67785	-1.06840208	0.430474139	-1.06840208	0.430474139
Cdk16 18555	-1.068414346	0.282327441	-1.068414346	0.282327441

Ap1p2 11804	-1.068463245	0.242717653	-1.14133838	0.060006368
Ppp4r1l-ps 100043911	-1.068485592	0.381133627	1.179142718	0.181794119
Apbb2 11787	-1.068512324	0.357002758	1.002204883	0.49538661
Zfp87 170763	-1.068571756	0.430785193	-1.068571756	0.430785193
Casp8 12370	-1.068582439	0.300527637	1.016742911	0.439016456
Pih1d1 68845	-1.068713085	0.361616999	-1.064738297	0.336015195
Fam69a 67266	-1.068736586	0.332516193	-1.162936262	0.128793144
lfnar2 15976	-1.068751302	0.248386311	-1.137354591	0.053224116
Prkce 18754	-1.068835874	0.336038952	-1.068835874	0.336038952
Gp49a 14727	-1.068847892	0.421152553	-1.068847892	0.421152553
Mrps31 57312	-1.069194395	0.248413947	-1.031122433	0.254727723
Nup153 218210	-1.069197052	0.413519851	1.239258237	0.155178153
Rhbdd3 279766	-1.069206341	0.369456299	-1.3800991	0.004067878
Hus1 15574	-1.069284111	0.444229451	-1.277145337	0.289011056
Aptx 66408	-1.069408376	0.342235565	-1.069408376	0.342235565
2210404J11Rik 381062	-1.069515738	0.412985012	1.137710023	0.33080503
Eef2k 13631	-1.069630125	0.407147632	1.17689821	0.242881669
Aurka 20878	-1.069661502	0.418195082	-1.001078265	0.498569733
Cd3d 12500	-1.069723633	0.449672574	-1.069723633	0.449672574
Heyl 56198	-1.069736491	0.449166887	1.2299902	0.328866652
Usp1 230484	-1.069763463	0.41515579	-1.281592792	0.154280835
Mul1 68350	-1.06978764	0.214870311	-1.040563876	0.324283771
Plekhb1 27276	-1.069820167	0.346279771	-1.047965007	0.376325206
Hif1a 15251	-1.069883409	0.387251889	-1.214342149	0.213626066
Snx5 69178	-1.069946369	0.287375503	1.058512864	0.280521367
Pld1 18805	-1.070016823	0.454135391	-1.023441799	0.485499707
lpo13 230673	-1.070076037	0.299359327	-1.031431748	0.411197242
Idua 15932	-1.070135813	0.293055399	-1.168638716	0.081334528
P2rx7 18439	-1.070146537	0.361090496	1.026684817	0.445234834
Oat 18242	-1.070150561	0.408753381	-1.070150561	0.408753381
lpo4 75751	-1.070211095	0.243684562	-1.128333958	0.085720583
Arhgap24 231532	-1.070242319	0.375988608	-1.207147199	0.195178618
Thop1 50492	-1.070307035	0.336435059	-1.056934421	0.235382307
Sh3bp5 24056	-1.070315124	0.389550941	1.217292428	0.154308124
lpo9 226432	-1.070343877	0.260972246	1.067081456	0.097512646
Slc34a2 20531	-1.070479304	0.437276061	-1.258499518	0.282973751
Dolk 227697	-1.070492589	0.321629264	-1.070492589	0.321629264
Nrbp2 223649	-1.070656884	0.092031283	-1.07090979	0.058886369
Pfkl 18641	-1.070671919	0.338508403	-1.045341054	0.353295735
Capg 12332	-1.070702973	0.432314237	-1.158008145	0.261588295
Gimap1 16205	-1.070727323	0.356390946	-1.070727323	0.356390946
Ppp1r35 69871	-1.070736722	0.407035879	-1.070736722	0.407035879
Gfap 14580	-1.070767805	0.464464284	-1.966634453	0.201402532
Mrps22 64655	-1.070768162	0.308407956	-1.157235043	0.10691948
4933424B01Rik 71177	-1.070861612	0.357859898	1.06726755	0.305824504
0610011L14Rik 68295	-1.070908569	0.258487582	-1.020705782	0.422321341
Men1 17283	-1.07105803	0.259868678	-1.135661727	0.115372313
Nadk 192185	-1.071060925	0.26384902	1.059573717	0.204320471
D230025D16Rik 234678	-1.071110928	0.326942765	-1.053466004	0.267358367
Nfkb1a 18035	-1.071142096	0.330845616	1.067908331	0.250667111
Fancf 100040608	-1.071236149	0.421826896	-1.071236149	0.421826896
Ctsa 19025	-1.071422396	0.231979228	-1.116232623	0.132160756
Tmem50a 71817	-1.071448513	0.365667219	-1.173702477	0.104569132

H47 109815	-1.071519007	0.290247638	1.012210634	0.454701924
Sart3 53890	-1.071663365	0.335340436	-1.099379195	0.2278106
Ubr3 68795	-1.07167738	0.36027137	-1.012054653	0.469240704
Xpc 22591	-1.071694229	0.355797179	-1.148989055	0.191743763
Rnmt1 67390	-1.071735546	0.344399322	-1.038174189	0.396506134
Fmn1 14260	-1.071806008	0.438059497	1.23113892	0.326990727
Mrpl30 107734	-1.071936211	0.32686119	1.000159748	0.49956405
Rdbp 27632	-1.071954157	0.319182732	-1.002544677	0.491629201
Whsc2 24116	-1.071975869	0.383127873	-1.174626247	0.237686673
Slc38a6 625098	-1.072056396	0.346659963	-1.072056396	0.346659963
Armc5 233912	-1.072086785	0.283362971	-1.162605277	0.09044619
Pi4kb 107650	-1.072114623	0.301518441	-1.165496969	0.077669614
Pvrl1 58235	-1.072200418	0.088887211	-1.053595828	0.043130415
9430016H08Rik 68115	-1.072336184	0.261073188	-1.136322486	0.098060083
Tmem17 103765	-1.072359947	0.443023209	1.108702251	0.410869475
Ckb 12709	-1.072392384	0.423943646	-1.378368507	0.122809445
Dos 100503659	-1.072411819	0.371843224	-1.072411819	0.371843224
Ncbp2 68092	-1.072420064	0.304302146	-1.126241492	0.194179212
Hnrnpf 98758	-1.072472858	0.30427419	1.082512591	0.218278421
Kcnc3 16504	-1.072474512	0.259229504	-1.114857114	0.162160689
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Ccdc55 237859	-1.072759062	0.330176404	-1.1622734	0.180908939
Zmat5 67178	-1.072775999	0.364320957	1.117751187	0.181283466
Pgpep1 66522	-1.072776129	0.187323926	1.021786559	0.329770698
Ltbr 17000	-1.072798046	0.29639878	-1.15879397	0.092083382
Lzts2 226154	-1.072816865	0.311144282	1.003604736	0.488785148
Zyg11b 414872	-1.072820575	0.311126664	-1.081790852	0.134942509
Nt5m 103850	-1.072820846	0.397216453	-1.244295568	0.218869107
Unc45a 101869	-1.073139172	0.289433561	-1.164131581	0.103651189
Fbxl20 72194	-1.073266827	0.249300998	-1.002667691	0.487816217
Gnb2 14693	-1.07331654	0.33340704	-1.032138516	0.405175639
Slc22a7 108114	-1.07338744	0.346392806	-1.125549797	0.210983225
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Elovl2 54326	-1.073541075	0.355866638	1.047039465	0.398193915
Xylt2 217119	-1.073600011	0.225787006	-1.002931668	0.483386471
Ears2 67417	-1.073605286	0.357305007	-1.073605286	0.357305007
9430038I01Rik 77252	-1.073702973	0.397798807	-1.167552185	0.277547313
Nfib 18028	-1.073712417	0.268924038	1.010957719	0.451832202
Fam160b1 226252	-1.073780173	0.339296542	-1.073780173	0.339296542
Ppp2r5b 225849	-1.073852642	0.314550585	-1.132170018	0.153941477
Rwdd1 66521	-1.073886819	0.346638406	-1.073886819	0.346638406
Cdk5rap3 80280	-1.073890587	0.361971363	-1.005689177	0.488881543
Pmm2 54128	-1.073898202	0.25418568	-1.121159668	0.158658297
Ncln 103425	-1.073939278	0.27034551	-1.073939278	0.27034551
Mrps16 66242	-1.073942214	0.320167585	-1.073942214	0.320167585
Ctdsp1 227292	-1.073969233	0.279795655	-1.168500107	0.081222754
Anxa6 11749	-1.074007974	0.256837282	-1.148099419	0.094556374
Prkci 18759	-1.074023322	0.3942362	-1.105472011	0.334718389
Zmpste24 230709	-1.074137135	0.209113599	1.019212974	0.39313549
Hnrnpa3 229279	-1.074152428	0.214212912	-1.113504105	0.117771148
Maged1 94275	-1.074169127	0.227778592	-1.074169127	0.227778592
Mettl7b 71664	-1.074198026	0.361252558	-1.091766801	0.258144319
P2rx4 18438	-1.074259586	0.309116744	-1.225797926	0.019986468

Pigb 55981	-1.074302537	0.41254541	-1.14405374	0.33413305
Sf3b4 107701	-1.074309649	0.304693647	-1.074309649	0.304693647
Fbxo36 66153	-1.074397168	0.330464673	-1.303557346	0.017972039
Nipa2 93790	-1.074487533	0.404424868	-1.037170215	0.432670478
Ehd3 57440	-1.074504888	0.381948357	-1.011636037	0.47153785
Cpb2 56373	-1.07451869	0.260605779	-1.128039516	0.134894151
Gnmt 14711	-1.074661962	0.367884039	-1.390850566	0.019416365
Tmem110 69179	-1.074664568	0.333715984	-1.017151457	0.460054107
A530032D15Rik 381287	-1.07470019	0.467233076	-3.88109794	0.096090833
Tmod3 50875	-1.074863521	0.343036741	-1.074863521	0.343036741
Ppat 231327	-1.074871466	0.3506876	1.108137789	0.146520116
Pik3cd 18707	-1.075020049	0.354236505	-1.267554856	0.063734645
4931408A02Rik 70967	-1.075021836	0.444292296	1.047065153	0.467580986
Slc2a8 56017	-1.075137572	0.294275193	-1.046374989	0.378357553
Kdm4b 193796	-1.075262239	0.21326589	-1.10628405	0.144542057
Tpi1 21991	-1.075262335	0.235811913	-1.189216772	0.0307713
Npnt 114249	-1.075308235	0.451688564	1.018517157	0.482800486
Dpp4 13482	-1.075332099	0.255499484	-1.016257403	0.436098262
Tshz3 243931	-1.075374215	0.463807336	1.002806537	0.498817668
Fam53c 66306	-1.075432107	0.417350468	1.073112027	0.391637025
0610010K14Rik 104457	-1.075495003	0.304588651	-1.021223416	0.419761835
Alg3 208624	-1.075566887	0.311527532	-1.075566887	0.311527532
Pdzk1 59020	-1.07563969	0.242171782	-1.07563969	0.242171782
Sh3d19 27059	-1.07565622	0.335061246	1.14706076	0.08959885
Rassf7 66985	-1.075685473	0.242989291	-1.138115961	0.085436491
Sfxn1 14057	-1.07582686	0.061171461	-1.063104089	0.052183607
Srp68 217337	-1.075856505	0.251587007	1.057124888	0.20527949
Obfc2b 69917	-1.075926987	0.264948379	-1.075926987	0.264948379
Dhx30 72831	-1.075957797	0.29741249	1.006147296	0.48073829
Nudt5 53893	-1.075978101	0.377403257	-1.298705158	0.101586647
Fads6 328035	-1.075993101	0.3618539	1.070032899	0.354661388
Gpatch1 67471	-1.076064451	0.28358863	-1.076064451	0.28358863
Noc3l 57753	-1.076155021	0.267952247	-1.011280754	0.460291722
Tceb2 67673	-1.076174741	0.356889651	-1.076174741	0.356889651
Ikbkap 230233	-1.076222306	0.313333397	-1.197000597	0.06901806
Pex11a 18631	-1.076230541	0.39120832	1.251277539	0.136283106
Mettl1 17299	-1.076235652	0.365885386	-1.002284015	0.495765625
Arl5a 75423	-1.076305337	0.200528437	-1.039578723	0.326086671
BC027231 212547	-1.076306935	0.379254508	-1.243793833	0.118377047
Fam120a 218236	-1.076329545	0.352727332	1.004034222	0.490032508
Rnf185 193670	-1.076365238	0.212364119	-1.076365238	0.212364119
Arcn1 213827	-1.076394853	0.3514437	1.060013328	0.363400894
Tgtp2 100039796	-1.076556606	0.396678631	-1.346630785	0.071744788
Keap1 50868	-1.076581079	0.133830308	-1.110677681	0.063068398
Bcas3 192197	-1.076649425	0.228852009	-1.076649425	0.228852009
Ctss 13040	-1.076670508	0.327782812	-1.036772897	0.420916658
Nbeal2 235627	-1.076676305	0.400581657	1.136814873	0.241989793
1520402A15Rik 68075	-1.076716048	0.469823981	-2.8202	0.173296754
Fam54b 76824	-1.076735089	0.131643089	-1.076735089	0.131643089
B4galt2 53418	-1.076794679	0.464802687	1.061455911	0.478986093
Enoph1 67870	-1.076840469	0.410256856	-1.18256212	0.284769934
0610037L13Rik 74098	-1.077004642	0.324728725	-1.077004642	0.324728725
Tmco3 234076	-1.077055877	0.406887396	1.038649784	0.450730076

BC021614 225884	-1.077106617	0.404846728	-1.035823911	0.444066115
Lifr 16880	-1.077126748	0.296219978	-1.026801906	0.424957986
Anapc11 66156	-1.077195473	0.381214496	-1.327114127	0.086303052
Slc20a2 20516	-1.077218796	0.32433539	1.010511553	0.473778155
Plvap 84094	-1.077235529	0.207167539	-1.066267157	0.168339533
Lxn 17035	-1.077293126	0.458081413	1.00700148	0.495959403
Pitrm1 69617	-1.077324157	0.354069346	1.031601207	0.436775995
Ube4a 140630	-1.077383216	0.314720787	1.050729494	0.322355172
Man2a2 140481	-1.077433392	0.384582934	1.029061385	0.405851387
Dcp1b 319618	-1.077445128	0.410495508	-1.285653294	0.140427904
Chmp5 76959	-1.077524658	0.315810284	-1.072020196	0.318834605
Rad23a 19358	-1.077557104	0.280822296	1.000330678	0.498874317
Csk 12988	-1.07760483	0.163289078	-1.13626853	0.03069316
Iigp1 60440	-1.077715858	0.261237535	1.049233047	0.300063291
Lrfrn3 233067	-1.077719107	0.334286738	1.008665765	0.478617363
Klf15 66277	-1.07773313	0.255938258	-1.07773313	0.255938258
Ppp4r4 74521	-1.077772954	0.439686431	1.325653603	0.28688103
Epb4.111 13821	-1.07778595	0.386083206	-1.07778595	0.386083206
Sap30 60406	-1.07781735	0.391181185	1.061267229	0.401904008
Mre11a 17535	-1.077871286	0.368115783	1.047285771	0.416506358
Snape4 227644	-1.077919369	0.273193189	-1.015583958	0.449569079
Zfp27 22689	-1.077921014	0.378078112	-1.194699618	0.216298054
Kdelr1 68137	-1.077922546	0.212187487	-1.039991179	0.336849749
Bin3 57784	-1.077945402	0.260107415	-1.222399128	0.019846921
L3mbtl2 214669	-1.078140631	0.318912601	-1.297473476	0.01850696
Josd1 74158	-1.078246342	0.235421696	-1.027570672	0.391279987
Stx5a 56389	-1.078265	0.327788746	-1.165716105	0.193984335
Hip1r 29816	-1.078278069	0.344741354	-1.289362392	0.025224556
Pak4 70584	-1.078299624	0.252316051	-1.227544102	0.00400343
Slc25a25 227731	-1.078304181	0.382859089	-1.199885076	0.221136987
Pnpo 103711	-1.078306433	0.171828065	-1.032314309	0.329247283
Mreg 381269	-1.078342442	0.339108866	-1.036555666	0.425878506
Ugcg 22234	-1.078360574	0.367109003	1.070851617	0.367722559
Impact 16210	-1.078363515	0.399032861	-1.231133776	0.258234939
Rgp1 242406	-1.078472323	0.243933935	1.042987823	0.29870294
4930481A15Rik 74931	-1.078490223	0.295212611	-1.092924296	0.284806255
BC017643 217370	-1.078606412	0.344386887	-1.199053714	0.126982793
Nfrkb 235134	-1.078638007	0.349609236	1.050926761	0.370546784
Vps26b 69091	-1.078649318	0.337370725	-1.069081771	0.283194656
Sox17 20671	-1.078827434	0.453959937	-2.134697578	0.13622783
Acsf3 257633	-1.078899217	0.208213134	-1.146673231	0.033644698
Slc31a1 20529	-1.078908128	0.2336845	-1.078908128	0.2336845
Rbbp5 213464	-1.078921341	0.385493784	1.066334202	0.403206455
Usp24 329908	-1.078995881	0.11970591	-1.078995881	0.11970591
Dock1 330662	-1.079016041	0.405760476	1.017465012	0.461313034
Aif1 11629	-1.079030184	0.427897771	-1.709579765	0.042093515
D5Erttd579e 320661	-1.079068685	0.358907459	-1.079068685	0.358907459
Ier3ip1 66191	-1.079104909	0.30542353	-1.003893265	0.489528117
Mtap 66902	-1.079229919	0.298619447	1.086487072	0.214236755
Kng2 385643	-1.079235988	0.37117417	-1.456790262	0.006226903
Hnrnp1 59013	-1.079238591	0.390485402	1.042526509	0.435265857
Dnlz 52838	-1.079295648	0.239694476	1.000661652	0.496539698
C630004H02Rik 217310	-1.079307596	0.422876931	-1.59995082	0.071262155

Cndp2 66054	-1.079374281	0.237648623	-1.090657694	0.085855277
Tmem106b 71900	-1.079382048	0.342729046	1.164703589	0.083959654
Rapgef1 268480	-1.079383975	0.433925966	-1.925811615	0.040327091
Tnfrsf1a 21937	-1.079401717	0.221411073	-1.197211657	0.022909174
Spcs3 76687	-1.079460063	0.30236896	-1.193969217	0.098087223
Plekhf1 72287	-1.079542942	0.408734213	-1.443427494	0.104461532
Proca1 216974	-1.079554237	0.419390298	1.281115753	0.211157723
Tspan8 216350	-1.079558923	0.434510776	1.061079825	0.455192656
Hist1h2ah 319168	-1.079572729	0.410650695	1.088250046	0.407134578
Prkaca 18747	-1.07958816	0.193909297	-1.084802338	0.134883582
Plip 67801	-1.079704481	0.191521059	-1.01895868	0.39545319
Herc1 235439	-1.079861873	0.394998328	1.037204428	0.426966906
Sec61a1 53421	-1.079863312	0.303173596	-1.16946608	0.150683586
Opa3 403187	-1.079917809	0.335618791	1.033108785	0.422719031
Rtn4ip1 170728	-1.079922956	0.290674537	1.103758939	0.08237023
Apoa5 66113	-1.080011613	0.312203401	-1.080011613	0.312203401
Rcn3 52377	-1.080015788	0.402014545	-1.161703935	0.23093227
Arhgdia 192662	-1.080021199	0.23516021	-1.04477927	0.344327317
Ddx49 234374	-1.080053083	0.271884167	1.002110803	0.492404854
Sfr1 67788	-1.08014532	0.337791765	1.011133891	0.476167842
Trappc5 66682	-1.080164276	0.251999206	-1.130596339	0.158880924
Plekha5 109135	-1.080197781	0.383299681	1.244735028	0.128307553
Opa1 74143	-1.080234836	0.342362791	1.028689475	0.388749496
Trmu 72026	-1.080249697	0.382670114	-1.296296254	0.14841193
Gtf2i 14886	-1.080312466	0.144394281	-1.093468761	0.01669769
Ctxn1 330695	-1.080334666	0.452982175	-1.057297582	0.464839941
Arap3 106952	-1.080345476	0.242923374	1.032996933	0.338589743
Catsper2 212670	-1.080388057	0.381686995	1.06082889	0.394139241
Zbtb2 381990	-1.080509791	0.334915806	1.119586293	0.212997045
Snx13 217463	-1.08059149	0.348631714	-1.032676481	0.419079888
Nubp2 26426	-1.080625296	0.153939083	-1.080625296	0.153939083
Atp5b 11947	-1.08067395	0.112192705	-1.157007959	0.005354957
Ptplb 70757	-1.080793063	0.296360519	-1.186865353	0.108126063
Ptprg 19270	-1.080816625	0.358222633	1.049784662	0.405482057
Fam136a 66488	-1.08086386	0.343627805	1.159439515	0.129015551
Cnnm3 94218	-1.080872645	0.262321885	-1.157360878	0.115246202
Ccdc23 69216	-1.08102341	0.337473835	-1.238564395	0.102528924
Ccdc59 52713	-1.081056815	0.285304708	1.008253918	0.470186275
Ube2o 217342	-1.08110676	0.298481672	-1.08110676	0.298481672
Akr1b7 11997	-1.081175266	0.435998827	-1.088491797	0.418275187
Zfp839 72805	-1.081216156	0.227337291	-1.01654246	0.429601837
Slc12a4 20498	-1.08125218	0.286868238	-1.25731316	0.023593623
Fam134c 67998	-1.081286116	0.131636089	-1.081286116	0.131636089
Mpdu1 24070	-1.081428571	0.279221797	-1.081428571	0.279221797
Gtf2ird1 57080	-1.081437968	0.310089511	-1.081437968	0.310089511
Ii4ra 16190	-1.081448358	0.175413825	-1.137583358	0.036734623
Snrnp70 20637	-1.081475774	0.307741207	-1.081475774	0.307741207
Kidins220 77480	-1.081486917	0.3189613	-1.081486917	0.3189613
Actr2 66713	-1.081545369	0.291437858	1.029242676	0.393703466
Fto 26383	-1.081561723	0.282041891	-1.081561723	0.282041891
Tm4sf1 17112	-1.081649464	0.354522266	-1.190489237	0.185110031
Adprh 11544	-1.081729581	0.319476212	1.114023431	0.189244749
Chrac1 93696	-1.081782625	0.234389774	-1.081782625	0.234389774

Bloc1s3 232946	-1.081803438	0.360362573	-1.081803438	0.360362573
Scarb1 20778	-1.081808186	0.214546862	-1.041424329	0.279948927
Adora1 11539	-1.081836873	0.305501929	-1.072675431	0.297341105
Tfpt 69714	-1.081945515	0.311775	-1.281023153	0.026840731
Zfp764 233893	-1.082071253	0.394007973	-1.104343674	0.274690718
Trim2 80890	-1.082087525	0.414736511	1.178691013	0.322955699
Pole 18973	-1.08223087	0.416755144	1.112824819	0.394912474
Epha1 13835	-1.08227193	0.244225207	-1.218651524	0.027796728
Deb1 26901	-1.082313163	0.332191534	-1.082313163	0.332191534
Ppm1g 14208	-1.082328293	0.238223294	-1.13046363	0.150180518
2310035C23Rik 227446	-1.082369743	0.368581718	-1.207726632	0.226733592
2810021J22Rik 69944	-1.082411263	0.42965291	-1.082411263	0.42965291
Rhou 69581	-1.082433266	0.307155779	-1.178649234	0.151526004
Cdc42ep2 104252	-1.082436828	0.372110266	-1.284467102	0.140215507
BC003331 226499	-1.082464202	0.27608055	-1.02779826	0.420897708
Tnip2 231130	-1.082465771	0.399206314	1.063616692	0.42563155
Atg5 11793	-1.082482458	0.174453175	-1.082482458	0.174453175
Fibp 58249	-1.082516644	0.316739913	-1.028296085	0.394953781
Apobr 171504	-1.082557087	0.319235835	1.101074049	0.231085602
Dqx1 93838	-1.082624009	0.226431739	-1.170327863	0.044310974
Uba7 74153	-1.082724286	0.31452788	-1.017259873	0.460368584
Ccdc104 216618	-1.082725521	0.357076464	1.056403885	0.373360914
Uba5 66663	-1.082736398	0.33501745	-1.166413282	0.198004502
Srek1 218543	-1.082747524	0.287008161	-1.082747524	0.287008161
Kcnj8 16523	-1.082767932	0.403148988	1.060238463	0.433359256
Sec13 110379	-1.082820985	0.241021835	1.045809896	0.2897558
Pura 19290	-1.08290501	0.332704286	-1.196813996	0.170012668
Mir1895 100316832	-1.083012072	0.449045492	1.745770261	0.163534591
Trim7 94089	-1.083048609	0.335654064	-1.172513873	0.18806829
Nme6 54369	-1.083057891	0.368766594	1.19183052	0.180471439
Mrpl52 68836	-1.083060948	0.383160493	-1.348574254	0.105058156
Whamm 434204	-1.083178198	0.230677995	-1.222741663	0.012977541
Srprb 20818	-1.083258719	0.327028332	1.036037467	0.411261452
Acot9 56360	-1.083278059	0.450777208	1.601926307	0.243606372
Adh5 11532	-1.083285215	0.179102723	-1.133204803	0.061065396
1300001I01Rik 74148	-1.083332645	0.052145545	-1.089407727	0.012780007
Stbd1 52331	-1.083382194	0.220469989	-1.1470298	0.069924
Gtf2h5 66467	-1.083545079	0.266314463	-1.219045199	0.03035603
Bola3 78653	-1.083549292	0.18007787	-1.124453118	0.101892674
Fam83f 213956	-1.083588804	0.435909268	-1.083588804	0.435909268
Rbm41 237073	-1.083652867	0.450503588	-1.197779736	0.394899452
Gm1821 218963	-1.083686007	0.292803196	-1.175748048	0.102917726
Itih1 16424	-1.083877361	0.263695414	-1.097978922	0.185184352
Camta1 100072	-1.083886854	0.392381992	-1.358832471	0.134854897
Pdhhb 68263	-1.083933845	0.291113754	1.104164994	0.094555023
Vamp2 22318	-1.083967595	0.26489602	-1.11456947	0.111143879
Fcho2 218503	-1.084115578	0.423320278	1.338966517	0.197701065
Preb 50907	-1.084174556	0.078885169	-1.084174556	0.078885169
Zfp503 218820	-1.084195784	0.447004179	-1.991464949	0.134641892
Ddx47 67755	-1.084257279	0.135073636	-1.112401701	0.080222298
Rasa2 114713	-1.084294821	0.407017783	-1.084294821	0.407017783
Gch1 14528	-1.084381598	0.232795913	-1.020434301	0.421792368
Csrp2bp 228714	-1.084454511	0.263565095	-1.084454511	0.263565095

Sephs1 109079	-1.084456441	0.158849342	-1.152504107	0.020460655
Phrf1 101471	-1.08449141	0.265414822	1.011030541	0.452081628
Tmem56 99887	-1.084505063	0.373005409	1.138731381	0.237367924
Rmnd5b 66089	-1.084569879	0.252222632	-1.169944839	0.089828203
BC048403 270802	-1.08469983	0.436099976	1.489283152	0.177167238
Parp9 80285	-1.08473127	0.273677356	-1.024956451	0.428776385
Dapk3 13144	-1.084756603	0.306511754	-1.169305231	0.148947195
Glyr1 74022	-1.084812155	0.236614072	-1.007997556	0.451422224
Ewsr1 14030	-1.084825067	0.132905033	-1.11891253	0.072092657
Prkacb 18749	-1.084827427	0.325659974	-1.169841329	0.207834444
Dazap2 23994	-1.084872373	0.293396031	1.018240577	0.443481693
2900005J15Rik 67261	-1.08490679	0.343720207	-1.044721593	0.419680809
Ephb4 13846	-1.084923381	0.199467793	-1.011793913	0.430796068
Phlda1 21664	-1.084929023	0.343225075	-1.084929023	0.343225075
Minpp1 17330	-1.084930368	0.151880156	-1.084930368	0.151880156
Ctnnal1 54366	-1.084939991	0.421916064	-1.084939991	0.421916064
Prrc1 73137	-1.084962347	0.165702656	-1.022271256	0.356396171
Tlr1 21897	-1.084984844	0.446254984	-1.575659799	0.257144871
Cxcl11 56066	-1.08508646	0.45846401	2.218072465	0.163883125
Cd99l2 171486	-1.08518152	0.310417939	-1.178829942	0.135829469
Gstm4 14865	-1.085223229	0.229685383	-1.149009685	0.08536234
F630110N24Rik 73822	-1.085230986	0.438052971	-1.085230986	0.438052971
Ypel5 383295	-1.085261955	0.270315683	-1.033142026	0.337832858
Mapk1ip1 218975	-1.085344796	0.394474521	1.118338927	0.279018681
Lrrc32 434215	-1.085347249	0.265143261	-1.009398839	0.46707395
Cyc1 66445	-1.085364414	0.114646803	-1.085364414	0.114646803
Asb6 72323	-1.085408166	0.247556868	-1.085408166	0.247556868
Cep152 99100	-1.085470851	0.373694903	1.102314841	0.281562964
Pias1 56469	-1.085505731	0.29643824	1.081212403	0.24670558
Svip 75744	-1.085550301	0.369110802	-1.318367062	0.104776133
Txndc17 52700	-1.085559295	0.289331669	-1.274241694	0.028370514
Pi4ka 224020	-1.085584619	0.227862709	-1.085584619	0.227862709
Fbxo25 66822	-1.085587301	0.37376688	-1.000880293	0.498735624
Arl8b 67166	-1.085649848	0.22037192	-1.085649848	0.22037192
Arpc2 76709	-1.085687163	0.030023326	-1.0693836	0.06199197
Hnrnpul2 68693	-1.085744366	0.229727102	1.049813221	0.224967262
Fhl1 14199	-1.085833606	0.416157335	1.472526368	0.083750399
Exoc3 211446	-1.085844808	0.279477235	-1.184860556	0.06742039
Prpf31 68988	-1.085953064	0.323633728	1.015764287	0.460092106
Znrf1 170737	-1.085984176	0.314761665	-1.33209959	0.012117663
Uxs1 67883	-1.085989979	0.38148257	-1.148189209	0.254108995
Tle4 21888	-1.086012985	0.370118307	1.228425618	0.123050274
Paip2b 232164	-1.086033414	0.3405637	-1.204415702	0.146123041
Gkap1 56278	-1.086036979	0.35346107	-1.086036979	0.35346107
Nsmce2 68501	-1.086049779	0.30282502	-1.22111177	0.08231741
Prune 229589	-1.086097578	0.300651802	-1.055194194	0.316081133
Tmf1 232286	-1.086129615	0.399407985	-1.182763222	0.261217555
Ptpn3 545622	-1.086165521	0.321003893	-1.086165521	0.321003893
Kars 85305	-1.086240018	0.186258742	-1.0386039	0.334742608
Zfp444 72667	-1.086248428	0.290327814	-1.283897058	0.019025622
Cyth1 19157	-1.086397257	0.28153937	1.060536992	0.290366742
Araf 11836	-1.086413363	0.15407751	-1.190514464	0.003472365
Adsl 11564	-1.086447753	0.144013907	-1.083746999	0.094645845

Tasp1 75812	-1.086497609	0.391835722	-1.372109021	0.133507331
Pycard 66824	-1.086497672	0.438748222	1.015457402	0.488093642
Ergic2 67456	-1.086642169	0.282590793	-1.006920402	0.478572678
Gmpr2 105446	-1.08664651	0.193983541	-1.025669252	0.380648132
Fam158a 85308	-1.086649258	0.345193916	-1.292063638	0.072430481
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Guf1 231279	-1.086834329	0.33273743	-1.011086151	0.476773286
Smpd1 20597	-1.086929253	0.161551797	-1.135236161	0.069127567
Stx2 13852	-1.087028033	0.306254724	1.029320423	0.417300116
D6Wsu163e 28040	-1.087068119	0.369897258	-1.087068119	0.369897258
C030016D13Rik 107372	-1.087118788	0.417726844	-1.75881774	0.042552402
Appb3 225372	-1.08723485	0.221131115	-1.217420482	0.020338848
A930005H10Rik 68161	-1.087283917	0.372983639	-1.156891514	0.259513243
Sorbs1 20411	-1.087324734	0.411348615	1.24859331	0.244048466
0610031J06Rik 56700	-1.087359687	0.284193158	-1.15169209	0.184808728
Akt1 11651	-1.087386414	0.11910144	-1.161445778	0.010528794
Smek2 104570	-1.087455141	0.387618942	1.09625975	0.276140048
Cd302 66205	-1.087458633	0.192977743	-1.087458633	0.192977743
Fbxo9 71538	-1.087496579	0.259798827	-1.011520861	0.462215561
Neur14 216860	-1.087506081	0.308489579	1.057230911	0.305971931
Anubl1 67492	-1.087669351	0.392120403	-1.087669351	0.392120403
Kng1 16644	-1.087710007	0.35613218	-1.448464099	0.010150592
Baat 12012	-1.08773898	0.142946955	-1.043137013	0.27352011
Sh2d7 244885	-1.087857581	0.461706469	2.424107143	0.19229339
Ifitm1 68713	-1.087860872	0.328998266	1.047047472	0.368143437
Dclre1b 140917	-1.08797613	0.38946964	-1.375978809	0.128248225
Mapk3 26417	-1.088015332	0.183264806	-1.147285563	0.068520395
Mettl14 210529	-1.088051716	0.342169159	-1.061562583	0.395401803
Zc3h10 103284	-1.088260227	0.297562999	1.01436562	0.455399455
Dcun1d1 114893	-1.088264751	0.1854887	-1.147554818	0.050856396
Eif2b5 224045	-1.08827428	0.252473617	-1.151905788	0.144222976
Arrdc4 66412	-1.088282409	0.373861955	1.091434061	0.359547135
Cars2 71941	-1.088309572	0.351945996	1.018479715	0.464409947
Mrps34 79044	-1.088365087	0.259180613	-1.176158447	0.070208407
5033414D02Rik 67759	-1.08837642	0.414859335	-1.303598878	0.183686181
Mterfd1 66410	-1.088440133	0.329825119	-1.088440133	0.329825119
Txlna 109658	-1.088456983	0.274569023	1.016169639	0.435606004
Arhgef18 102098	-1.08852837	0.256231137	-1.101348962	0.154583241
Deaf1 54006	-1.088529414	0.234222519	-1.043177809	0.298771594
Myo1c 17913	-1.088679507	0.133195249	-1.097094337	0.082760577
St13 70356	-1.088739326	0.273745727	1.068015592	0.269695574
Phf23 78246	-1.088820264	0.159699474	-1.04234464	0.301056981
Ammecr1l 225339	-1.088846825	0.410267738	1.409293009	0.125331171
Ezr 22350	-1.088862113	0.411103017	-1.086553536	0.406596766
Top2b 21974	-1.088928325	0.290480654	-1.088928325	0.290480654
Krt19 16669	-1.088939484	0.409147811	1.172402411	0.330887778
Psmf1 228769	-1.088946745	0.21813742	-1.155742565	0.094111877
Lrrc8d 231549	-1.088958774	0.192645442	-1.061081291	0.281435854
Itga7 16404	-1.089090883	0.346045465	-1.089090883	0.346045465
Ugt2b37 112417	-1.089124367	0.411000428	-1.089124367	0.411000428
Mrvi1 17540	-1.089138603	0.384003852	1.108520218	0.352721789
Zfp949 71640	-1.089178709	0.285290701	-1.199662836	0.104221464
Gnaq 14682	-1.08919228	0.36802057	1.121331855	0.283883151

Ttl13 269954	-1.089264068	0.421949335	-1.296188149	0.254837692
Med8 80509	-1.089318344	0.269933967	-1.266139371	0.02693089
Foxk2 68837	-1.089370861	0.280450645	-1.184313804	0.125682973
Ubr7 66622	-1.089500106	0.348455593	1.031431811	0.443408333
Tsr2 69499	-1.089507469	0.296264587	-1.237901671	0.057907477
Kif13a 16553	-1.089553489	0.386292461	-1.274025049	0.094083993
4933434E20Rik 99650	-1.089610951	0.195319734	-1.101060201	0.110197872
Flad1 319945	-1.08968682	0.195893948	-1.044311046	0.327110052
Prnp 19122	-1.089775284	0.145367693	-1.158140676	0.018066723
Pan3 72587	-1.089786662	0.347975159	1.195173259	0.091609929
Ppm1a 19042	-1.089800984	0.24092335	-1.147483142	0.125139412
Rlim 19820	-1.089805126	0.270820239	-1.293171996	0.005419948
Sec61a2 57743	-1.089925943	0.369317701	-1.375636541	0.063260593
Zdhhc6 66980	-1.089940985	0.193122717	-1.141797297	0.082018614
Fip11l1 66899	-1.089961075	0.231657182	-1.028485256	0.401885995
Pcyt2 68671	-1.089965654	0.218776286	-1.161239562	0.087131817
Slc17a5 235504	-1.089991928	0.315921951	-1.334791133	0.025223938
Zfp952 240067	-1.090004078	0.366422267	1.09799833	0.285488131
Dusp2 13537	-1.090035563	0.421260295	-1.264329518	0.278376604
Stx4a 20909	-1.090041055	0.245478977	-1.090041055	0.245478977
Pex12 103737	-1.090052302	0.196317024	-1.229122973	0.003532992
Timp3 21859	-1.090103027	0.426073286	1.24926645	0.319369515
Pdcd2 18567	-1.090129217	0.328177002	1.009095856	0.479439197
Mfsd2a 76574	-1.090134125	0.340591478	-1.393339197	0.024190147
Slc25a44 229517	-1.09019543	0.176713069	-1.029088172	0.352201506
Fgd6 13998	-1.090238078	0.354661995	1.065709437	0.381643965
Man1a 17155	-1.090239815	0.364546343	-1.040284729	0.414451972
Adcy5 224129	-1.090319811	0.430873993	1.40854175	0.225429072
Copg 54161	-1.090364984	0.211682862	-1.090364984	0.211682862
Prps1 19139	-1.090468792	0.301465203	-1.090468792	0.301465203
Plk1s1 228730	-1.090500362	0.308541112	-1.010395723	0.452474194
Itih5 209378	-1.090501135	0.40866678	1.278418122	0.201976736
Grina 66168	-1.090566971	0.213503514	-1.090566971	0.213503514
Blvrb 233016	-1.090624578	0.321453424	1.067289331	0.309925482
Maf 17132	-1.090657102	0.401361348	1.081763805	0.332319548
Ptp4a2 19244	-1.090729689	0.100361951	-1.090729689	0.100361951
Efna1 13636	-1.0907425	0.338451601	1.028663841	0.444338704
Cyb5d2 192986	-1.090747453	0.113024193	-1.046843254	0.230237941
Mios 252875	-1.090761054	0.303504729	1.041323016	0.351744471
Hpse 15442	-1.090801166	0.370426379	-1.111146496	0.310200675
Ncam1 17967	-1.090818036	0.43733707	-1.218643176	0.374216389
Ndufs1 227197	-1.090825462	0.322257042	1.046442224	0.386316599
Phkg2 68961	-1.090852782	0.245850838	-1.15437017	0.097217564
Inca1 103844	-1.090887806	0.312683962	-1.022931483	0.433013789
Diap1 13367	-1.090907937	0.095460299	-1.132408949	0.019733066
Asap2 211914	-1.090917998	0.387131857	-1.090917998	0.387131857
Wdtdc1 230796	-1.090955629	0.27354174	-1.183402027	0.123059562
Nek7 59125	-1.091311821	0.324560562	1.073614437	0.295146981
Hnrnp3 432467	-1.091352483	0.304469863	-1.350454006	0.006371872
Pde6d 18582	-1.091401132	0.242529477	-1.091401132	0.242529477
Tgfb1 21810	-1.091468714	0.255966211	-1.091468714	0.255966211
Bfar 67118	-1.091517694	0.254146186	-1.091517694	0.254146186
Fam65a 75687	-1.091571979	0.289502304	1.019913181	0.440516738

Pgs1 74451	-1.09157901	0.267743205	1.005881582	0.480328196
Lrriq3 74435	-1.091676	0.453698385	1.540949445	0.312650402
Helz 78455	-1.091695322	0.310826864	-1.022110922	0.408815873
Ctdnep1 67181	-1.091739445	0.184446818	-1.166313603	0.02009718
Stk32c 57740	-1.091805697	0.422108171	1.146619207	0.389158388
Nedd4 17999	-1.091847408	0.333272491	1.035651705	0.426767181
170002915Rik 75641	-1.091860638	0.435262381	-1.564840708	0.22849052
Arid5a 214855	-1.091893686	0.376311977	-1.168348157	0.25708342
Fance 72775	-1.092121124	0.30245738	-1.310338678	0.035863898
40970 224703	-1.092174619	0.172340818	-1.206987947	0.009919059
Mrs2 380836	-1.092202268	0.382825392	1.139326156	0.306545422
Mutyh 70603	-1.092281082	0.451060722	-2.164615657	0.174610843
Dph3 105638	-1.092297434	0.278649367	-1.287977997	0.018859941
Rtp3 235636	-1.092298715	0.242255328	-1.164742631	0.119638022
Der1 67819	-1.092321422	0.135632562	-1.092321422	0.135632562
6030458C11Rik 77877	-1.092380008	0.277403277	1.004441874	0.485292988
Nr0b2 23957	-1.092439127	0.402071815	-1.413674854	0.16683703
Plxdc2 67448	-1.092484625	0.448641026	1.051959991	0.465263252
Ptch1 19206	-1.092505206	0.413907719	1.349235054	0.157020309
Naa10 56292	-1.092564676	0.335215813	-1.09119905	0.296794938
Ssbp4 76900	-1.092575818	0.351036559	-1.092575818	0.351036559
Slc22a18 18400	-1.092599543	0.151508686	-1.212692008	0.000232194
Smc6 67241	-1.092614991	0.162937275	-1.045131683	0.302177065
Pde4b 18578	-1.092701854	0.396137047	-1.091561373	0.371180448
Sigirr 24058	-1.092709901	0.373368946	-1.39762286	0.0705658
Dnaja3 83945	-1.092728148	0.17861014	1.027409622	0.290953015
Bbc3 170770	-1.092739075	0.291854932	-1.012173022	0.467814973
Mast4 328329	-1.092750314	0.386673247	-1.092750314	0.386673247
Ate1 11907	-1.092752562	0.396571961	-1.092752562	0.396571961
Rps4y2 66184	-1.092803527	0.343419835	1.159519574	0.195392738
Klf9 16601	-1.092813363	0.39753943	1.017886364	0.476625803
Arid1b 239985	-1.092887202	0.340058702	-1.034522724	0.393997248
Al987944 233168	-1.092920389	0.324478663	-1.092920389	0.324478663
Gm4987 245405	-1.092945806	0.419069587	1.317275296	0.237108226
Ddx24 27225	-1.092981118	0.113617039	-1.057089759	0.212158436
Numa1 101706	-1.093018386	0.200085688	-1.037072916	0.358833529
Tlr6 21899	-1.093037576	0.466232868	1	#DIV/0!
Elk3 13713	-1.093066077	0.296927485	1.008265031	0.478739678
Rragd 52187	-1.093157669	0.416297446	1.122900305	0.399786921
Hspa4 15525	-1.093213963	0.067061634	-1.158779103	0.002172534
Zfp106 20402	-1.093222275	0.225402532	-1.102670673	0.167466162
Oxsr1 108737	-1.093235154	0.357755761	1.12974844	0.232433695
Fxn 14297	-1.093327001	0.315121223	-1.250054722	0.095676225
Ppp6r1 243819	-1.093415546	0.101781818	-1.045834557	0.210588551
Apoc2 11813	-1.093520149	0.356657993	-1.294247406	0.136654619
Uqcrc2 67003	-1.093520638	0.147583241	-1.136321372	0.037834612
Fam129c 100037278	-1.093559414	0.448099225	-1.953378788	0.19862072
Fam19a3 329731	-1.093559414	0.448099225	-1.953378788	0.19862072
Cyp2c39 13098	-1.093618681	0.366085708	-1.093618681	0.366085708
Ppap2a 19012	-1.093635246	0.310559804	1.039179028	0.379751779
Ccnt2 72949	-1.093659537	0.372083159	1.151862293	0.243502198
2700097O09Rik 72658	-1.09373591	0.399386337	1.316926827	0.18668664
Sntg1 71096	-1.093752051	0.46721525	1	#DIV/0!

Rbm42 68035	-1.093861916	0.272604782	-1.206893242	0.044871553
Fez2 225020	-1.093927712	0.268039657	-1.286860296	0.019410829
Prrg3 208748	-1.093935354	0.408056982	-1.219666534	0.282936538
Etv6 14011	-1.093993122	0.26975359	-1.093993122	0.26975359
Nme3 79059	-1.094010756	0.276029694	-1.209731597	0.091826101
Mto1 68291	-1.094104833	0.336253603	-1.187554832	0.203311463
Taf6 21343	-1.094132494	0.187331637	-1.160131463	0.046057726
Brf1 72308	-1.094170541	0.286601785	-1.01496218	0.462810068
Snrnp35 76167	-1.094216575	0.302020317	1.021471451	0.44472463
Pak1 18479	-1.094223845	0.418354594	1.202353288	0.341082538
Nod1 107607	-1.09422856	0.33412252	-1.166502479	0.253280883
Tex261 21766	-1.094299877	0.142575705	-1.130031446	0.087330335
Copb2 50797	-1.094326265	0.174642402	-1.072372264	0.107801989
Agpat5 52123	-1.094345117	0.350625017	1.094083496	0.315819953
Gusb 110006	-1.094376279	0.263894052	-1.000975501	0.496886449
Nt5c3l 68106	-1.094378839	0.407859894	-1.094378839	0.407859894
Tead2 21677	-1.094401743	0.400902727	-1.094401743	0.400902727
Havcr2 171285	-1.094441607	0.427574072	1.088090611	0.427947013
Nprl2 56032	-1.094451706	0.301309018	1.117850748	0.164904585
Dom3z 112403	-1.094466548	0.318387425	-1.135770598	0.231026046
Dact3 629378	-1.09454477	0.356133728	1.090563272	0.290638326
Map2k1 26395	-1.094577571	0.339561722	1.021059813	0.45712538
Eif4g2 13690	-1.094628184	0.363292411	1.222068462	0.149354767
Tm9sf2 68059	-1.094642953	0.309836756	-1.215274758	0.144805459
1810020D17Rik 66273	-1.094810808	0.316048489	-1.094810808	0.316048489
Cdkn2aipnl 52626	-1.094965793	0.18739887	-1.179919482	0.033578918
Mlh3 217716	-1.094966534	0.321097237	1.149212272	0.139764886
Sh3rf1 59009	-1.094970556	0.41239332	-1.471459302	0.180932952
Usp9x 22284	-1.094999789	0.279973705	-1.201781251	0.116578121
Tnfrsf14 230979	-1.095014221	0.438357603	1.3199245	0.248658046
Qars 97541	-1.09502312	0.22557467	-1.09502312	0.22557467
Pts 19286	-1.095099863	0.20643971	-1.152384871	0.110469051
Gm14431 100303732	-1.095119951	0.451092207	-1.5378	0.167706141
Mrpl44 69163	-1.095183705	0.251372462	1.056528209	0.296444885
Fzd7 14369	-1.095345343	0.401297582	-1.451036311	0.14915249
Dhx29 218629	-1.095352184	0.37455238	1.135506144	0.296673174
Med19 381379	-1.095353952	0.282866141	-1.200605881	0.084323837
Zfp706 68036	-1.095364525	0.233239986	-1.256878651	0.017232289
Atp5f1 11950	-1.095431774	0.151904542	-1.178293856	0.009847096
Mfn2 170731	-1.095452047	0.303067506	1.123690837	0.157774541
Bcap31 27061	-1.095473958	0.030301007	-1.095473958	0.030301007
Pik3c3 225326	-1.095516647	0.237966874	-1.166825275	0.121836287
Plxna2 18845	-1.095528255	0.294621854	1.093925272	0.234044125
Rtp4 67775	-1.095646092	0.29163955	-1.175156899	0.157368486
Wdr44 72404	-1.095664796	0.451439637	-3.187161616	0.058355663
1810030O07Rik 69155	-1.095842768	0.333765015	-1.095842768	0.333765015
Vps13b 666173	-1.095844255	0.3919689	-1.314530709	0.222424674
Chmp3 66700	-1.095856699	0.295268814	-1.22472254	0.107935295
Adck3 67426	-1.095890085	0.170653974	-1.124135688	0.052554514
Fam50a 108160	-1.09594734	0.266816547	-1.174172527	0.122401503
Fam169a 320557	-1.095948477	0.453714834	-1.122857175	0.457104283
Ddx59 67997	-1.095960879	0.391967399	-1.095960879	0.391967399
Gatsl2 80909	-1.095981981	0.433934989	1.340895194	0.306899364

Rasgrp3 240168	-1.095988197	0.408421993	-1.07973984	0.42022956
Gm14420 628308	-1.096041291	0.26687518	-1.207481971	0.089674629
Itm2b 16432	-1.096098365	0.204179502	-1.128306437	0.082449503
Alg12 223774	-1.096147652	0.252421458	-1.096147652	0.252421458
Fbxw4 30838	-1.096202125	0.316105494	-1.342833692	0.041460051
Mzt2 72083	-1.096222448	0.252524184	-1.189565626	0.065529628
Cyp2d10 13101	-1.096235908	0.272721815	1.014482163	0.452954725
Wdr55 67936	-1.096390704	0.193608488	-1.076320553	0.180733138
Asgr2 11890	-1.096418096	0.291215596	-1.26558216	0.038846794
Gm4498 100043523	-1.096483333	0.170446566	1	#DIV/0!
Gm4141 100042976	-1.096483333	0.170446566	1	#DIV/0!
Gm4201 100043061	-1.096483333	0.170446566	1	#DIV/0!
Eif2s1 13665	-1.096509493	0.213106712	-1.186805366	0.054960954
Ppp2r1a 51792	-1.096513784	0.153696683	-1.154741739	0.035306027
Bmpr1a 12166	-1.096939075	0.389310242	-1.284003586	0.243202006
Mat2a 232087	-1.097064007	0.222713375	-1.084423654	0.174601027
Dnajc1 13418	-1.097125691	0.122950736	-1.163399748	0.015334217
Derl2 116891	-1.097160927	0.212259187	1.023860869	0.401627513
Commd7 99311	-1.097172173	0.246077623	1.001637467	0.493887675
Apba3 57267	-1.097396382	0.21663313	-1.097396382	0.21663313
Heatr5a 320487	-1.09740753	0.386915637	1.18198059	0.265400664
Tob2 57259	-1.097415327	0.357977996	-1.089451947	0.330037771
Rab5a 271457	-1.097550873	0.366770761	-1.257788738	0.21642058
C1qb 12260	-1.097571124	0.277097143	-1.20325055	0.119614719
Gemin6 67242	-1.097654385	0.412419184	-1.502208192	0.173804243
Tmcc2 68875	-1.097735474	0.363287203	1.049585241	0.428311361
Gtl3 14894	-1.097745924	0.267521458	-1.073298647	0.253464393
Atpif1 11983	-1.097786477	0.261808114	-1.018114279	0.445606348
Larp1 73158	-1.097842079	0.264968861	-1.17610584	0.149394356
Fam172a 68675	-1.097857199	0.418442077	-1.441216015	0.231761713
Yeats4 64050	-1.097877292	0.202348019	-1.034394589	0.367118686
1110054O05Rik 66209	-1.097889663	0.373681073	-1.510959448	0.053398815
Snx7 76561	-1.097927409	0.365030803	1.156522204	0.242736194
Grpel2 17714	-1.097929482	0.27921545	1.000723699	0.497823851
Ywhah 22629	-1.097940728	0.23080176	-1.028218209	0.403630952
Klkb1 16621	-1.097953588	0.232061415	-1.181249252	0.064494684
Gm2382 100039707	-1.098032046	0.146613358	-1.098032046	0.146613358
Amn1 232566	-1.09805755	0.414593618	1.228753995	0.315887073
Dynll1 56455	-1.098075588	0.280377922	-1.187476545	0.153121671
Bend7 209645	-1.098142162	0.353285021	1.090084437	0.341738948
B3gnt8 232984	-1.098181762	0.302373269	1.027416127	0.430915042
Ostm1 14628	-1.098184221	0.349375886	-1.098184221	0.349375886
Rnf167 70510	-1.098198278	0.277279036	-1.062105816	0.32861517
4932438A13Rik 229227	-1.098288834	0.38794194	1.044262091	0.443762944
Gpt 76282	-1.098380078	0.156009678	-1.145885642	0.079964729
Ushbp1 234395	-1.09838497	0.280361585	-1.173360784	0.119211936
Vps72 21427	-1.098389299	0.257069147	-1.212688837	0.07512037
Ecm1 13601	-1.098480497	0.17165278	-1.098480497	0.17165278
Mad2l2 71890	-1.098499773	0.212990624	-1.056119893	0.323850461
Mtpn 14489	-1.098515761	0.373389413	-1.039741235	0.42939764
Med18 67219	-1.098823745	0.356126905	1.048806003	0.411701733
Mob3a 208228	-1.098824805	0.35303444	-1.178343657	0.175991344
Tmem97 69071	-1.09891053	0.120563994	-1.163165101	0.005711297

Rai1 19377	-1.098918057	0.316482079	-1.289235729	0.067946587
Tns4 217169	-1.098923521	0.43049474	-1.643237139	0.199632415
Mtap7d1 245877	-1.098926735	0.088323672	-1.143410629	0.01640494
Mgat4a 269181	-1.098969044	0.426471358	1.351831964	0.273587034
Mrpl4 66163	-1.099019777	0.234589028	-1.172189147	0.094134357
Cfhr1 50702	-1.09902659	0.257513167	-1.196382976	0.107083494
Calcr1 54598	-1.099068589	0.41818106	-1.245882633	0.301680706
Cdc42se2 72729	-1.099074618	0.360376425	-1.108587709	0.341003647
E2f3 13557	-1.099134962	0.328650767	-1.099134962	0.328650767
A530013C23Rik 329562	-1.09916836	0.419169186	-2.044082876	0.020830994
Celsr1 12614	-1.099218024	0.322548806	1.162411082	0.119504353
Exosc5 27998	-1.099221159	0.299569077	-1.204985244	0.159474574
Slc9a3r2 65962	-1.099240799	0.281456898	-1.016939086	0.455715997
D6Wsu116e 28006	-1.099296716	0.235947152	-1.034262687	0.397509465
Gtpbp1 14904	-1.099328317	0.148553946	-1.099328317	0.148553946
Casp4 12363	-1.099362454	0.442759694	1.566000326	0.260764541
1810006K21Rik 69038	-1.099523228	0.328563388	1.020093653	0.462077049
Fam110b 242297	-1.09956913	0.441456198	-1.49318803	0.267883497
Pcolce 18542	-1.099635802	0.326143748	-1.305019121	0.072639224
Coq5 52064	-1.09966663	0.2328977	-1.09966663	0.2328977
Arl4d 80981	-1.09968912	0.328539987	-1.000630659	0.498859427
Syf2 68592	-1.099741906	0.141452459	-1.035898847	0.297797751
Ptdss1 19210	-1.099799279	0.15384786	-1.227207225	0.001349191
Icam1 15894	-1.099800115	0.233365406	-1.153431546	0.139567223
Sec62 69276	-1.099853367	0.157853157	-1.050400385	0.292669348
Zcchc2 227449	-1.099920532	0.375167959	-1.099920532	0.375167959
Txn14b 234723	-1.099971207	0.256074996	-1.099971207	0.256074996
Slc22a5 20520	-1.099991492	0.225287065	-1.191199645	0.075512253
Gprc5c 70355	-1.099998958	0.192562044	-1.104419399	0.087029359
Ttyh1 57776	-1.10009172	0.409053658	-1.817530336	0.049125667
Apeh 235606	-1.10020687	0.188304726	-1.107976281	0.082586144
Aadac 67758	-1.100248404	0.131563864	-1.161307126	0.033200492
Vdac1 22333	-1.100251963	0.053976575	-1.17213277	0.000148122
2900097C17Rik 347740	-1.10026854	0.278951888	1.077606493	0.280742692
Tbc1d10a 103724	-1.100293936	0.239734498	1.052250026	0.305680401
Nostrin 329416	-1.100301045	0.293173125	-1.100054449	0.256198342
Mn1 433938	-1.100352448	0.356338071	-1.070002872	0.346281755
Cyp2a12 13085	-1.100514541	0.150661124	-1.054725511	0.270683477
Mars 216443	-1.10056644	0.16859738	-1.109892727	0.041699506
Mrrf 67871	-1.100581696	0.270427993	-1.100581696	0.270427993
Tmem20 240660	-1.100594113	0.331047683	1.009439171	0.474659656
Me1 17436	-1.10072901	0.207995587	-1.021274821	0.41111862
Enc1 13803	-1.100751063	0.377884206	-1.368164566	0.153304211
Bscl2 14705	-1.100783307	0.247938823	1.006865157	0.474449073
Nrgn 64011	-1.100884618	0.404309918	1.358528265	0.105649276
Uqcrc1 22273	-1.10093307	0.145199166	-1.10093307	0.145199166
Ddx19b 234733	-1.101004708	0.251973983	-1.101004708	0.251973983
Ogfrl1 70155	-1.10105329	0.382714276	1.143647253	0.323108016
Sgsm3 105835	-1.101091127	0.376012217	-1.233073143	0.200340315
Dus1 68730	-1.101098307	0.232659049	-1.101098307	0.232659049
Abcd3 19299	-1.101151731	0.276446009	1.013229138	0.461466177
Klhl2 77113	-1.101160497	0.385995726	1.006319009	0.492418007
Rdh7 54150	-1.101191234	0.180880097	-1.164238843	0.078451095

Gltpd1 79554	-1.101252437	0.259019104	-1.033582594	0.334010421
Sod1 20655	-1.101383581	0.309673394	-1.225850014	0.153808647
Zfp825 235956	-1.101489748	0.218904881	-1.083575725	0.174479123
Fam36a 66359	-1.101597875	0.225100859	-1.16822288	0.101454452
9030625A04Rik 210808	-1.101600697	0.290727091	-1.216698121	0.135290528
Atg12 67526	-1.101647686	0.266682077	-1.224798926	0.034242197
Chid1 68038	-1.101667201	0.277345623	-1.202089599	0.137037482
Lyrn2 108755	-1.101977205	0.335510837	-1.449644014	0.01926469
Zfp35 22694	-1.101990623	0.28548669	-1.101990623	0.28548669
Poc1b 382406	-1.102074205	0.352725153	-1.241526785	0.217321483
Vma21 67048	-1.102088635	0.311479973	1.029313328	0.435070312
Dkc1 245474	-1.10214163	0.275990476	-1.10214163	0.275990476
Furin 18550	-1.10217291	0.130139312	-1.05680156	0.248550696
Slc39a14 213053	-1.102193098	0.267397729	1.051950033	0.350165117
Gtf3c2 71752	-1.102345359	0.247792838	-1.028095592	0.41641755
2010106G01Rik 66552	-1.102353182	0.312166476	1.137281848	0.163220536
Sgms2 74442	-1.102433335	0.356461262	-1.007670111	0.482920115
Tmem167b 67495	-1.102474084	0.33482457	-1.318577013	0.090123169
Mospd2 76763	-1.10253996	0.3975264	1.20033393	0.282772298
Ranbp2 19386	-1.102545158	0.413939963	-1.050107426	0.457137635
Mecr 26922	-1.102579282	0.247261065	-1.04452362	0.378778702
Cxcl1 14825	-1.102622038	0.446297183	-1.101104161	0.457196108
Carkd 69225	-1.102627731	0.208932944	-1.102627731	0.208932944
Anapc13 69010	-1.102634943	0.299798084	-1.091913658	0.257614372
Snai1 20613	-1.102654683	0.334136459	1.038188306	0.431029199
Atg9a 245860	-1.102746724	0.079922312	-1.016775197	0.326826317
Tst 22117	-1.102749648	0.274377194	-1.174418293	0.180474034
1110004F10Rik 56372	-1.10275926	0.167667386	-1.142288518	0.101001429
Gm8909 667977	-1.102768552	0.46446883	1	#DIV/0!
Chm 12662	-1.102771761	0.422709513	1.103344271	0.405332569
2310044H10Rik 69683	-1.102773128	0.287103952	-1.217162224	0.132785671
Ints4 101861	-1.102838343	0.283277585	-1.102838343	0.283277585
Fbxo30 71865	-1.102876109	0.363737751	1.034403878	0.441605177
D15Ert621e 210998	-1.102983893	0.351261989	-1.096541384	0.270325645
Tssk2 22115	-1.103023756	0.461369474	1	#DIV/0!
Gfi1 14581	-1.103023756	0.461369474	1	#DIV/0!
Lgals2 107753	-1.103023756	0.461369474	1	#DIV/0!
Kcna5 16493	-1.103023756	0.461369474	1	#DIV/0!
Spdef 30051	-1.103023756	0.461369474	1	#DIV/0!
Rep15 66532	-1.103023756	0.461369474	1	#DIV/0!
Shc2 216148	-1.103023756	0.461369474	1	#DIV/0!
Scn3b 235281	-1.103023756	0.461369474	1	#DIV/0!
Ppifos 68173	-1.103023756	0.461369474	1	#DIV/0!
Mcm5 17218	-1.103070001	0.387421293	-1.103070001	0.387421293
Lrp10 65107	-1.103110074	0.177904179	-1.104550433	0.100595026
Msto1 229524	-1.103153221	0.269733208	-1.016903943	0.440069246
Cdc123 98828	-1.103190691	0.177465854	-1.047076174	0.318546057
Star 20845	-1.103300768	0.420451904	-2.289166424	0.002629101
Mrps36 66128	-1.103420828	0.278812929	-1.251351611	0.068561902
Zfp2 22678	-1.103655491	0.405852188	1.066898461	0.39959947
Wdr61 66317	-1.10367932	0.193392821	-1.038088117	0.361140061
Narg2 93697	-1.103704938	0.3592823	-1.143588669	0.235583368
Akap8l 54194	-1.103710289	0.2327165	-1.200505159	0.08252173

Larp1b 214048	-1.103789078	0.265322724	-1.19830045	0.049758081
2410089E03Rik 73692	-1.103816842	0.384328365	-1.288870008	0.195036129
Slc7a8 50934	-1.103883549	0.325651608	-1.029730539	0.411159615
Oas3 246727	-1.103925293	0.376935558	1.313055525	0.100568822
Rnft1 76892	-1.103968797	0.363168299	1.004523099	0.493447535
Ube2e1 22194	-1.103974735	0.385750729	-1.124134544	0.286606652
Mapk15 332110	-1.104093635	0.366729629	-1.004854459	0.493919215
Decr2 26378	-1.104257461	0.106444605	-1.062660509	0.207754675
Mctp2 244049	-1.104259806	0.375854756	-1.258515643	0.213439808
BC005624 227707	-1.10434101	0.190250846	-1.040583766	0.352877792
Acvr1 11477	-1.104360669	0.367391779	-1.238729384	0.253968022
Snx12 55988	-1.104367903	0.214074258	-1.104367903	0.214074258
Cul4b 72584	-1.104464669	0.336484258	1.059159237	0.392053935
Tnfaip81 66443	-1.104491668	0.256570045	-1.160858976	0.116662473
Nudt22 68323	-1.104634938	0.267346407	1.076267132	0.270383554
D430042O09Rik 233865	-1.104758527	0.213522093	1.055613915	0.207711461
Ripk2 192656	-1.104837218	0.377851859	-1.104837218	0.377851859
Atp6v1a 11964	-1.104901096	0.320603666	-1.104901096	0.320603666
Bub3 12237	-1.105047754	0.163039266	-1.134244205	0.122084009
Mettl16 67493	-1.105062806	0.216112306	-1.0214576	0.423262307
Engase 217364	-1.105071324	0.205303164	1.045855876	0.255150662
Abhd16a 193742	-1.105077884	0.069264145	-1.14462122	0.02426691
Ppp2r3a 235542	-1.105312383	0.349126836	1.00604124	0.490193812
Otud7b 229603	-1.105336207	0.262684519	-1.055049825	0.37032642
1110034B05Rik 68736	-1.105336319	0.40462589	-1.571445828	0.131377168
Mrps21 66292	-1.105458688	0.315893584	-1.065682065	0.305904921
Mrps27 218506	-1.105497001	0.258821134	-1.014346607	0.457136914
Klc4 74764	-1.105501532	0.161467622	-1.105501532	0.161467622
Grem2 23893	-1.105535734	0.356637826	-1.539438376	0.015224935
Pdzd8 107368	-1.105551509	0.340292329	1.105256187	0.286431049
9030425E11Rik 71566	-1.105600254	0.395377397	-1.742553972	0.031364529
9830001H06Rik 320706	-1.105610997	0.206384115	1.052837484	0.197073969
Gm11194 790911	-1.105686963	0.457785507	1.150701957	0.450338304
Rnf150 330812	-1.105747413	0.374879679	-1.105747413	0.374879679
Smg5 229512	-1.105873632	0.127251442	-1.065159991	0.12833148
Amigo2 105827	-1.105884813	0.294747666	-1.105884813	0.294747666
Rpa1 68275	-1.10590874	0.286301387	-1.343094339	0.02901624
Tomm70a 28185	-1.105979143	0.235818102	-1.310097651	0.004820899
Dnajc18 76594	-1.106000054	0.264590499	1.025683887	0.409639255
Psmc12 66997	-1.106080034	0.200526535	1.0315115	0.336522403
Tm2d2 69742	-1.106116043	0.152906918	-1.106116043	0.152906918
Umps 22247	-1.106140553	0.313553942	-1.054286169	0.40818156
Micall1 27008	-1.10614916	0.299717196	-1.303280931	0.046789255
Fut11 73068	-1.106152098	0.371944579	1.27033446	0.165570967
Lats2 50523	-1.106241909	0.412433195	-1.224583761	0.321752687
Abi2 329165	-1.106254396	0.417444862	-1.488990659	0.229586367
Fut10 171167	-1.106285461	0.428894684	1.24799293	0.361390656
Prickle3 54630	-1.106377716	0.264331835	-1.025635244	0.432369589
Gpm6a 234267	-1.106459524	0.44336767	-2.077814532	0.188577653
Vps11 71732	-1.106565678	0.183677708	-1.220868873	0.009204323
Prosc 114863	-1.106589394	0.119038228	-1.106589394	0.119038228
Serpina1b 20701	-1.106733169	0.231788677	-1.283232024	0.00350329
Ctsh 13036	-1.106816279	0.17954709	-1.236767915	0.013765771

F7 14068	-1.106816875	0.270252511	-1.212573064	0.127323376
Rnf20 109331	-1.106818375	0.319123041	1.0566967	0.377594974
Slc35c2 228875	-1.10688986	0.198925512	-1.267328383	0.009418539
Steap4 117167	-1.106910185	0.243640155	-1.106910185	0.243640155
Gpkow 209416	-1.106925437	0.35905561	-1.303324909	0.183512114
Pin1 23988	-1.10693089	0.197459294	-1.10693089	0.197459294
Pitpnc1 71795	-1.107076922	0.300460864	-1.074255893	0.322731779
Prpf40b 54614	-1.107092652	0.295100025	1.01364511	0.464405059
Gpr137 107173	-1.107107918	0.148261832	-1.04809064	0.293655633
Sin3a 20466	-1.107214122	0.246446463	-1.120640828	0.190601548
Jkamp 104771	-1.107235419	0.378000846	-1.107235419	0.378000846
Gpr89 67549	-1.107272036	0.266251488	-1.032918496	0.422682831
Cfp 18636	-1.107300686	0.258091511	-1.107300686	0.258091511
Rbm25 67039	-1.107319164	0.266620241	-1.016879207	0.422309473
Pknx1 18771	-1.10732262	0.194311877	-1.209891951	0.01321719
Tpd52l1 21987	-1.107373541	0.309134556	-1.054219697	0.313839484
Atg2a 329015	-1.107374067	0.086865592	-1.05926074	0.178906283
Dmbt1 12945	-1.107378048	0.470748597	-2.8	0.173296754
Pkm2 18746	-1.107397363	0.243135191	-1.076815804	0.223835871
Dbi 13167	-1.107454923	0.297714051	-1.107454923	0.297714051
Gosr2 56494	-1.107456763	0.105487075	-1.107456763	0.105487075
Mcc 328949	-1.107480957	0.312281131	-1.060445768	0.35990186
Map3k3 26406	-1.107502781	0.383514862	-1.107502781	0.383514862
1700021K19Rik 100502698	-1.107534302	0.199906029	-1.107534302	0.199906029
Ccdc88c 68339	-1.107556171	0.410420126	1.182933057	0.361044289
Znrf3 407821	-1.107598225	0.371133271	1.327627504	0.019691073
App1 72993	-1.10760624	0.365805139	-1.352733886	0.157412574
Pik3r1 18708	-1.107616598	0.361848974	1.227408811	0.196252074
Stau2 29819	-1.107649615	0.416124651	-1.305073909	0.276082037
Mtf1 17764	-1.107665513	0.16580976	-1.164693388	0.063834855
Fam176b 230752	-1.107673756	0.34825319	-1.302318508	0.161749213
Triap1 69076	-1.10777347	0.298053504	1.12281646	0.188878842
Tnpo3 320938	-1.107796142	0.2302513	-1.011081117	0.458647667
2010012O05Rik 66439	-1.107865732	0.271234374	-1.32900111	0.028348941
Abhd12 76192	-1.107878299	0.238817133	-1.139229924	0.093550531
Kremen1 84035	-1.107886268	0.272406618	-1.314043932	0.041210102
Mtmr14 97287	-1.108093191	0.244686526	1.064190107	0.233008862
Wdfy1 69368	-1.108182408	0.284307578	-1.011131229	0.474936062
Cnst 226744	-1.10850571	0.402873721	1.107748108	0.34120505
Stk39 53416	-1.108511966	0.403686133	-1.308146657	0.221157384
Lamp2 16784	-1.108514137	0.254952514	-1.116290072	0.237503357
C4bp 12269	-1.108687609	0.285459238	-1.013152094	0.470998302
Sec24c 218811	-1.108822247	0.1613695	-1.042212369	0.317766367
Ethe1 66071	-1.108854061	0.238512756	-1.194587602	0.118033265
Cnpy2 56530	-1.108890829	0.15150897	-1.087780132	0.215965812
Pnkp 59047	-1.108910646	0.269207718	-1.01403469	0.465415578
4930581F22Rik 78934	-1.108912523	0.286586363	-1.202065393	0.144395775
Eccit 26940	-1.108986423	0.23551382	-1.279785428	0.026548699
Bag4 67384	-1.109052459	0.359361326	-1.321982116	0.173590732
Mtmr9 210376	-1.109072841	0.41917065	1.426576913	0.212510287
B4galt3 57370	-1.109133845	0.295403435	-1.374274907	0.02522531
Ublcp1 79560	-1.109174389	0.252471782	-1.219016307	0.057269627
Wac 225131	-1.109225176	0.212540733	-1.016966578	0.436624521

Pomt2 217734	-1.109426507	0.148851262	-1.03128175	0.32448956
Gpn3 68080	-1.109476205	0.2906711	-1.396740837	0.003428925
Grtp1 66790	-1.109479087	0.292046003	-1.109479087	0.292046003
Casp3 12367	-1.109481631	0.391004591	1.078699749	0.408394536
Paqr7 71904	-1.109483797	0.149790131	-1.109483797	0.149790131
Slc25a26 67582	-1.109500149	0.253102327	-1.218836565	0.059915749
2610029101Rik 77032	-1.109526163	0.241361317	1.006549053	0.473037804
Znrd1 66136	-1.109553749	0.259323106	-1.220822609	0.107437584
Stag2 20843	-1.109690622	0.279106597	1.017580695	0.453168163
Cbx2 12416	-1.109794753	0.310998075	-1.328047986	0.000985848
Malt1 240354	-1.109807339	0.394994659	-1.409805383	0.206748338
Tln1 21894	-1.109886466	0.153501567	-1.162921892	0.07896819
Supt6h 20926	-1.109961251	0.110472982	-1.109961251	0.110472982
Rsf1 233532	-1.109978151	0.314415047	-1.009785066	0.480843622
Psemb8 16913	-1.110111384	0.265063331	-1.082189411	0.250887285
Oit3 18302	-1.110138532	0.222630333	-1.137315261	0.109420123
Psemb10 19171	-1.110198108	0.357442218	-1.268507924	0.124862363
Serpinf2 18816	-1.110262982	0.208909297	-1.120031215	0.13952764
Pdia3 14827	-1.110264041	0.245897066	-1.110264041	0.245897066
Th1l 57314	-1.110274736	0.195010903	-1.029394601	0.389916804
Rpgr 19893	-1.110369511	0.447767173	-1.036968712	0.482217965
Afap1l1 106877	-1.11044809	0.256023113	-1.213878333	0.078479375
1110008P14Rik 73737	-1.110491985	0.308443478	-1.097788722	0.30183335
Ctsb 13030	-1.110693559	0.12203297	-1.138985864	0.025549629
Akt1s1 67605	-1.110706307	0.211416865	-1.041167034	0.368196131
Gramd1c 207798	-1.110768456	0.252297127	-1.017287572	0.449591755
Isca2 74316	-1.110771938	0.2016744	-1.032839144	0.380733558
Gm3336 100041434	-1.110840338	0.40839292	-1.294709025	0.200701304
Stt3b 68292	-1.110879597	0.205646563	-1.182300617	0.080239932
Ube2l6 56791	-1.110890582	0.046744228	-1.110890582	0.046744228
Bag2 213539	-1.110910985	0.297642976	-1.294749682	0.07317934
Poll 56626	-1.110939614	0.256689948	-1.013232892	0.464697767
Hdac5 15184	-1.110948608	0.195119984	-1.109660573	0.10187663
Zfp94 22756	-1.11098598	0.398440205	-1.411145229	0.219727047
Thpo 21832	-1.111041211	0.234662526	-1.342109453	0.000715648
Cog4 102339	-1.111298475	0.159255882	-1.114142822	0.085190994
Ubl3 24109	-1.111317483	0.228705355	-1.002153367	0.49195363
Tbc1d25 209815	-1.111359305	0.342856213	-1.394703273	0.067880075
Pex11b 18632	-1.111367437	0.113417543	-1.138411559	0.080908498
Lbp 16803	-1.111497231	0.154745119	-1.158872301	0.092000771
Lcp1 18826	-1.111499801	0.264986523	-1.111499801	0.264986523
Akr7a5 110198	-1.111551277	0.313148704	-1.319809258	0.0766729
Mrps2 118451	-1.111595606	0.313129146	-1.219801433	0.166078118
Rnf141 67150	-1.111606482	0.427468748	1.59679169	0.175708399
Dctn5 59288	-1.111636596	0.276113839	-1.082574284	0.259386008
Dync1li1 235661	-1.111705663	0.221688397	-1.111705663	0.221688397
Rpe 66646	-1.111729495	0.333219985	1.015627999	0.475144227
Ddx54 71990	-1.111889008	0.225825863	-1.120661677	0.144997835
Ptk2b 19229	-1.112037451	0.153831	1.001957967	0.489030649
Trappc2l 59005	-1.11204765	0.299307973	1.152740182	0.07098105
Cs 12974	-1.112079557	0.085055309	-1.135916065	0.060885929
Tstd2 272027	-1.112083631	0.369736722	1.090153211	0.391516785
Zswim4 212168	-1.112113203	0.213922314	-1.187946364	0.082497338

Rad51l3 19364	-1.112229317	0.224296694	-1.20880169	0.08706057
Atp6v0a1 11975	-1.112347847	0.126595337	1.000294618	0.49790148
Ndufab1 70316	-1.112387674	0.296898894	1.011340967	0.475766955
Mllt4 17356	-1.112394862	0.399792432	1.08902241	0.37673646
Mut 17850	-1.112410977	0.326648946	1.051242886	0.406809493
Al314180 230249	-1.112520703	0.142970971	-1.036876802	0.306013003
Fbxl19 233902	-1.112523182	0.157628457	-1.049900071	0.300280968
Rab1 19324	-1.11255315	0.267344944	-1.019535657	0.450066644
Prmt2 15468	-1.112578498	0.411759383	-1.630036358	0.163641542
Sh3tc1 231147	-1.112626488	0.295505242	-1.411927822	0.004393944
Atg4b 66615	-1.112652312	0.173229209	-1.112652312	0.173229209
Mtx2 53375	-1.112654646	0.255638483	-1.036232662	0.414098127
Tm7sf3 67623	-1.112678056	0.09520585	-1.112678056	0.09520585
Hadha 97212	-1.112690885	0.105316282	-1.112690885	0.105316282
Dlat 235339	-1.11271352	0.301790856	1.115875043	0.253480367
Pop7 74097	-1.112887052	0.263120415	-1.050579951	0.385369415
Sccpdh 109232	-1.112892251	0.388346995	1.294136637	0.148074256
Lilra5 232801	-1.112912637	0.375775578	-1.468814834	0.113950942
Rbm47 245945	-1.112989136	0.342181553	-1.232569317	0.235020501
Erlin1 226144	-1.113044392	0.307975405	-1.369798337	0.019122428
Rab8b 235442	-1.11311066	0.385629168	-1.347192347	0.23014393
Tbccd1 70573	-1.113123403	0.164006586	-1.113123403	0.164006586
Selenbp2 20342	-1.113132509	0.398073734	-1.568755008	0.136152677
Ccz1 231874	-1.113222161	0.334243251	-1.113222161	0.334243251
Stx18 71116	-1.113253848	0.202446647	-1.113253848	0.202446647
Ntrk2 18212	-1.11330059	0.419060125	1.324251398	0.298690411
Shroom3 27428	-1.113328958	0.216339753	-1.243776443	0.02870958
Zfp523 224656	-1.113382568	0.243249368	-1.113382568	0.243249368
Dnajc19 67713	-1.113389438	0.246895029	-1.113389438	0.246895029
Ap1ar 211556	-1.113389825	0.336832916	1.220222648	0.111556157
Elov1 54325	-1.113600083	0.248989958	1.014066956	0.451084106
Zfp868 234362	-1.113631599	0.392222239	1.035863469	0.467742906
H2-Q6 110557	-1.113641368	0.299483957	1.006481709	0.486812659
Padi2 18600	-1.113644249	0.41421642	-1.147248567	0.382504897
Kcnj16 16517	-1.113654411	0.260440914	-1.347945206	0.013470644
Cacng1 12299	-1.113734611	0.436962391	1.820526892	0.173977924
Pcbd1 13180	-1.113779743	0.084236672	-1.173031938	0.005246178
Igf2bp2 319765	-1.113791759	0.315391909	-1.113791759	0.315391909
Slc12a9 83704	-1.113813944	0.251503077	-1.197014984	0.119176624
Lin37 75660	-1.113819901	0.284448195	-1.025554266	0.443911024
2700007P21Rik 212772	-1.11402108	0.360463761	-1.303566538	0.207081988
Ccdc125 76041	-1.114068266	0.251775512	-1.114068266	0.251775512
Pigo 56703	-1.114084326	0.210959201	-1.011105711	0.456397786
Phactr4 100169	-1.114102693	0.242100754	-1.080484105	0.278101146
Limk2 16886	-1.114141476	0.348548255	1.121097904	0.298552698
Srp54a 24067	-1.114197098	0.299096474	-1.043895774	0.422644677
St7 64213	-1.114246149	0.26215878	-1.265757551	0.062537619
Apoh 11818	-1.114311589	0.187835869	-1.224776373	0.002410226
Asah1 11886	-1.114337549	0.370209515	1.13988931	0.325746117
G3bp2 23881	-1.114410485	0.346718534	-1.036635755	0.43037128
Rxrg 20183	-1.114463113	0.322222584	-1.114463113	0.322222584
Bdh1 71911	-1.114466795	0.121856519	-1.070628542	0.221379428
Cope 59042	-1.114489245	0.220190321	1.00291048	0.487391157

Hgs 15239	-1.114619621	0.050311372	-1.08555292	0.101316807
Rhot1 59040	-1.114642578	0.194173113	-1.114642578	0.194173113
Cd80 12519	-1.114716062	0.451648716	3.286172748	0.091708258
Slc25a4 11739	-1.114934452	0.298510357	-1.037580914	0.428452184
Tmem30b 238257	-1.114991661	0.316589944	-1.29693586	0.12384731
Slc10a2 20494	-1.115015901	0.406700742	1.332386316	0.238370282
Mrpl16 94063	-1.115063344	0.151861617	-1.115063344	0.151861617
Alg5 66248	-1.11511115	0.090404329	-1.020333699	0.353729502
Mrps5 77721	-1.115155545	0.138991242	-1.048509849	0.28141885
Mrpl38 60441	-1.115261996	0.172978171	-1.192499245	0.038564276
Tlcd1 68385	-1.115285344	0.273465587	-1.115285344	0.273465587
Mau2 74549	-1.115311263	0.222977449	-1.115311263	0.222977449
Ifrd2 15983	-1.115382933	0.012720444	-1.082348911	0.015203205
Fam161a 73873	-1.115391161	0.385784906	-1.251049021	0.273154605
2610008E11Rik 72128	-1.115401256	0.401707912	1.245554265	0.298694359
Mrps18a 68565	-1.115418561	0.204338764	-1.115418561	0.204338764
3110002H16Rik 76482	-1.115439708	0.286812322	-1.235432729	0.10539683
Mov10 17454	-1.115603731	0.162532682	-1.097975059	0.136369799
Nt5dc1 319638	-1.115668705	0.367181478	1.315267625	0.111740721
Glod4 67201	-1.115733126	0.20631701	-1.1829533	0.117927209
Rpl30 19946	-1.115755573	0.089832785	-1.178669013	0.005031281
Mrpl1 94061	-1.115781648	0.285074747	1.051697781	0.34523326
Nags 217214	-1.115818028	0.162200317	-1.158265225	0.111904133
Bud13 215051	-1.115900442	0.245960695	-1.018648745	0.4498611
Tarbp2 21357	-1.115907818	0.197892521	-1.115907818	0.197892521
Ccdc97 52132	-1.115909391	0.163917273	-1.134904503	0.056330258
Mbd3 17192	-1.115941609	0.300888108	-1.273782517	0.124328081
Asxl1 228790	-1.115973691	0.272283313	-1.052404479	0.390071533
Serping1 12258	-1.11598166	0.172971012	-1.11598166	0.172971012
Lmbr1 56873	-1.11599785	0.363954796	-1.614474685	0.036164142
Prrg2 65116	-1.116016476	0.203253447	-1.196268756	0.093329136
Zfp498 666311	-1.116026554	0.376892358	-1.116026554	0.376892358
Gjb1 14618	-1.116159675	0.192876088	-1.214142051	0.053490258
Cul9 78309	-1.116269814	0.244397263	-1.116269814	0.244397263
Fbxw10 213980	-1.116286781	0.456834809	1	#DIV/0!
Scn4a 110880	-1.116286781	0.456834809	1	#DIV/0!
Kdelr3 105785	-1.116286781	0.456834809	1	#DIV/0!
Gpx2 14776	-1.116286781	0.456834809	1	#DIV/0!
Tmem215 320500	-1.116286781	0.456834809	1	#DIV/0!
D730005E14Rik 109361	-1.116286781	0.456834809	1	#DIV/0!
Ipo5 70572	-1.116352905	0.113440971	-1.137254054	0.03443302
Tanc2 77097	-1.11637934	0.401078244	-1.751491996	0.071732125
Cstf3 228410	-1.116394418	0.239501145	-1.116394418	0.239501145
Cd7 12516	-1.116403127	0.408171134	1.066433433	0.442314567
Spop 20747	-1.116480845	0.263241317	-1.048162464	0.291238775
Mis12 67139	-1.116492241	0.300746551	-1.116492241	0.300746551
Tmed10 68581	-1.116514726	0.029414511	-1.084849828	0.060758923
Tmem53 68777	-1.116669671	0.236531566	-1.200727338	0.031896508
Wars 22375	-1.116680568	0.248533635	-1.036490445	0.406752853
Rrp12 107094	-1.116695724	0.240177318	-1.238456333	0.077375668
Unc93b1 54445	-1.116704051	0.067622153	-1.142326697	0.049100808
Amotl1 75723	-1.116773324	0.210810335	-1.189698426	0.091179678
Rpl7 19989	-1.116806893	0.146927635	-1.061679211	0.269194786

Xpo1 103573	-1.116809298	0.232445782	-1.21967188	0.095284204
Cmtm8 70031	-1.116820538	0.067983532	-1.206962169	0.002891802
Mtch1 56462	-1.116860131	0.171861672	-1.212566718	0.036345097
Serpib8 20725	-1.116917567	0.303460264	-1.274795404	0.131000826
C230052112Rik 101831	-1.116966399	0.335109119	1.212485726	0.136502161
Trappc3 27096	-1.117048922	0.09968561	-1.235171833	0.001010217
Ppara 19013	-1.117083043	0.118529808	-1.043256599	0.253788758
Ehmt2 110147	-1.117140599	0.160616946	-1.165329868	0.050774779
2210411K11Rik 664968	-1.117170628	0.338622162	1.200558067	0.186209174
Dync1li2 234663	-1.117171038	0.267328946	1.017793448	0.450167145
Wdr45l 66840	-1.117206418	0.166442447	-1.117206418	0.166442447
Ddx19a 13680	-1.11729046	0.226448969	-1.208777952	0.105662939
Glipr2 384009	-1.117371647	0.417791125	-1.117371647	0.417791125
Heatr2 433956	-1.11749856	0.201493337	-1.11749856	0.201493337
Pcid2 234069	-1.117555517	0.167241688	-1.071279278	0.1709662
Ssr3 67437	-1.117629705	0.174645291	-1.030146857	0.373303343
Limk1 16885	-1.117732191	0.332530455	1.119414868	0.252462643
Igf1r 16001	-1.117804586	0.39161909	-1.399518427	0.224715379
Prodh2 56189	-1.117814045	0.246277712	-1.295586087	0.016988836
Aup1 11993	-1.117817817	0.203622552	-1.194657072	0.101576833
Strn4 97387	-1.1178207	0.243843398	-1.1178207	0.243843398
Lrrc41 230654	-1.117824975	0.160226114	-1.049613078	0.308138464
Gm13498 227885	-1.11786922	0.314499667	-1.005713667	0.490369901
Cfd 11537	-1.117929232	0.468955426	-2.8202	0.173296754
Fcer1g 14127	-1.117991094	0.288461544	-1.117991094	0.288461544
Sgta 52551	-1.118009885	0.119913874	-1.228849365	0.008690011
Rela 19697	-1.118086247	0.10966327	-1.143377558	0.027771886
Hdlbp 110611	-1.118235667	0.089789327	-1.070887144	0.181321
Ndr2 29811	-1.118271659	0.176611506	-1.216310549	0.039577327
Amh 11705	-1.118272848	0.435132612	1.018192343	0.490530101
Fam92a 68099	-1.118294675	0.334533804	-1.212920139	0.231654465
Acsm5 272428	-1.118298836	0.165275317	-1.27966975	0.003392185
Lman2 66890	-1.118306618	0.030506095	-1.118306618	0.030506095
Pak2 224105	-1.11851635	0.281369299	-1.361810609	0.020341498
Ppp2r3c 59032	-1.118541792	0.225910242	1.050650263	0.320624319
Tsg101 22088	-1.118561213	0.200605902	-1.118561213	0.200605902
Jub 16475	-1.118576707	0.287276714	1.03316087	0.419042905
Ppl 19041	-1.118617222	0.359243842	1.055781144	0.3932856
Cd33 12489	-1.11867306	0.454690003	-1.305244483	0.378399987
Rhbd1 214951	-1.118721254	0.355378637	1.031820344	0.438482947
3830406C13Rik 218734	-1.118853994	0.211437447	-1.002842533	0.487877475
Hpgd 15446	-1.118908696	0.268491953	-1.014936594	0.462832328
Fam38b 667742	-1.11891447	0.38785793	-1.00734791	0.492397667
Fah 14085	-1.118936212	0.154440105	-1.176278521	0.08116936
Akr1b8 14187	-1.119009192	0.322970217	-1.019592182	0.470233855
Snd1 56463	-1.119031485	0.218956001	-1.053345304	0.354927216
2510006D16Rik 76799	-1.119072948	0.084587625	-1.119072948	0.084587625
D930015E06Rik 229473	-1.119134376	0.126086274	-1.121073066	0.074362361
Oma1 67013	-1.119195609	0.286087705	-1.314624356	0.058635642
Ccdc127 67433	-1.119227608	0.12944888	-1.119227608	0.12944888
Sbf1 77980	-1.119330403	0.219861591	-1.054079518	0.360933687
Slc37a2 56857	-1.119375667	0.365359336	-1.375865193	0.125047615
Dhrs4 28200	-1.119426077	0.128437571	-1.119426077	0.128437571

Poldip2 67811	-1.119436999	0.128424945	-1.119436999	0.128424945
Fam53a 74504	-1.119521464	0.259950442	-1.261296473	0.083540126
Pfdn4 109054	-1.11955125	0.34614374	-1.367468815	0.134236468
Cand1 71902	-1.119586195	0.228944363	-1.228020726	0.086781707
Ythdc1 231386	-1.119649355	0.338660292	1.094450359	0.344233609
2810410L24Rik 100042332	-1.119701766	0.390881117	-1.918229861	0.013472978
Fam53b 77938	-1.119723365	0.233029282	-1.250126249	0.06092429
Stx16 228960	-1.119730534	0.300169456	1.033049304	0.397883278
Vill 22351	-1.119795517	0.386642708	-1.336006132	0.198731765
Spata2 263876	-1.119854733	0.252588263	1.085249797	0.207846437
Sumo1 22218	-1.119894918	0.259321875	-1.119894918	0.259321875
Tbx2 21385	-1.119925586	0.351854249	1.030591469	0.454699156
Usp16 74112	-1.119939465	0.319491984	-1.227663966	0.190252185
Ext1 14042	-1.120046461	0.177881134	-1.204330413	0.063679525
1300018J18Rik 223776	-1.120048575	0.216562971	-1.190017106	0.130241671
Pogz 229584	-1.120158085	0.293238205	-1.006957994	0.483310387
Psme2 19188	-1.12020238	0.362284952	1.011679186	0.4769713
1500002O20Rik 71997	-1.120228264	0.211901355	-1.120228264	0.211901355
Prpf4 70052	-1.120251262	0.252366725	-1.205348506	0.125696471
Ces1e 13897	-1.120275462	0.288347483	-1.297704987	0.017099651
Klf4 16600	-1.120288085	0.386150145	-1.411513943	0.208960691
Ccnd2 12444	-1.120344064	0.390155491	-1.127248857	0.380974524
Ube2j1 56228	-1.120379165	0.196764032	-1.208304354	0.079416978
Cyp4f15 106648	-1.120479694	0.236705849	-1.285102028	0.024358684
Dph2 67728	-1.120631325	0.328907642	1.173755311	0.219962008
Pi16 74116	-1.120639499	0.441669825	-1.581645013	0.312620442
Aebp1 11568	-1.120644876	0.411079166	-1.120644876	0.411079166
Bap1 104416	-1.120674402	0.161499799	1.008235911	0.460262594
Gys1 14936	-1.120687059	0.319624276	-1.278205848	0.113120004
Rrnad1 229503	-1.120750454	0.246144524	-1.042965897	0.394929665
Sfrp5 54612	-1.120830446	0.377816357	-1.20151509	0.275095866
Anxa7 11750	-1.120844763	0.21028128	-1.228298293	0.066689978
Arhgef16 230972	-1.120864797	0.375133176	1.137470391	0.352317177
Llgl2 217325	-1.12087657	0.089632227	-1.168293475	0.038567949
Kctd2 70382	-1.120924891	0.171750789	-1.041153185	0.347279844
Stam 20844	-1.120958159	0.366540253	-1.407412725	0.159644715
Pum1 80912	-1.120959134	0.221670436	-1.004999612	0.482024177
Celsr2 53883	-1.121040454	0.403316093	-2.018776862	0.000360338
Pde4d 238871	-1.121050579	0.350047045	1.056857202	0.425085697
Arhgap42 71544	-1.121151144	0.356623951	-1.096466413	0.369899751
Calm1 12313	-1.121171814	0.034529558	-1.07357186	0.056897095
Ppm1k 243382	-1.121259441	0.328189506	-1.053640658	0.406822385
Des 13346	-1.121293433	0.375013175	1.193024035	0.277546976
Mesdc2 67943	-1.121298227	0.242040948	-1.225246557	0.076592633
Slc35d2 70484	-1.121331725	0.201538662	-1.106050964	0.144065498
Acot13 66834	-1.121338002	0.290033446	-1.321450426	0.065652141
Tspan9 109246	-1.121386156	0.210894407	-1.057194397	0.299313326
Arhgef19 213649	-1.12144935	0.014744689	-1.080901424	0.015488771
Rian 75745	-1.12145379	0.432737273	-1.945954545	0.198949878
B3galnt2 97884	-1.121515267	0.250855677	-1.121515267	0.250855677
H2-T10 15024	-1.121736851	0.36387237	-1.11845961	0.334609079
Wfikn1 215001	-1.121743596	0.424947084	1.32508503	0.336299047
Dpcd 226162	-1.121822737	0.266126926	-1.121822737	0.266126926

Picalm 233489	-1.121846955	0.312568141	-1.121846955	0.312568141
Chmp1a 234852	-1.121880716	0.054149382	-1.121880716	0.054149382
Dpyd 99586	-1.121957115	0.359951851	-1.018005216	0.467709354
1300002K09Rik 74152	-1.121972681	0.113285918	-1.22449057	0.011678065
Pelp1 75273	-1.122099274	0.129305365	-1.183560076	0.035784467
Yes1 22612	-1.12225743	0.373952467	1.34243224	0.14304793
Ccdc77 67200	-1.122340225	0.364982218	-1.04443916	0.442129618
Amacr 17117	-1.122346032	0.14441648	-1.112669858	0.128639674
Gps1 209318	-1.122366285	0.214792411	-1.240349063	0.059564012
Kirrel 170643	-1.122413197	0.363517456	-1.122413197	0.363517456
Sirt6 50721	-1.122471411	0.3260399	-1.122471411	0.3260399
Zfp937 245174	-1.122558018	0.392333158	-1.337399206	0.221360425
Sltm 66660	-1.12265571	0.210408296	-1.007593303	0.470434448
Polr3d 67065	-1.122681868	0.25630204	-1.020255948	0.448104731
Ormdl3 66612	-1.122783985	0.090199469	-1.122783985	0.090199469
Odf2l 52184	-1.122823639	0.400869599	1.185489476	0.361115938
Mtrf1 211253	-1.122864442	0.263522989	-1.290848336	0.06210249
Arv1 68865	-1.122932958	0.337325636	1.051178635	0.425139543
Atxn1l 52335	-1.123101042	0.37125026	-1.099843164	0.38144427
Wdr53 68980	-1.123180513	0.287759952	-1.017357748	0.463830904
Zmym1 68310	-1.123182012	0.448325546	-2.093828795	0.230800024
Dgat2 67800	-1.123251752	0.036742491	-1.123251752	0.036742491
Sik3 70661	-1.123294896	0.215515343	1.055744049	0.284015502
Cpox 12892	-1.123329221	0.314576528	1.17050691	0.179855171
Mknk1 17346	-1.123422927	0.157818139	-1.188851554	0.055707375
Aldh1b1 72535	-1.123590546	0.271302789	-1.28234821	0.009032072
Cmtm6 67213	-1.123641299	0.277189031	1.00146929	0.496181233
Map2k3 26397	-1.123658819	0.077408054	-1.151540398	0.051130896
Smoc1 64075	-1.123698937	0.083074846	-1.022519515	0.327810163
Galns 50917	-1.123731748	0.28642357	-1.045962342	0.418980055
Sfn 55948	-1.123784775	0.313495221	-1.238936951	0.139951889
1700056E22Rik 73363	-1.123804584	0.416799005	-1.123804584	0.416799005
Qdpr 110391	-1.123832538	0.073871212	-1.026793734	0.271636516
Plk5 216166	-1.123836784	0.347453088	1.114140988	0.33253873
Gria3 53623	-1.123870601	0.352214085	1.173828244	0.216819089
Pgam1 18648	-1.123887364	0.240445556	-1.026979065	0.426711257
Tesk2 230661	-1.123914132	0.296573355	-1.25519318	0.118437698
Wdr20a 69641	-1.1239508	0.337118613	1.042488908	0.427309863
Naprt1 223646	-1.124068945	0.173965803	-1.102042999	0.181490349
2410002I01Rik 78777	-1.124118398	0.138245174	-1.072890226	0.246516663
Acpp 56318	-1.124144623	0.337717996	-1.32561556	0.166819216
Tmem201 230917	-1.124199024	0.164349834	-1.056792385	0.310655478
Smpdl3a 57319	-1.124238309	0.242425066	-1.1717565	0.1110096
Usp28 235323	-1.124268213	0.38633496	-1.114026526	0.383537011
41156 18952	-1.124395976	0.281750109	-1.437746096	0.010492798
Hgsnat 52120	-1.124434655	0.231114065	-1.124434655	0.231114065
Hspa12a 73442	-1.1244509	0.407447216	-1.1244509	0.407447216
4732418C07Rik 230648	-1.124488451	0.332846823	-1.036605113	0.41383104
Pdk2 18604	-1.124512013	0.042556946	-1.124512013	0.042556946
Ldb2 16826	-1.124544709	0.392030863	1.214013749	0.317406409
Sigmar1 18391	-1.124546607	0.065114763	-1.067245027	0.123941211
Rnpep 215615	-1.124548317	0.288523875	-1.010427342	0.475070477
Zfp9 22750	-1.124555529	0.381171211	-1.618341986	0.084473199

Ndufa9 66108	-1.124581645	0.023054505	-1.156298187	0.008761736
1700123O20Rik 58248	-1.124733189	0.203040389	-1.124733189	0.203040389
Zfp592 233410	-1.124746463	0.070905755	-1.091746311	0.133147052
Gnpda1 26384	-1.124792522	0.192608251	-1.124792522	0.192608251
Top1mt 72960	-1.124929468	0.217850178	-1.124929468	0.217850178
Itpripl1 73338	-1.125003322	0.225702221	-1.236753799	0.046299551
Dnajb4 67035	-1.125088974	0.327551046	-1.281840232	0.190248173
Cse1l 110750	-1.125107954	0.155329312	-1.125107954	0.155329312
Pmpca 66865	-1.125198444	0.067129275	-1.203751584	0.001074403
Zxdc 80292	-1.125213459	0.125373738	-1.054711518	0.25767408
Eif4g3 230861	-1.125252225	0.273089164	-1.004227368	0.490719753
Pccb 66904	-1.125259315	0.023607845	-1.129813196	0.000541698
Ttc39b 69863	-1.125282672	0.364049913	-1.020403321	0.474559715
Timd2 171284	-1.125300192	0.163485541	-1.055343428	0.306536612
Uros 22276	-1.125381256	0.212892509	-1.125381256	0.212892509
Cela1 109901	-1.125468955	0.294622782	-1.263825226	0.105675005
Flywch1 224613	-1.125488933	0.257342245	-1.077467793	0.289277978
Med24 23989	-1.125491115	0.165597179	-1.091983527	0.155129886
1110012L19Rik 68618	-1.125517743	0.299899435	-1.108637697	0.224855277
Pisd-ps3 66776	-1.125577849	0.384968935	-1.125577849	0.384968935
Pwwp2a 70802	-1.125600654	0.386651969	1.392530321	0.164976997
Glis2 83396	-1.125605107	0.399446701	1.115665165	0.414499317
Cpsf4l 52670	-1.125681895	0.32120439	-1.07139176	0.311755118
Arhgap1 228359	-1.125763773	0.209078025	-1.125763773	0.209078025
Extl3 54616	-1.12577859	0.153863163	-1.279193807	0.007252194
Zfp36l2 12193	-1.125819025	0.359654059	-1.125819025	0.359654059
6430573F11Rik 319582	-1.125856171	0.382569413	1.211482761	0.292589443
Cyp4f13 170716	-1.125873038	0.115715258	-1.074087255	0.218147672
Il15 16168	-1.125875868	0.432950309	-1.125875868	0.432950309
Nit1 27045	-1.125876408	0.098111017	-1.083338137	0.186265117
Ywhag 22628	-1.125968422	0.316901894	1.05594067	0.39998909
Sgsh 27029	-1.125970547	0.245776959	-1.030133208	0.423441428
Enpep 13809	-1.125977706	0.33186084	-1.125977706	0.33186084
Aldh3b2 621603	-1.126026437	0.444041762	-2.228922062	0.156240191
Nus1 52014	-1.126055695	0.315048459	-1.127754876	0.258897602
Phgdh 236539	-1.126075381	0.440456384	1.823071741	0.250512967
Runx2 12393	-1.126077601	0.440378648	-1.189393939	0.435388966
Ccdc47 67163	-1.126123449	0.258872635	1.010862485	0.470803909
Fgfrl1 116701	-1.126126764	0.279863732	1.004338821	0.490719026
Ube3a 22215	-1.126146512	0.283548651	-1.016684751	0.468019769
Fdxr 14149	-1.126241524	0.136554157	-1.18270796	0.054750624
Ell2 192657	-1.126283977	0.32143879	1.053080393	0.410792135
41158 56526	-1.126326186	0.373372685	-1.500607186	0.133601921
Fbxo46 243867	-1.126388829	0.22002063	-1.124187172	0.194502338
lrak1bp1 65099	-1.126416032	0.431176197	1.019949115	0.487108385
Cdkn2c 12580	-1.12643792	0.270245714	-1.410169777	0.016325183
Fam134a 227298	-1.12651328	0.03657762	-1.14867282	0.005154056
Farsa 66590	-1.126587603	0.153905131	-1.160788747	0.051279427
Dlst 78920	-1.126601608	0.150340143	-1.000226837	0.498956496
Topors 106021	-1.126622248	0.287482158	-1.089008123	0.262521427
Pcmt1 319263	-1.126686644	0.046842232	-1.155745573	0.029570082
2210016L21Rik 72357	-1.126695527	0.223668763	-1.244269753	0.078158961
Mll2 381022	-1.126699203	0.262241653	-1.038289945	0.391697677

P2ry6 233571	-1.126700443	0.342552256	-1.345837425	0.166561399
lvd 56357	-1.12671613	0.040366786	-1.162761661	0.001571457
Tmcc3 319880	-1.126811529	0.353393628	1.094152911	0.380857143
Cbx7 52609	-1.126843374	0.273526756	-1.126843374	0.273526756
Gm14057 100043766	-1.126864877	0.399941675	-2.054662098	0.009452415
Rrp7a 74778	-1.126871006	0.175595994	-1.048103126	0.334338868
Ap3m1 55946	-1.126944567	0.211925013	-1.093963083	0.21797025
Dusp19 68082	-1.126947809	0.326658168	-1.294344714	0.125686807
Glul 14645	-1.126956041	0.226215396	-1.066497868	0.206249765
Polr1b 20017	-1.12699484	0.23448992	-1.23012049	0.112551958
Cyfp1 20430	-1.127053667	0.245302895	-1.039856609	0.404218614
Rsb1 242860	-1.127159017	0.419620129	-1.127159017	0.419620129
5730419I09Rik 74741	-1.127264448	0.394440386	-1.867827307	0.061123356
Scaf8 106583	-1.127318484	0.278996746	-1.04845074	0.386904707
Gng11 66066	-1.127342473	0.316116521	1.002517909	0.496045375
Mtus2 77521	-1.127433032	0.400150048	-1.127433032	0.400150048
Nipal2 223473	-1.127461982	0.454906509	3.53972	0.173296754
Dars 226414	-1.127550093	0.288375687	1.132476057	0.206159911
1810058I24Rik 67705	-1.127598377	0.255366172	-1.240389174	0.128755357
Cfh 12628	-1.127672517	0.316403156	-1.420271729	0.043443876
Prss23 76453	-1.127676141	0.349245418	-1.299564707	0.171055652
Htra2 64704	-1.127712703	0.211943852	-1.127712703	0.211943852
Col14a1 12818	-1.127736316	0.123632467	-1.086516376	0.138004321
Iffo2 212632	-1.127804076	0.259254165	-1.226585335	0.120721515
3110052M02Rik 73229	-1.127910262	0.327950949	1.177739464	0.225237487
Iqcb1 320299	-1.128081344	0.378656038	-1.128081344	0.378656038
Nudt8 66387	-1.128085126	0.254076532	-1.128085126	0.254076532
Ski 20481	-1.128101976	0.189810251	1.031521568	0.368635938
9430020K01Rik 240185	-1.128160362	0.348681407	-1.137279303	0.32665195
Cuedc2 67116	-1.128177954	0.306465385	-1.167453968	0.174224216
Cep120 225523	-1.128306815	0.31180533	1.051256965	0.406624165
Txnrd2 26462	-1.128318073	0.131349949	-1.101840888	0.197066097
Abhd6 66082	-1.128365865	0.146869219	-1.209001155	0.04768349
Ripk4 72388	-1.128428711	0.324543843	-1.128428711	0.324543843
Pecr 111175	-1.128505933	0.1299312	-1.205986703	0.037037772
Nkap 67050	-1.128738511	0.303642123	1.035313616	0.433799624
Rnf166 68718	-1.128784369	0.185433074	-1.300619521	0.016943857
Eaf2 106389	-1.128859423	0.430027993	-1.128859423	0.430027993
Clptm1 218335	-1.12886586	0.197107704	-1.239002972	0.059371039
Nipsnap1 18082	-1.128874078	0.047244043	-1.097555029	0.053651095
Fgfr4 14186	-1.1289507	0.170698167	-1.139634812	0.08148461
Eftud1 101592	-1.129121707	0.172129495	-1.129121707	0.172129495
Gabra3 14396	-1.12920245	0.40716763	1.126302435	0.418408492
Sharpin 106025	-1.129225701	0.116452169	-1.082482271	0.210114625
Dcaf5 320808	-1.129250124	0.096507923	-1.129250124	0.096507923
Coq10a 210582	-1.129308668	0.169026224	-1.221296418	0.026329177
Nfy 18044	-1.129545515	0.251835634	-1.129545515	0.251835634
Lrrc39 109245	-1.129557327	0.41051774	-1.650632238	0.134162752
Slc30a10 226781	-1.129628991	0.299279137	-1.303483068	0.129686319
Nudt9 74167	-1.129709503	0.101443516	-1.245354641	0.00100383
Zfp873 408062	-1.129749119	0.441537052	-1.129749119	0.441537052
Nbr1 17966	-1.129776754	0.293596255	1.125211054	0.250815401
Serinc1 56442	-1.129782912	0.33235311	-1.129782912	0.33235311

Glt1d1 319804	-1.129801618	0.365265222	-1.129801618	0.365265222
Fen1 14156	-1.129900684	0.302809548	-1.278905045	0.111578371
Alas1 11655	-1.130041562	0.222710686	-1.130041562	0.222710686
1500017E21Rik 668215	-1.130066888	0.395422724	-1.020189479	0.48121753
Lpar1 14745	-1.130143443	0.383129466	1.059119282	0.43821345
Ppp1r18 76448	-1.130178541	0.243659805	-1.130178541	0.243659805
Ruvbl2 20174	-1.130241338	0.237985391	-1.071462788	0.346371804
Mon2 67074	-1.130337815	0.251753051	1.096515409	0.215717819
Antxr1 69538	-1.130345595	0.415601497	-1.752038658	0.191487955
Lasp1 16796	-1.130480782	0.139934316	-1.287232195	0.002596342
Capn2 12334	-1.130490125	0.223904224	-1.040372246	0.398920366
Atp13a2 74772	-1.130514872	0.19814597	-1.208952855	0.052928921
Lrp4 228357	-1.130552182	0.208862533	1.04719127	0.323786483
Suds3 71954	-1.130589331	0.166091893	-1.240051446	0.030951579
Tsen34 66078	-1.130623147	0.214952143	-1.20047626	0.028825672
Dicer1 192119	-1.130713897	0.202197283	-1.350738766	0.002303581
Sumf2 67902	-1.130746292	0.223865016	-1.024011557	0.42803851
Jak2 16452	-1.130899384	0.319288304	1.093769784	0.321380968
Gls2 216456	-1.130918135	0.069900744	-1.13649974	0.036734385
Dnajc30 66114	-1.130932334	0.17047947	-1.130932334	0.17047947
Eml1 68519	-1.130986167	0.368186032	1.30872247	0.182853821
Zfyve26 211978	-1.131060466	0.331396481	-1.570035714	0.026315579
Cdkn1c 12577	-1.131210948	0.236877891	-1.131210948	0.236877891
Cdk18 18557	-1.131218402	0.066005687	-1.046601969	0.233840576
Eps8 13860	-1.131229967	0.427901796	-1.644270328	0.270433406
Lman1 70361	-1.131456962	0.044442818	-1.083157072	0.088544579
Wnt2 22413	-1.13147936	0.210724132	-1.211227132	0.095401491
Tmprss6 71753	-1.131571288	0.03268833	-1.178805421	0.005921013
B4galnt1 14421	-1.131575439	0.220041315	-1.131575439	0.220041315
Lrch4-sap25 100316903	-1.131610871	0.169214936	-1.058738541	0.318419768
Samd1 666704	-1.131637643	0.213219738	-1.149769885	0.090044964
C330006K01Rik 231855	-1.131707227	0.120907551	-1.131707227	0.120907551
Ict1 68572	-1.131848388	0.254667868	-1.388194332	0.019480607
Tial1 21843	-1.131951776	0.095305643	-1.246331324	0.006555651
Cxadr 13052	-1.131984789	0.34164743	1.230380257	0.194503668
Dmgdh 74129	-1.132020887	0.178927827	-1.031132766	0.355050903
Ttll1 319953	-1.132067005	0.177671394	-1.056500986	0.331449043
Pias2 17344	-1.132215649	0.280646704	1.128969837	0.199752741
Ankrd10 102334	-1.132271221	0.306580946	-1.265292231	0.188077619
Cabin1 104248	-1.132346499	0.168469077	-1.132346499	0.168469077
Arl6ip1 54208	-1.132400874	0.120602634	-1.270309539	0.004775009
Tbcd 108903	-1.13273972	0.180090626	-1.268095699	0.01813744
Muc6 353328	-1.132764579	0.409235304	1.007102402	0.493733054
Wdr48 67561	-1.132817562	0.261191341	-1.026156017	0.441085841
Pold4 69745	-1.132829847	0.210668731	-1.124005296	0.131947371
Herc3 73998	-1.132836703	0.365930847	-1.252004459	0.24414955
Gpc4 14735	-1.132891744	0.139985176	-1.059605294	0.276526474
Hecw2 329152	-1.132927831	0.398729011	-1.132927831	0.398729011
Drg2 13495	-1.132928995	0.162007103	-1.26593806	0.017390833
1110018J18Rik 66129	-1.132956573	0.347894294	-1.073267078	0.399659848
Mknk2 17347	-1.132981174	0.120697106	-1.034554669	0.348835999
Rnf187 108660	-1.133026941	0.022812895	-1.125015077	0.010125195
Akr1e1 56043	-1.133090505	0.102992686	-1.058586529	0.215383369

Edem2 108687	-1.133129162	0.232852816	-1.040165504	0.382494085
Zadh2 225791	-1.133235519	0.15269846	-1.052086533	0.312089591
Cbx4 12418	-1.133239343	0.28530537	-1.329331267	0.087897154
Ndel1 83431	-1.133388397	0.174259895	-1.174898071	0.136871923
Chd8 67772	-1.133388887	0.049750547	-1.184657505	0.012368138
Mettl3 56335	-1.133404913	0.259434802	-1.260827223	0.079376338
P2rx3 228139	-1.133530261	0.352604036	-1.665530874	0.040568207
Satb1 20230	-1.133804209	0.415712326	-1.133804209	0.415712326
Ift140 106633	-1.133833197	0.321026498	-1.105935377	0.326258901
Zzef1 195018	-1.13383445	0.188664434	-1.028670513	0.400253453
Dhx38 64340	-1.133845093	0.149721806	-1.065401843	0.214685875
Rbm34 52202	-1.133845728	0.279307274	-1.129661636	0.316815431
Robo4 74144	-1.133857089	0.058058133	-1.231665106	0.001786416
Pdcd5 56330	-1.133864656	0.335821537	-1.22850766	0.221966621
Rab11fip5 52055	-1.133932651	0.354784095	-1.178328877	0.236343899
Lypla2 26394	-1.134014952	0.158642212	-1.292138796	0.014282199
Marcks1 17357	-1.134034798	0.228439274	-1.155911082	0.115653086
Gopc 94221	-1.13403967	0.334122835	1.111648637	0.324407348
Ucp2 22228	-1.134041556	0.25618736	-1.046814205	0.3930023
Arid4a 238247	-1.134076018	0.382385738	1.315153646	0.17988282
Klhl26 234378	-1.134087957	0.175994304	-1.222455321	0.072223854
Ppp2r2a 71978	-1.134106939	0.115665685	-1.063282711	0.236358331
9930021J03Rik 240613	-1.134199039	0.331656342	-1.165743064	0.282376115
Pth1r 19228	-1.134343991	0.300989835	-1.430711876	0.026677631
Ufsp1 70240	-1.134416947	0.346578075	-1.450486524	0.11633724
Zfp39 22698	-1.134436482	0.250258803	-1.114721453	0.170786184
Ddx56 52513	-1.134446893	0.154539733	-1.134446893	0.154539733
Cald1 109624	-1.134453455	0.263693071	1.065567391	0.193706179
Sod2 20656	-1.134455384	0.088347799	-1.187564764	0.038168919
BC013529 215751	-1.134522463	0.25196419	-1.134522463	0.25196419
Tagln 21345	-1.134567987	0.393103596	1.411834307	0.13754153
Lamp1 16783	-1.134576682	0.062135531	-1.234075732	0.002463852
Eif3m 98221	-1.134651232	0.159317055	-1.119644885	0.117312518
Tfg 21787	-1.134658575	0.179585919	-1.034061695	0.372547064
Kcnk13 217826	-1.134700727	0.442200703	-2.496202829	0.207457753
Tfdp2 211586	-1.134701381	0.275741749	-1.167143032	0.18380289
Mapk14 26416	-1.134762495	0.232813641	1.085569863	0.204252517
Brd8 78656	-1.134813166	0.333549781	-1.355632656	0.160976795
Ints12 71793	-1.134857469	0.217269675	-1.244394625	0.054475778
Bbs9 319845	-1.134942183	0.338442441	-1.134942183	0.338442441
Pip4k2c 117150	-1.134951122	0.133948692	-1.13668734	0.114959675
2810407C02Rik 69227	-1.134993435	0.291270311	-1.088930128	0.330290738
E130311K13Rik 329659	-1.135012697	0.273947508	-1.201811947	0.199900593
Cdc5l 71702	-1.135061149	0.317842351	1.181796143	0.205550982
Ndst2 17423	-1.135086548	0.233550711	-1.135086548	0.233550711
Ext2 14043	-1.135149886	0.180104057	-1.135149886	0.180104057
Zfp11 22648	-1.135152291	0.416112499	-1.135152291	0.416112499
Snx30 209131	-1.135282204	0.376661892	-1.589116332	0.122662349
Csde1 229663	-1.135357328	0.027881508	-1.214998647	0.000524543
1700081L11Rik 76719	-1.135374459	0.287652886	-1.135374459	0.287652886
Rnf146 68031	-1.135410794	0.24740996	-1.135410794	0.24740996
Plec 18810	-1.135411049	0.077294351	-1.220003009	0.003784441
Ppp1r13l 333654	-1.135465388	0.298338402	1.007138274	0.485922963

Tbl3 213773	-1.135595993	0.142860807	-1.135595993	0.142860807
Mtx3 382793	-1.135671118	0.368599817	1.257777487	0.184938428
Clic4 29876	-1.135783283	0.321278796	-1.162836788	0.268909974
Actn4 60595	-1.135797823	0.018855934	-1.214593534	2.30107E-05
2610019F03Rik 72148	-1.135832839	0.139687043	-1.135832839	0.139687043
C4a 625018	-1.135845454	0.326526085	-1.359778348	0.145729952
Ramp1 51801	-1.135860868	0.292716833	-1.135860868	0.292716833
Clec4f 51811	-1.135972968	0.221955618	-1.135972968	0.221955618
Ctage5 217615	-1.13598336	0.204133724	-1.039880344	0.382224779
Dgcr8 94223	-1.136004942	0.338451015	-1.203766156	0.245837124
Zfp213 449521	-1.136013073	0.278507212	1.127311041	0.197296125
Alkbh4 72041	-1.136014392	0.203962351	-1.108755922	0.216000747
Trip4 56404	-1.136139703	0.147567084	-1.318411841	0.001289949
Acvr2a 11480	-1.13619607	0.348586936	1.263451001	0.183831868
Amotl2 56332	-1.136391865	0.305742077	-1.312231623	0.150575008
Os9 216440	-1.13646632	0.046684819	-1.100268224	0.094214127
Lace1 215951	-1.136504701	0.186621635	-1.136504701	0.186621635
Tmem175 72392	-1.136515943	0.182054503	-1.320335468	0.006694627
Cd47 16423	-1.136564639	0.24176416	-1.256388617	0.113305126
Fbp1 14121	-1.136578773	0.154473216	-1.136578773	0.154473216
Mprip 26936	-1.136697182	0.163408163	-1.230984955	0.025855795
Caprin1 53872	-1.136731466	0.26586932	1.049807569	0.343544053
N6amt1 67768	-1.136752801	0.265344682	1.106439808	0.24323116
Rnf5 54197	-1.136771281	0.03074469	-1.136771281	0.03074469
Ube3c 100763	-1.136783184	0.188719667	-1.346338388	0.006334173
Dnttip2 99480	-1.13678519	0.1728709	-1.334893702	0.001425654
Pcsk5 18552	-1.136819893	0.271293872	-1.01089869	0.475815053
Rnf169 108937	-1.13682626	0.160413894	-1.13682626	0.160413894
Rint1 72772	-1.13693711	0.221004285	-1.39921739	0.002459546
Setd5 72895	-1.136949665	0.262038377	-1.083249257	0.310666388
Srp72 66661	-1.136983619	0.217626623	-1.227359358	0.120246846
2500003M10Rik 66511	-1.137077856	0.085509541	-1.027550144	0.331851539
Fkbp15 338355	-1.137098494	0.129058564	-1.067204218	0.259274221
Cd151 12476	-1.137141601	0.117243566	-1.137141601	0.117243566
Dhx34 71723	-1.13721451	0.201669412	-1.327683762	0.021208375
BC089597 216454	-1.137218912	0.108979007	-1.286271223	0.001248067
Bmp1 12153	-1.137238064	0.057094132	-1.14071815	0.015515601
C130039O16Rik 238317	-1.137248371	0.384226268	1.035228152	0.431137784
Plscr3 70310	-1.137537784	0.174806103	-1.137537784	0.174806103
Herc4 67345	-1.137565625	0.300803871	-1.167315669	0.204743749
Cst3 13010	-1.137571622	0.174194932	-1.350184009	0.000998549
Cyp2j6 13110	-1.137719803	0.168259618	-1.137719803	0.168259618
C330007P06Rik 77644	-1.137886397	0.369379614	-1.247662714	0.236442985
Hbxip 68576	-1.137955079	0.231935362	-1.137955079	0.231935362
Cdh5 12562	-1.137967664	0.174840879	-1.253438053	0.040897929
1810049H13Rik 66431	-1.138037118	0.21183949	-1.241595292	0.062348279
Mgst1 56615	-1.138282212	0.26965	-1.138282212	0.26965
Nars 70223	-1.138329394	0.222475839	-1.138329394	0.222475839
Faf2 76577	-1.13841892	0.071239373	-1.141479757	0.036816688
Ces1c 13884	-1.138443306	0.184058995	-1.338958534	0.005307786
Snx2 67804	-1.138560941	0.230954597	-1.138560941	0.230954597
Prr13 66151	-1.138626994	0.077329067	-1.076464273	0.157970374
Spna2 20740	-1.138686237	0.180734699	-1.20338617	0.055571186

Creg1 433375	-1.138699504	0.058497032	-1.160213469	0.003809097
Snx15 69024	-1.138753953	0.171167369	-1.197507558	0.095241481
Mnd1 76915	-1.138773058	0.389966684	1.041609332	0.460637096
Plekha7 233765	-1.138872749	0.332723898	1.051513129	0.415366679
Scap 235623	-1.138936319	0.141076862	-1.176408607	0.039828773
Tmem108 81907	-1.138951612	0.397517401	1.206106086	0.360232862
Dgcr2 13356	-1.138972115	0.040957329	-1.154258796	0.006724435
Slc26a6 171429	-1.138994658	0.364268792	-1.138994658	0.364268792
Unk 217331	-1.139016564	0.18893093	1.022761231	0.422264164
Mrps15 66407	-1.139030439	0.186826937	-1.051334367	0.347004821
Lrrc56 70552	-1.139080883	0.286235627	-1.159133865	0.181514106
Nipa1 233280	-1.139122715	0.449250775	1	#DIV/0!
Chn2 69993	-1.139156463	0.110172277	-1.217995702	0.011102694
Gpr19 14760	-1.139331363	0.336674517	1.028612008	0.464411275
Rad23b 19359	-1.139349768	0.270835945	-1.265772955	0.149848559
Tymp 72962	-1.139359998	0.118288414	-1.112948743	0.081479642
Paccin3 80708	-1.139409999	0.120396599	-1.139409999	0.120396599
Add3 27360	-1.13946068	0.330871943	1.051589876	0.413918428
Clk3 102414	-1.13955587	0.028013517	-1.126017594	0.004455933
Derl3 70377	-1.139639724	0.412234677	1.540420252	0.205546211
Fbxl12 30843	-1.139761104	0.259561324	-1.146601891	0.208542528
Cdv3 321022	-1.139781128	0.032323367	-1.143695355	0.010437247
Gramd1b 235283	-1.139872053	0.356717025	1.048286062	0.438896362
Fam38a 234839	-1.139907233	0.314705659	-1.139907233	0.314705659
Fut8 53618	-1.13992178	0.326246048	-1.09385036	0.284946527
Plagl2 54711	-1.139940726	0.291000666	-1.385071792	0.063855255
Lysmd3 80289	-1.140210788	0.396383829	1.566306725	0.136377964
Kat2a 14534	-1.140385264	0.155588335	-1.210378458	0.081839968
Cdk20 105278	-1.140417439	0.213205444	1.000904151	0.496603461
Zfp748 212276	-1.140505828	0.376119548	-1.775545616	0.048946904
Ehd1 13660	-1.140552534	0.13277586	-1.227470992	0.016291718
Zfp617 170938	-1.140568581	0.312097831	1.051010115	0.417171428
Ednra 13617	-1.140626544	0.315256149	-1.309420458	0.125081933
Nmt1 18107	-1.140680744	0.125872418	-1.025289167	0.38664493
Cobll1 319876	-1.140713966	0.365933938	1.227555901	0.242718978
Neo1 18007	-1.140750078	0.240752249	-1.140750078	0.240752249
Zfp12 231866	-1.140794759	0.299879454	-1.318240157	0.145665051
Ccnk 12454	-1.14082213	0.160353379	-1.067674932	0.30090779
Creb3l2 208647	-1.140913711	0.293117826	1.153042304	0.197781944
Snx4 69150	-1.140920587	0.230211707	-1.140920587	0.230211707
Ascc3 77987	-1.141003448	0.370346986	-1.471901734	0.183331372
Mob3c 100465	-1.141018611	0.206321021	-1.008072812	0.471016644
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Dab2ip 69601	-1.141296449	0.230729621	-1.243302741	0.093033739
Parp6 67287	-1.141393929	0.219523713	-1.191263034	0.178016689
Prrc2b 227723	-1.141472975	0.184230462	-1.014996824	0.435373717
Daam1 208846	-1.141553059	0.290636539	1.021979492	0.430452412
Mib2 76580	-1.141554356	0.135188963	-1.239229829	0.029473841
Harbi1 241547	-1.141557987	0.187351622	-1.086259438	0.29798126
Sdc2 15529	-1.141564122	0.054619655	-1.141564122	0.054619655
Sh3bp4 98402	-1.141568873	0.381726151	-1.710439162	0.102883955
Pmepa1 65112	-1.141587214	0.346818747	-1.617651277	0.032637354
Tstd1 226654	-1.141623219	0.335910819	-1.530611218	0.054929859

Mup3 17842	-1.141654677	0.290551453	-1.016486525	0.469909517
Rxbj 20182	-1.141718617	0.102648269	-1.263815556	0.000607395
Eif4g1 208643	-1.142025136	0.107225448	-1.219907386	0.01212509
Cryab 12955	-1.142463382	0.243029613	-1.300765861	0.078616841
Rhbdd2 215160	-1.142574976	0.143723157	-1.228837359	0.050998899
Cdk8 264064	-1.142630116	0.178937195	1.026987645	0.395632546
Flot2 14252	-1.142685233	0.033624406	-1.149294944	0.001583992
Ptcd2 68927	-1.142747416	0.192757352	-1.250372309	0.075204349
Tlk1 228012	-1.142841931	0.274365503	-1.319011337	0.107513527
Stk11ip 71728	-1.142885738	0.24671177	-1.142885738	0.24671177
Lama5 16776	-1.142890685	0.339606624	1.086698897	0.390104068
Arl4c 320982	-1.142892769	0.31976724	-1.315738595	0.132380239
Trip10 106628	-1.142903005	0.155782167	-1.142903005	0.155782167
Ap3b1 11774	-1.142947672	0.229491283	1.058978882	0.339951412
Mup4 17843	-1.142993497	0.335173381	-1.142993497	0.335173381
Fxyd5 18301	-1.143004711	0.33343068	-1.208470295	0.135523872
Usp21 30941	-1.143224492	0.251200073	1.065722486	0.342274469
Ercc5 22592	-1.143232436	0.239356033	-1.092277851	0.277407316
Trub1 72133	-1.143400717	0.22079009	-1.26556991	0.049698401
Zcwpw1 381678	-1.14344808	0.242482606	1.075230772	0.308714907
Gldc 104174	-1.143463079	0.087179321	-1.210788187	0.026445302
Stau1 20853	-1.143477913	0.128352312	-1.111699134	0.111728869
Cox8a 12868	-1.143501496	0.160641724	-1.155467148	0.023322134
Edem1 192193	-1.143638407	0.130346612	-1.214204026	0.05891254
Reep2 225362	-1.143658515	0.423179243	-1.388175758	0.348733614
Zfp362 230761	-1.143789153	0.227718972	1.088858898	0.19298302
Cops7a 26894	-1.143871356	0.06999339	-1.198166329	0.027261198
Zfp719 210105	-1.143955518	0.305903155	1.043258344	0.411875818
Ahnak 66395	-1.143958384	0.296065052	1.02518847	0.448162695
3110001D03Rik 66928	-1.144035943	0.23735536	-1.097382393	0.153065078
Spns2 216892	-1.144054399	0.197551291	-1.069175644	0.328930045
Dhx15 13204	-1.144059018	0.372788889	1.218797108	0.29202777
Tmem126b 68472	-1.144100593	0.251300083	-1.281697775	0.067207804
Eci1 13177	-1.144148932	0.110125136	-1.193258177	0.067812473
Mdh2 17448	-1.144155083	0.120681014	-1.19746712	0.072325862
Hat1 107435	-1.144192351	0.207015357	-1.182200401	0.088317863
Ddx20 53975	-1.144222915	0.289099703	-1.282910264	0.12610188
Rnf181 66510	-1.144341223	0.074966186	-1.13762249	0.041353942
Man2b1 17159	-1.144356982	0.101480992	-1.144356982	0.101480992
Secisbp2 70354	-1.144447257	0.387821351	1.354448678	0.209879511
Btla 208154	-1.144506226	0.40952252	-1.744207205	0.204556877
Smg6 103677	-1.144509748	0.061667771	-1.152912406	0.025950902
Dnajb12 56709	-1.14456848	0.230409748	-1.14456848	0.230409748
Anapc2 99152	-1.144686246	0.092410776	-1.073827767	0.190377298
Galnt2 108148	-1.144759868	0.107653707	-1.091177086	0.199637125
Mpi 110119	-1.144777931	0.135447941	-1.187096385	0.090640808
Prr5 109270	-1.144819067	0.129205382	-1.217967285	0.055503714
Gm5801 545056	-1.144827366	0.216339239	-1.144827366	0.216339239
Csf2ra 12982	-1.144852634	0.183380067	1.028282128	0.392904514
Bmper 73230	-1.144865632	0.364954544	1.147114806	0.355397339
Zfp597 71063	-1.144873458	0.377187305	1.37991754	0.196734113
Gucy1b3 54195	-1.144890383	0.345397087	-1.144890383	0.345397087
Wrnip1 78903	-1.144944016	0.305636627	-1.239920753	0.171477914

LOC100048885 100048885	-1.145049105	0.308750643	1.028810918	0.447064484
Wdr73 71968	-1.145139514	0.188216301	-1.045663913	0.370544019
Brpf1 78783	-1.145177851	0.287692563	-1.145177851	0.287692563
Agphd1 235386	-1.145202691	0.14774681	-1.209772931	0.017186641
Sec14l1 74136	-1.145273336	0.139210735	-1.317692475	0.005200871
Slc25a42 73095	-1.145306871	0.179663175	-1.219015416	0.106133929
Arhgef15 442801	-1.145429696	0.110213413	-1.090114463	0.109995281
Lrrc4c 241568	-1.145492174	0.38160925	1.037918822	0.464623131
Triobp 110253	-1.145503714	0.140511326	-1.004119465	0.482316056
Dgka 13139	-1.145546634	0.247674085	-1.040273236	0.413873265
Zfp507 668501	-1.145884764	0.373993639	-1.000287516	0.49960416
Akap10 56697	-1.14589903	0.228114245	1.057886726	0.34439983
Jak1 16451	-1.145908976	0.184119564	-1.145908976	0.184119564
Mfsd1 66868	-1.145970412	0.192854234	-1.145970412	0.192854234
Elavl1 15568	-1.146003141	0.18094289	-1.226380314	0.074793123
Rbck1 24105	-1.14603018	0.079534762	-1.029601669	0.315653904
Zcchc7 319885	-1.146087134	0.077051889	-1.103308073	0.145262518
Ccdc17 622665	-1.146204844	0.330758665	1.286104704	0.080442928
8430427H17Rik 329540	-1.146487924	0.363928704	-1.369979024	0.177288338
Pcgf3 69587	-1.146548297	0.33627721	1.257463855	0.173022365
1700034H15Rik 98736	-1.146708542	0.41153122	-1.119758182	0.433120414
Atad3a 108888	-1.146714778	0.044320466	-1.132128124	0.021137268
Prmt6 99890	-1.146719367	0.269224257	-1.482388997	0.015656614
Ssh1 231637	-1.146735065	0.261476003	-1.242569371	0.133274251
Zfp524 66056	-1.146792524	0.233748104	-1.40664698	0.017966376
Plekhj1 78670	-1.146922707	0.212229521	-1.277862593	0.075376998
Ppib 19035	-1.146955288	0.284014477	1.027940229	0.446549547
Tbck 271981	-1.147036728	0.410030439	1.33785939	0.324957439
Kcnk5 16529	-1.147297427	0.221067818	-1.210730256	0.105790385
Rasa3 19414	-1.14737974	0.330483185	-1.461681265	0.107014632
Tpt1p 497210	-1.147429297	0.385506004	-1.657770148	0.156327277
Fam122b 78755	-1.147535211	0.425886284	1.58181987	0.137083841
Mrps7 50529	-1.147571427	0.063690111	-1.166955444	0.008849942
Spry4 24066	-1.147585922	0.363193167	1.379181862	0.136127649
Pus10 74467	-1.147821591	0.209233263	-1.17340694	0.145183981
Abhd11 68758	-1.147904438	0.215869262	-1.260249417	0.102581289
Wtap 60532	-1.147973178	0.300417332	1.048418759	0.416809051
Tmx3 67988	-1.148045003	0.324338743	-1.148045003	0.324338743
Csnk1a1 93687	-1.148062149	0.32251052	1.076264604	0.389635015
Katnb1 74187	-1.148063547	0.371098573	1.041995671	0.456854218
Coq6 217707	-1.148066968	0.216776687	-1.052946311	0.381851722
9530082P21Rik 638247	-1.148089596	0.331458462	-1.503802735	0.082092828
Rbm5 83486	-1.14821891	0.178841764	-1.118295049	0.169462906
Dlg3 53310	-1.148227632	0.141172977	-1.148227632	0.141172977
Tgfbr1 21812	-1.148376851	0.302530432	-1.510545982	0.02392281
Zfp598 213753	-1.14839441	0.039532492	-1.188992013	0.01880901
Aspg 104816	-1.148431978	0.059290595	-1.197471253	0.026192839
5430437P03Rik 68251	-1.148447604	0.066403367	-1.148447604	0.066403367
Wbp2 22378	-1.148461016	0.031260269	-1.070325974	0.105625463
Mecp2 17257	-1.148500503	0.106628554	-1.196391691	0.068220576
Zfp346 26919	-1.148554767	0.308164918	-1.077344851	0.343082257
Atrx 22589	-1.148567992	0.366292972	1.151955722	0.286911578
Cd164 53599	-1.14863849	0.278827098	-1.131609241	0.224913139

Crlf3 54394	-1.148684142	0.346241112	1.100234491	0.385798037
Man2b2 17160	-1.148845153	0.06665946	-1.276320374	0.000877188
Setd2 235626	-1.148854233	0.265113199	-1.148854233	0.265113199
Ltbp4 108075	-1.148886506	0.120878183	-1.309528162	0.00498277
Ahdc1 230793	-1.148890113	0.211615044	-1.032353572	0.416587824
Drosha 14000	-1.149022245	0.158338794	1.037908715	0.199533928
Ikbkg 16151	-1.149056042	0.267932666	1.035849867	0.41554003
Dclre1a 55947	-1.149108179	0.250665419	-1.005380537	0.486419555
1810014B01Rik 66263	-1.149155354	0.293355391	-1.296633228	0.066715438
AW146020 330361	-1.149219239	0.415262063	-1.885842894	0.201181342
Adh4 26876	-1.149221319	0.244466649	-1.291637149	0.107577684
Rap1gds1 229877	-1.149246367	0.204137495	1.03969265	0.371489325
281042815Rik 66462	-1.149333352	0.283223097	-1.383163296	0.078700781
Selenbp1 20341	-1.149369108	0.13215758	-1.11843064	0.120608643
Telo2 71718	-1.149401141	0.278510783	-1.149401141	0.278510783
Ctcf 13018	-1.149412836	0.273382554	-1.170335837	0.229013589
Agtr1a 11607	-1.149413176	0.286199305	-1.340800218	0.122554291
Gps2 56310	-1.149460585	0.229338385	-1.252792226	0.131230851
Dpp9 224897	-1.149478356	0.019686978	-1.194705793	0.001552019
Nfe2l2 18024	-1.149610195	0.191528054	-1.278096308	0.057343859
Sort1 20661	-1.14962437	0.323906138	-1.14962437	0.323906138
4930455C21Rik 76916	-1.149628668	0.208506957	-1.2632029	0.094096176
Mup9 100038948	-1.14965703	0.387753062	-1.14965703	0.387753062
Ghdc 80860	-1.149698889	0.11179714	-1.149698889	0.11179714
Gcsh 68133	-1.149741379	0.053731559	-1.119295834	0.100135838
Frk 14302	-1.149754461	0.308880418	-1.149754461	0.308880418
Tmem143 70209	-1.149783691	0.133846529	-1.067743449	0.273148702
Dkk3 50781	-1.14978411	0.358203135	-1.285947424	0.246566367
Taf2 319944	-1.149797312	0.259736004	-1.019067715	0.463358302
Spint1 20732	-1.149823433	0.362841143	-1.149823433	0.362841143
Mmgt1 236792	-1.14988955	0.155434303	-1.14988955	0.155434303
Dopey2 70028	-1.149901327	0.124361634	-1.23507885	0.040953128
Pkp4 227937	-1.149916917	0.059351838	-1.149916917	0.059351838
Fam135a 68187	-1.149993649	0.353924658	1.097739454	0.399435267
Cadm3 94332	-1.150018035	0.21204751	-1.150018035	0.21204751
Dusp14 56405	-1.150062762	0.389395094	1.218096211	0.348431201
Agbl5 231093	-1.150153124	0.299611528	-1.087792983	0.29487494
C1s 50908	-1.150182813	0.107209311	-1.150182813	0.107209311
Tmem184b 223693	-1.150208155	0.112561588	-1.081219606	0.22606109
Pi4k2a 84095	-1.15021615	0.09284927	-1.15021615	0.09284927
Vapb 56491	-1.150253521	0.004897886	-1.209467798	0.00017856
41167 93684	-1.150315321	0.098326263	-1.158487869	0.025637274
Slc5a1 20537	-1.150386258	0.402282081	-1.900662917	0.146212747
Cd79b 15985	-1.150397222	0.306410896	1.039921733	0.438316835
Jup 16480	-1.150419772	0.103359746	-1.103262744	0.184256567
Polr3k 67005	-1.150419914	0.179453716	-1.060058307	0.33184477
Akna 100182	-1.150430117	0.334321318	-1.163492475	0.316885893
Wdr67 210544	-1.150502429	0.33268739	-1.150502429	0.33268739
Fundc1 72018	-1.150582346	0.301523931	-1.171429784	0.196543705
Dram2 67171	-1.150678347	0.159671926	-1.06502352	0.311408578
Sec31a 69162	-1.150715722	0.066692578	-1.197964708	0.034609586
Cdc34 216150	-1.150758297	0.181887912	-1.26842636	0.060245905
Hiat1 15247	-1.150760989	0.306764126	1.213560973	0.132185143

Rabggta 56187	-1.150781359	0.077259359	-1.150781359	0.077259359
Thap11 59016	-1.150786864	0.180699614	-1.107605002	0.268462147
Whrn 73750	-1.150892248	0.386689887	-1.690303969	0.15651159
Slc25a27 74011	-1.150906331	0.355395721	-1.50936067	0.147740833
Irs2 384783	-1.150910357	0.396671394	-1.422814123	0.285911479
Kbtbd10 228003	-1.151057271	0.389850522	-1.171381302	0.374052799
Rab18 19330	-1.151193892	0.33337235	1.094967272	0.37757938
Unc93a 381058	-1.151194528	0.307051885	-1.151194528	0.307051885
Dgcr14 27886	-1.151418452	0.219816797	-1.069252986	0.351803439
Clcn3 12725	-1.151436497	0.313680442	-1.151436497	0.313680442
Rhbdd1 76867	-1.151494507	0.305723109	-1.062763785	0.399372141
Stk25 59041	-1.151658658	0.123472941	-1.151658658	0.123472941
Atl3 109168	-1.151676963	0.33176992	1.064605293	0.332012213
Thap2 66816	-1.151707494	0.317231276	-1.151707494	0.317231276
Mbtps1 56453	-1.15172631	0.083229891	-1.228906737	0.019079866
1700052N19Rik 73419	-1.151819338	0.271819237	-1.234959288	0.051277233
Atf5 107503	-1.151901488	0.041231471	-1.056402161	0.13112791
Cdk5rap1 66971	-1.151958295	0.342233555	-1.217230767	0.199081259
Slc27a3 26568	-1.151959663	0.388317052	-1.151959663	0.388317052
Hp1bp3 15441	-1.151987459	0.189349704	-1.151987459	0.189349704
Socs2 216233	-1.152021495	0.253251778	1.099619841	0.264742955
Smn1 20595	-1.152084917	0.225030251	-1.033612164	0.423433986
Arhgdib 11857	-1.152209652	0.206987602	-1.221248005	0.069185417
Pex10 668173	-1.152271972	0.282805963	-1.507194248	0.03444451
Avl9 78937	-1.15235039	0.373866968	-1.15235039	0.373866968
1700088E04Rik 27660	-1.152362425	0.434776335	2.057220559	0.233247321
Stard8 236920	-1.152387308	0.237687063	-1.080379261	0.349600214
Apol9a 223672	-1.15239813	0.318555646	-1.342565522	0.04711098
Agt 11606	-1.152413358	0.188457832	-1.152413358	0.188457832
Usp45 77593	-1.152531908	0.359040437	1.088475023	0.41623425
Mus81 71711	-1.152612899	0.222678324	-1.297970689	0.079750569
Mrc1 17533	-1.152696012	0.322874964	-1.093665351	0.375518123
Dyrk1b 13549	-1.152842903	0.165555322	-1.279193606	0.036768298
Serpib9 20723	-1.152945451	0.379516421	-1.140071799	0.37638299
Lrrc14b 432779	-1.153002925	0.377471067	-1.562477748	0.143283389
Fbxl8 50788	-1.153009593	0.292238956	-1.358307991	0.082787208
Ppfbp1 67533	-1.153041831	0.340673405	1.128250554	0.342066797
Cldn5 12741	-1.153046895	0.169491619	-1.082145295	0.229962103
Fbxl3 50789	-1.153066402	0.357840272	1.16422311	0.331617921
Fntb 110606	-1.153147535	0.270333433	1.005206343	0.488423955
Ets1 23871	-1.153185913	0.338495527	-1.096931088	0.387272839
Gng5 14707	-1.153190304	0.182230693	-1.063042415	0.339858528
Fgfr2 14183	-1.15319062	0.29160593	1.056350758	0.394006749
Abhd3 106861	-1.153206114	0.251359894	1.093299548	0.28161473
Gal3st4 330217	-1.153208457	0.381579194	-1.364037215	0.240311046
Ar 11835	-1.153327842	0.428102672	-1.189393939	0.435388966
Dnpep 13437	-1.153448789	0.19244842	1.00971019	0.470737235
Tet2 214133	-1.153480849	0.336136294	1.022313039	0.457477749
Hk2 15277	-1.153494442	0.301304945	-1.283604224	0.171978873
Dnajc22 72778	-1.153536707	0.182388884	-1.170346291	0.100155869
Ndufv3 78330	-1.153655261	0.261597225	-1.163265252	0.160643208
Ift57 73916	-1.153747837	0.368372057	1.031484346	0.468331887
Sirt3 64384	-1.153914723	0.046537817	-1.061626441	0.163857255

Sdha 66945	-1.153944311	0.100533321	-1.153944311	0.100533321
Ireb2 64602	-1.153976412	0.308535755	-1.153976412	0.308535755
Ndufa10 67273	-1.153988254	0.069006991	-1.153988254	0.069006991
Sh3pxd2a 14218	-1.154001035	0.282545241	-1.152996237	0.279768153
Ropn1 252967	-1.15400662	0.307853495	-1.505819838	0.044426904
Bzrap1 207777	-1.154013868	0.441341423	-2.019707773	0.301117079
Luc7l3 67684	-1.154052116	0.107757902	-1.154052116	0.107757902
Necap1 67602	-1.154069772	0.175399981	-1.258748868	0.03885567
Snf8 27681	-1.154090198	0.22956807	-1.154090198	0.22956807
Flot1 14251	-1.154110322	0.175949241	-1.061802667	0.336331189
Dedd 21945	-1.154134975	0.164413406	-1.292327787	0.025906494
Pcdh12 53601	-1.154211354	0.204083036	-1.154211354	0.204083036
Aggf1 66549	-1.154272522	0.24090962	-1.154272522	0.24090962
B2m 12010	-1.154324232	0.045830851	-1.154324232	0.045830851
Hps6 20170	-1.154340639	0.180625045	-1.278957248	0.021400426
Zdhhc18 503610	-1.154524287	0.106686066	-1.071597769	0.223634509
Actr1a 54130	-1.154548761	0.007382571	-1.154548761	0.007382571
Fmnl3 22379	-1.154549738	0.213000424	-1.25133017	0.093432568
Pcsk4 18551	-1.154550167	0.118294789	-1.068745944	0.148691555
Camta2 216874	-1.154582237	0.173356415	-1.253220846	0.046094068
Exd2 97827	-1.154607072	0.325485074	-1.214334731	0.241237746
Thap1 73754	-1.154854219	0.147349403	-1.213296142	0.098008094
Zfp512 269639	-1.154896193	0.162198037	-1.347427386	0.011727475
Enpp1 18605	-1.154907893	0.055017282	-1.198853969	0.015410468
Flii 14248	-1.154936791	0.10038775	-1.154936791	0.10038775
Myd88 17874	-1.154953812	0.169131474	-1.154953812	0.169131474
Tm9sf1 74140	-1.155062637	0.101963897	-1.100668978	0.188472594
Rbm43 71684	-1.155227084	0.288725621	-1.143265429	0.258167098
Tmem14c 66154	-1.155250611	0.076277397	-1.195712905	0.051682336
Ergic1 67458	-1.155292699	0.070739495	-1.04349732	0.22095551
Usp48 170707	-1.155314069	0.104975137	-1.098284189	0.195194948
Dcun1d2 102323	-1.155336242	0.236734684	-1.067010737	0.377815348
Carm1 59035	-1.155573994	0.097071889	-1.216153709	0.033553322
Gm5512 433224	-1.155618211	0.201834671	-1.025112354	0.428055632
Cpn1 93721	-1.155659732	0.141327476	-1.126787965	0.132269294
Gm17762 100034739	-1.155818633	0.41765293	-2.020751923	0.197627689
Ccdc61 232933	-1.156088849	0.231764048	-1.1991222	0.084683117
Zfp697 242109	-1.156198406	0.285574897	1.168744833	0.171580818
Map3k11 26403	-1.156208424	0.083597074	-1.156208424	0.083597074
Ufsp2 192169	-1.156233248	0.067786057	-1.178494911	0.018104208
Mthfs 107885	-1.156342983	0.192805055	-1.251202479	0.103919817
Ppme1 72590	-1.156358863	0.111054587	-1.252005988	0.024596266
Golga5 27277	-1.156465213	0.269862157	-1.268343374	0.148813051
Gtf2a1 83602	-1.15654792	0.27610466	-1.067163075	0.370345492
Gba2 230101	-1.156559519	0.197281888	-1.253147284	0.077002329
Dixdc1 330938	-1.156578675	0.287845695	-1.557913559	0.012907056
Rnf19a 30945	-1.156611936	0.255513101	-1.207515346	0.157861709
Hsd17b12 56348	-1.156639466	0.162416715	-1.156639466	0.162416715
Tatdn2 381801	-1.156758951	0.187101013	-1.059335379	0.352702144
Ehd4 98878	-1.156807048	0.255146063	-1.225680359	0.12721337
Mon1a 72825	-1.156811833	0.15657399	-1.288012155	0.028151199
Recql4 79456	-1.156964545	0.346144377	-1.698733919	0.038804519
Cyb5 109672	-1.156989268	0.16738572	-1.035927257	0.372212381

Ccdc30 73332	-1.156989838	0.300916966	-1.584407703	0.030780199
Adra1b 11548	-1.157013838	0.289378137	-1.466330898	0.044241442
Ugt3a1 105887	-1.157018483	0.073817829	-1.157018483	0.073817829
Mbl1 17194	-1.157055027	0.151285215	-1.15197541	0.122913968
Nr2c2ap 75692	-1.157081787	0.244275859	-1.447670135	0.02156677
Arsk 77041	-1.157125944	0.350859413	1.168807535	0.314147864
Rdh11 17252	-1.157152732	0.225176611	1.06822327	0.311702208
D930016D06Rik 100662	-1.157211457	0.293068189	-1.258227714	0.175325502
Ezh2 14056	-1.157261371	0.400302532	-2.302802941	0.060851966
Ppp1r2 66849	-1.157282198	0.212763651	-1.435589697	0.007820195
Lrrc28 67867	-1.157296115	0.088234102	-1.118382707	0.158113301
Ifih1 71586	-1.157386631	0.259834085	-1.024217375	0.456434623
Pramef8 242736	-1.157402776	0.351723087	-1.585391943	0.11310171
Tbxas1 21391	-1.157537265	0.30540383	1.030736631	0.455410479
Vps16 80743	-1.157540181	0.200993209	-1.053779754	0.365518623
Ccnl2 56036	-1.157548651	0.160224533	-1.000534329	0.498183129
Ralgps2 78255	-1.157613995	0.232037961	-1.447185555	0.017676718
Hdac6 15185	-1.157671871	0.125034306	-1.077559282	0.246692424
Micu1 216001	-1.157709755	0.083132114	-1.243069799	0.015559906
Ankib1 70797	-1.157753449	0.310957041	-1.157753449	0.310957041
Sirt7 209011	-1.157774575	0.100223452	-1.104215431	0.189495135
Pla2g12b 69836	-1.157863253	0.141324812	-1.256454794	0.02107216
Frm8 67457	-1.157879241	0.115674126	-1.172380704	0.04704641
Ddo 70503	-1.15789615	0.151848991	-1.060755591	0.312326823
Abcf2 27407	-1.158211406	0.076874893	-1.205936448	0.03511356
Gpr182 11536	-1.158267202	0.087877834	-1.172615127	0.018300789
Nmnat1 66454	-1.15830615	0.164861088	-1.272517585	0.021000442
Pskh1 244631	-1.158398739	0.156049159	1.006397025	0.475944697
Cnot2 72068	-1.158438298	0.233633774	-1.031649304	0.43383436
Vwa5a 67776	-1.158453501	0.361307058	1.183911062	0.325193585
Polr3c 74414	-1.158472271	0.109705271	-1.067941959	0.231580983
Mup19 100189605	-1.15849334	0.392159015	1.259537922	0.337430724
Ttyh2 117160	-1.158544542	0.120739621	-1.201446214	0.017743354
Mccc2 78038	-1.158607503	0.063035678	-1.104864404	0.127021835
Wnk2 75607	-1.158645939	0.36898372	-1.158645939	0.36898372
Bzw1 66882	-1.158658786	0.304377692	-1.158658786	0.304377692
D2Wsu81e 227695	-1.158668232	0.143533506	-1.007103423	0.472614229
D9Ertd402e 382117	-1.158734238	0.196479075	-1.329595433	0.031804499
Tmx2 66958	-1.158777736	0.14878023	-1.086480266	0.265806647
Was 22376	-1.158783296	0.335955025	-1.510121087	0.118813162
Sirt2 64383	-1.158850323	0.016306624	-1.182099038	0.013293461
Txndc9 98258	-1.159251369	0.076439728	-1.196355515	0.004958134
Cc2d1a 212139	-1.159259527	0.13691959	-1.063497971	0.287528397
Dmd 13405	-1.159416099	0.339478435	1.140283798	0.330318536
Naif1 71254	-1.159426837	0.381121265	-1.182022492	0.376173231
Gorasp2 70231	-1.159497581	0.124440573	-1.1391568	0.058204293
D2hgdh 98314	-1.159563724	0.24149401	-1.021200854	0.456272653
Gbp4 17472	-1.159578942	0.362360465	1.16622302	0.348505043
Stat6 20852	-1.159672194	0.171318441	-1.159672194	0.171318441
Pter 19212	-1.159736104	0.185967672	-1.153312723	0.141254124
Rpn2 20014	-1.15984994	0.068676771	-1.050871426	0.258095903
Gtpbp3 70359	-1.159896869	0.098178656	-1.090795731	0.194715911
Fbxl17 50758	-1.160225849	0.262136342	1.031815718	0.428249405

Rapgef1 107746	-1.160241892	0.109848292	-1.11497409	0.064260714
Cd81 12520	-1.160261032	0.03189257	-1.22390988	0.004007345
Dhrs11 192970	-1.160305418	0.241205297	-1.008966668	0.477475069
Tram1 72265	-1.160311231	0.080761176	-1.239565507	0.020022416
Ttc36 192653	-1.160363473	0.229034143	-1.471221704	0.004601434
Nono 53610	-1.160400635	0.157699761	-1.25848824	0.037113827
9330151L19Rik 414085	-1.160498307	0.281247236	-1.018694852	0.47116695
Tcf4 21413	-1.160530002	0.329715414	1.084788043	0.329718338
Cadps2 320405	-1.160556225	0.121089798	-1.327238502	0.008319559
Slc15a3 65221	-1.160582435	0.205274671	-1.296251354	0.07795741
Mcat 223722	-1.160605552	0.119726173	-1.225148537	0.029415073
Zxda 668171	-1.160692669	0.38880657	-1.916416447	0.048242189
Cyp2a4 13086	-1.160694948	0.233972999	-1.160694948	0.233972999
Ktn1 16709	-1.160804131	0.311708055	1.036146052	0.45115082
Aldh1l1 107747	-1.160856343	0.003251731	-1.151226352	0.000875218
Oaz2-ps 18247	-1.160901373	0.069741471	-1.09759132	0.142620115
Pqlc1 66943	-1.160937861	0.058265169	-1.041511571	0.179125373
Slc23a2 54338	-1.161055632	0.301744175	-1.288792141	0.213971809
AW554918 225289	-1.161060909	0.369812995	-1.694687877	0.125366495
Crtc2 74343	-1.161066461	0.064560267	-1.291012507	0.000155399
Bcl2l13 94044	-1.161195249	0.224312902	-1.126166568	0.198876432
Ttc7 225049	-1.161276548	0.061845723	-1.05760204	0.230979596
D4Wsu53e 27981	-1.16136155	0.30042237	-1.400085309	0.125990384
Upp2 76654	-1.161395111	0.248614574	-1.002242882	0.495223403
Naa25 231713	-1.161404552	0.179538897	-1.208588867	0.087968827
Apoa1bp 246703	-1.161411324	0.07097116	-1.161411324	0.07097116
Ptprcap 19265	-1.161597443	0.24379325	-1.052195803	0.407390071
Dse 212898	-1.161715791	0.304584978	1.023259174	0.467436168
Bicd2 76895	-1.161719416	0.254078428	-1.095856696	0.301337145
Sfrp1 20377	-1.161797137	0.379382084	-1.656314914	0.17186137
Mlec 109154	-1.161846894	0.085740115	-1.268335751	0.005986173
Zfp248 72720	-1.16189407	0.403007224	1.927201325	0.068141101
Tpx2 72119	-1.161971376	0.426260985	-2.696597471	0.113604984
Ugp2 216558	-1.162157651	0.102510097	-1.090184164	0.207661134
Dido1 23856	-1.162286607	0.267497673	-1.022082771	0.454955471
Tmbim6 110213	-1.162306316	0.010533181	-1.149171286	0.002020212
Mina 67014	-1.162310347	0.130042557	-1.078552221	0.261822572
Dlc1 50768	-1.162329074	0.257605334	-1.308574957	0.137284062
Rnf128 66889	-1.162339504	0.19490296	-1.162339504	0.19490296
Itih3 16426	-1.162342647	0.122322542	-1.222567946	0.059301293
Fam49a 76820	-1.162382313	0.35868956	-1.480926399	0.195746513
4931414P19Rik 74359	-1.16249708	0.233169659	-1.295542597	0.073379645
Anapc7 56317	-1.162517132	0.201106258	-1.140685092	0.197100677
Mycbp2 105689	-1.162745186	0.229985029	-1.071170905	0.363336552
F8 14069	-1.162765341	0.354017002	-1.877681147	0.0400995
Zdhhc3 69035	-1.162827927	0.09165224	-1.308523541	0.002889854
Fam179b 328108	-1.162840048	0.378309808	-1.605288519	0.190484197
6330578E17Rik 76178	-1.162964266	0.235039168	-1.132541323	0.211469056
Aatf 56321	-1.162976318	0.116040769	-1.162976318	0.116040769
HnrpII 72692	-1.162985074	0.326638488	-1.219833859	0.253503801
Niacr1 80885	-1.162990048	0.43126574	1.150701957	0.450338304
Tmem47 192216	-1.163077087	0.393515424	1.166381036	0.357980049
Zfp281 226442	-1.163077567	0.301012529	-1.384093357	0.142942317

5730494N06Rik 70612	-1.163133068	0.206090222	-1.163133068	0.206090222
Prpf3 70767	-1.163253831	0.047317297	-1.214283838	0.012522068
Flt4 14257	-1.163291369	0.127950497	-1.241002337	0.0405646
Scyl3 240880	-1.163306622	0.175407806	1.027388328	0.403867172
1500015A07Rik 68982	-1.163393931	0.345101419	1.29439236	0.20184601
Scn7a 20272	-1.163532469	0.4240673	-2.078368687	0.229588298
Hsbp1 68196	-1.163577461	0.104064793	-1.327161669	0.001733929
Cyp2r1 244209	-1.163606704	0.317476226	1.263699355	0.122378987
AA960436 101985	-1.163607021	0.236279601	-1.27674326	0.142232535
Nup35 69482	-1.163646588	0.409306379	-1.400433478	0.284360007
Cuedc1 103841	-1.163652535	0.303451708	1.078223102	0.373852026
4930555I21Rik 78806	-1.163689676	0.433899348	-1.001617989	0.49931754
Wdr81 192652	-1.164025109	0.088893263	-1.082994503	0.183319295
Eif3c 56347	-1.16419198	0.02064898	-1.189841851	0.00049419
Atp9b 50771	-1.16427026	0.041856658	-1.275607439	0.000820145
Hapln4 330790	-1.164335293	0.271423629	-1.455127611	0.040525389
2010204K13Rik 68355	-1.16437436	0.424292817	2.377509955	0.104925156
Serpina1d 20703	-1.164443809	0.120779177	-1.279256285	0.001903829
Srrt 83701	-1.164467418	0.075959248	-1.098529017	0.153936705
Rcsd1 226594	-1.164505202	0.244754738	1.000870442	0.498078024
Slc44a1 100434	-1.164624878	0.060855587	-1.221263979	0.026358556
Gas7 14457	-1.164784348	0.32869941	1.058179827	0.432856825
3000002C10Rik 378954	-1.16482281	0.356482978	-1.610825836	0.132478067
Mcm7 17220	-1.164939049	0.206189935	-1.051670027	0.385684752
Polr3b 70428	-1.164954115	0.138441752	-1.233419629	0.064108554
Nrd1 230598	-1.165102338	0.021034941	-1.257986281	9.38512E-05
Sptlc1 268656	-1.165187187	0.099529347	-1.079292693	0.141990974
1700001C19Rik 75462	-1.165198176	0.270132294	-1.165198176	0.270132294
Thns12 232078	-1.165281292	0.050669373	-1.1906408	0.045356313
Zfp191 59057	-1.16528713	0.090473411	-1.237576519	0.019783551
Ptgr2 77219	-1.165402641	0.100623945	-1.054074339	0.163344816
Eif2ak3 13666	-1.16547893	0.276724862	-1.299292488	0.177869062
Pcbp4 59092	-1.165629154	0.216910678	-1.392943529	0.01810093
Tmem158 72309	-1.165850394	0.437453649	-3.221509091	0.127882662
Gimap5 317757	-1.165927181	0.366771773	-1.165927181	0.366771773
Ager 11596	-1.166031552	0.389396952	-1.987541548	0.074579046
2310028H24Rik 71901	-1.166042318	0.263192671	-1.166042318	0.263192671
Sorbs3 20410	-1.166043563	0.079517026	-1.106004064	0.160015961
Chd7 320790	-1.16606934	0.194430256	1.037178359	0.358684339
Nsg1 18196	-1.166103972	0.264914733	-1.549526155	0.014219149
Sidt2 214597	-1.166192053	0.051024652	-1.166192053	0.051024652
Nudcd3 209586	-1.166223566	0.194133313	-1.166223566	0.194133313
Coro2b 235431	-1.166287483	0.238822748	-1.200614923	0.134969585
I7Rn6 67669	-1.166333747	0.192102752	-1.273952347	0.063891853
Bcl2l12 75736	-1.166346897	0.247294968	-1.151886073	0.193485153
Zkscan5 22757	-1.16640908	0.123330647	-1.266609621	0.036777142
Vps33a 77573	-1.166483875	0.167795374	-1.287234358	0.034325592
Chaf1a 27221	-1.166513146	0.29782108	-1.38522985	0.143729739
Gbf1 107338	-1.166518887	0.046235127	-1.166518887	0.046235127
Iqcd 75732	-1.166604495	0.346384504	1.021275564	0.475960388
Ociad2 433904	-1.166638354	0.287686146	-1.317136451	0.116056975
Ache 11423	-1.166669055	0.411319661	-3.485201345	0.01373478
Slc25a24 229731	-1.166754581	0.421383765	-4.416830303	0.002861384

BC026585 226527	-1.166870128	0.124816903	-1.28406249	0.023514116
Scamp3 24045	-1.167008614	0.044635156	-1.15280702	0.016478064
Dctn1 13191	-1.167011729	0.03803293	-1.055648005	0.106683486
Akr1c13 27384	-1.16702596	0.01404547	-1.168724465	0.003144258
D10Jhu81e 28295	-1.167037959	0.068978593	-1.112477338	0.138865545
Scarf2 224024	-1.167089436	0.345846382	1.113564778	0.385821642
Coasy 71743	-1.167115687	0.031311712	-1.109476296	0.053080291
Igsf11 207683	-1.167270477	0.205240513	-1.167270477	0.205240513
Pvt1 19296	-1.167325582	0.398715476	-1.167325582	0.398715476
1190007F08Rik 68859	-1.167395111	0.342782459	-1.467850276	0.177681063
Zfp828 101994	-1.167550272	0.296975974	-1.167550272	0.296975974
Ube2k 53323	-1.167734595	0.185904913	-1.28862	0.078114596
Tti2 234138	-1.16774554	0.062554027	-1.054849615	0.226125368
Lclat1 225010	-1.167775758	0.211077958	-1.167775758	0.211077958
1110008L16Rik 66132	-1.167831193	0.163214588	-1.184671434	0.093110371
Clasp1 76707	-1.167882296	0.219355902	1.066039665	0.324499276
Al837181 107242	-1.167909966	0.072237632	-1.20801744	0.052205356
5031425F14Rik 319684	-1.167976153	0.412508893	-1.305244483	0.378399987
Wdr18 216156	-1.168024388	0.031285479	-1.104645253	0.043069157
Zkscan6 52712	-1.16826177	0.307054315	-1.00276196	0.496509938
Fbxo4 106052	-1.168287243	0.22949561	-1.481405388	0.016725757
Zfp263 74120	-1.168326806	0.185614783	-1.157919394	0.158176535
Vmac 106639	-1.168327377	0.108219807	-1.316302602	0.007327138
Atf6 226641	-1.168339108	0.169941946	-1.168339108	0.169941946
Slc6a9 14664	-1.168341661	0.155204525	-1.168341661	0.155204525
Ncoa1 17977	-1.168342496	0.243648959	1.030114084	0.418127229
Myo9b 17925	-1.168391532	0.158037899	1.002074076	0.493220685
Egln1 112405	-1.168410661	0.07627851	-1.321867868	0.001311579
Sgce 20392	-1.168463272	0.26080608	-1.302019769	0.118505185
Irgb5 16419	-1.168587654	0.116960488	-1.25253339	0.027127803
Sh2b1 20399	-1.168617689	0.090374754	-1.317644329	0.00619576
Psmb9 16912	-1.168624918	0.254099623	-1.203077549	0.15633352
Bcat2 12036	-1.168638084	0.155574135	-1.168638084	0.155574135
Golga1 76899	-1.168642236	0.222757548	-1.099547742	0.332211542
Urgcp 72046	-1.168843689	0.077797471	-1.09320895	0.159086675
Aqp11 66333	-1.16884723	0.082853284	-1.08899096	0.169827149
Slc46a1 52466	-1.169136433	0.039484869	-1.176398682	0.017318945
Mga 29808	-1.169142914	0.313471258	-1.146146121	0.222887578
Luc7l2 192196	-1.169198725	0.248259412	1.042793289	0.415780973
Gigyf1 57330	-1.169228166	0.14735798	-1.269060417	0.060897662
Ak3 56248	-1.169277363	0.007442411	-1.127192229	0.008521427
Mtmr7 54384	-1.169284889	0.352533128	-1.617758411	0.12916833
Cdadcl 71891	-1.16931938	0.151819615	-1.002889247	0.489868472
Pisd-ps2 328734	-1.169320009	0.348760645	-1.025477069	0.474216428
Tmem115 56395	-1.169405943	0.132021595	-1.23897211	0.077863519
Usp47 74996	-1.169500505	0.109027514	-1.098510952	0.208658026
Cachd1 320508	-1.169502914	0.370386032	-1.479100514	0.233992227
Sh3bgrl 56726	-1.169559585	0.312016522	-1.120856773	0.325983009
Baz2a 116848	-1.16973348	0.298104717	1.177768206	0.218173178
Rtn4 68585	-1.169862533	0.186962182	-1.17126968	0.171197628
Ubxn8 108159	-1.169917229	0.080586555	-1.311852852	0.005511502
Cdt1 67177	-1.17000961	0.295700876	-1.428454933	0.115851023
Mpp5 56217	-1.170030102	0.266386615	-1.371958361	0.110483959

Hnf1a 21405	-1.17005446	0.119110177	-1.127196288	0.113807802
Cyp7a1 13122	-1.170107851	0.341398706	-1.170107851	0.341398706
Pcnx 54604	-1.170116141	0.035954871	-1.162496446	0.022024818
Fitm2 228859	-1.170135995	0.215009597	-1.459761244	0.012844802
Tcn2 21452	-1.170205629	0.116099348	-1.170205629	0.116099348
Ythdf3 229096	-1.170228179	0.321534753	-1.050311188	0.438433218
1110018G07Rik 68497	-1.170271183	0.207094203	-1.05814238	0.378915669
Uba2 50995	-1.170295031	0.264768021	-1.003906862	0.493201708
Tceb1 67923	-1.170306324	0.089790381	-1.038640198	0.331125822
Macrod2 72899	-1.170309256	0.220126326	-1.339348377	0.074776199
Mterf 545725	-1.170339789	0.274824718	-1.167297565	0.144855092
Arfgef2 99371	-1.170432491	0.203425032	-1.034509379	0.415669253
Dlg1 13383	-1.170436258	0.300284777	1.057107214	0.415098059
Ergic3 66366	-1.170449583	0.144172451	-1.376469102	0.006716292
Cops3 26572	-1.170521361	0.245379177	-1.11772579	0.275214489
Carhsp1 52502	-1.170561463	0.00401634	-1.108739668	0.002542993
Gtf2f1 98053	-1.170620555	0.206114089	-1.170620555	0.206114089
Ss18l1 269397	-1.170725749	0.318554809	-1.164278078	0.284018604
Fam203a 59053	-1.170797922	0.253193914	-1.170797922	0.253193914
Hspb7 29818	-1.170826329	0.412908888	-1.557757649	0.233183213
Chi3l1 12654	-1.170859674	0.447086006	1	#DIV/0!
Crnkl1 66877	-1.170860848	0.228990242	1.073476644	0.325705142
Brdt 114642	-1.170927559	0.326764795	1.019716241	0.474250015
Cbr1 12408	-1.171090277	0.089811548	-1.265908619	0.004073898
Pisd 320951	-1.171118004	0.069922403	-1.104774968	0.142029884
Prdm2 110593	-1.171149991	0.2618847	-1.20067761	0.125850378
Slc23a1 20522	-1.171279349	0.070755566	-1.171279349	0.070755566
Slc12a6 107723	-1.171427338	0.274965471	1.028915149	0.448853908
Sfmbt1 54650	-1.171466598	0.233992891	-1.068743584	0.335042911
Pebp1 23980	-1.171485896	0.07578682	-1.194676007	0.01847383
Tacc3 21335	-1.171494561	0.325693484	-1.767951503	0.019223771
Slc43a1 72401	-1.171637961	0.23829579	-1.34180119	0.040899079
Rnf25 57751	-1.171642771	0.181760389	-1.088145734	0.305730299
Pdgfrb 18596	-1.171671225	0.22283704	-1.332668995	0.053000034
Lrrc40 67144	-1.171705633	0.214778945	-1.171705633	0.214778945
AW011738 100382	-1.171719695	0.331538769	-1.555243365	0.113962539
Fahd2a 68126	-1.171759379	0.178652482	-1.306167646	0.020837265
Zfyve27 319740	-1.171762473	0.108369075	-1.159023208	0.092275709
Acat1 110446	-1.171766583	0.096516733	-1.096483231	0.192500763
Fiz1 23877	-1.171807545	0.072088865	-1.133118632	0.132492158
Sp140 434484	-1.1718336	0.2654422	-1.563342944	0.020920812
Sf1 22668	-1.171847737	0.072922663	-1.219681826	0.046552095
Tmc4 353499	-1.171868327	0.364100721	-1.823724121	0.004280278
Nupl2 231042	-1.171971381	0.322833465	-1.171971381	0.322833465
Atp5sl 66349	-1.172205403	0.116060138	-1.172205403	0.116060138
Rabgap1 227800	-1.172733933	0.23033913	-1.232882068	0.152180237
2210016F16Rik 70153	-1.172761834	0.096698667	-1.181306734	0.044922405
Sh3glb1 54673	-1.17276987	0.027082571	-1.17276987	0.027082571
S1pr3 13610	-1.172852542	0.286766694	-1.340942707	0.103015291
Arhgap12 75415	-1.172920958	0.317359914	-1.456333878	0.144009401
Fam89a 69627	-1.173015199	0.274665735	-1.122987922	0.26939769
Cnot3 232791	-1.173046619	0.098041167	-1.098493277	0.193979014
Zscan22 232878	-1.173120796	0.250141276	-1.164467238	0.171919339

2810006K23Rik 72650	-1.173125173	0.123998746	-1.257599525	0.056900495
Ppa1 67895	-1.173218747	0.052157318	-1.179692967	0.010263433
CsdA 56449	-1.173223336	0.011259808	-1.20245424	0.00542881
Sipa1 20469	-1.173478659	0.130980008	-1.308761094	0.018949788
Adamts2 216725	-1.173496649	0.18246115	-1.29519801	0.078616795
Smap2 69780	-1.17349701	0.012829548	-1.226843666	0.001739371
C8a 230558	-1.173528578	0.133427425	-1.173528578	0.133427425
Stx6 58244	-1.173529525	0.198665063	-1.051530104	0.384306682
Abcb11 27413	-1.173651097	0.176415752	-1.044341252	0.375547475
Rdh13 108841	-1.173716427	0.203661763	-1.173716427	0.203661763
Slc16a7 20503	-1.173725205	0.100722899	-1.298904992	0.008094888
D11Wsu47e 276852	-1.173742072	0.244583002	-1.200696063	0.181623043
Nae1 234664	-1.173766593	0.287085081	-1.221991535	0.21150668
Oxr1 170719	-1.173800535	0.332529443	-1.000771042	0.49876224
Irf9 16391	-1.173858694	0.102436767	-1.040871329	0.34179513
Farsb 23874	-1.173902326	0.125288477	-1.015430327	0.441118397
Rae1 66679	-1.174010065	0.189080581	-1.174010065	0.189080581
Aff1 17355	-1.174119547	0.216695327	-1.16054074	0.128740839
Acot7 70025	-1.17416414	0.065223936	-1.247071581	0.008517644
6820431F20Rik 547150	-1.174185497	0.201007609	-1.139082434	0.175942294
Pafah2 100163	-1.174196812	0.070331096	-1.086503175	0.138446317
Pde7a 18583	-1.174224164	0.248784329	1.08308308	0.339599417
Scfd2 212986	-1.174536293	0.017321995	-1.131079068	0.035615931
Mfap3l 71306	-1.17462162	0.419551604	-2.098176768	0.227724758
Tns3 319939	-1.174666126	0.349894802	-1.058728218	0.421808428
Clcn4-2 12727	-1.174674991	0.155340111	-1.292219236	0.025647314
Bach2 12014	-1.174701647	0.317977753	-1.174701647	0.317977753
Acox1 11430	-1.174733058	0.139426796	-1.261762407	0.045747032
Acss2 60525	-1.174765519	0.155069669	-1.174765519	0.155069669
Rab5c 19345	-1.174800231	0.010753241	-1.154090855	0.00251564
Ppip5k1 327655	-1.174830593	0.212839947	-1.338927894	0.075265534
Tnfaip2 21928	-1.174865894	0.23866013	-1.067376091	0.26168176
C77080 97130	-1.174867075	0.012380055	-1.100484986	0.040570375
Ebf4 228598	-1.174981695	0.413929317	-1.074966612	0.46340475
Pno1 66249	-1.174992472	0.263330197	-1.174992472	0.263330197
Ubn2 320538	-1.175012266	0.230789062	1.011132388	0.470939363
Mcoln1 94178	-1.175123716	0.107997931	-1.238126236	0.048965966
Thoc6 386612	-1.175127984	0.235825687	-1.057138914	0.393208744
Lrig1 16206	-1.1751601	0.274283017	-1.1751601	0.274283017
Nfkbib 18036	-1.175160407	0.069729727	-1.253795573	0.007058771
Uchl5 56207	-1.175199337	0.263939174	-1.175199337	0.263939174
Lonp1 74142	-1.175432349	0.026483126	-1.142179281	0.05462071
Zfp142 77264	-1.175537676	0.238750895	-1.203492939	0.159702888
Cdc23 52563	-1.175558332	0.196404601	-1.175558332	0.196404601
Fam46a 212943	-1.175575143	0.213420557	-1.266072535	0.145896881
Otud5 54644	-1.175648491	0.070849222	-1.175648491	0.070849222
Al507597 100165	-1.175653875	0.164204263	-1.07925492	0.311915211
Arhgap29 214137	-1.175777759	0.278224996	-1.175777759	0.278224996
Akap1 11640	-1.175805538	0.139600558	-1.175805538	0.139600558
Hnrnp2 56258	-1.17595665	0.264961868	1.032023199	0.437717069
Fam185a 330050	-1.176353554	0.298022942	-1.176353554	0.298022942
Fkbp8 14232	-1.176431776	0.198894123	-1.363417682	0.041256542
Plekhhf2 71801	-1.176461613	0.179787177	-1.235058073	0.126604854

C2cd2 207781	-1.176462276	0.009087929	-1.097233068	0.011381347
Kmo 98256	-1.1765459	0.143945153	-1.1765459	0.143945153
Rnf24 51902	-1.176547198	0.272908313	-1.390846888	0.119014938
Fxyd6 59095	-1.176572857	0.343030679	-1.019944789	0.477744197
Hdac8 70315	-1.17661704	0.312578709	1.013006072	0.484716818
Zfp770 228491	-1.176677814	0.344278735	-2.045230263	0.006441542
Osmr 18414	-1.176727845	0.385497767	-1.727213243	0.195612428
Nagpa 27426	-1.17681135	0.183279377	-1.154969902	0.173037991
Pkn1 320795	-1.176844317	0.136139761	-1.380645493	0.008278303
Aarsd1 69684	-1.176922015	0.138124309	-1.263974619	0.045932059
Gphn 268566	-1.176945692	0.195252233	-1.287657393	0.072564857
Mynn 80732	-1.177092268	0.266346571	-1.022216721	0.465560038
Tnrc6a 233833	-1.177122587	0.295761735	1.096612041	0.332633702
Capn7 12339	-1.17717913	0.292187259	-1.597660291	0.037279394
Lhfp12 218454	-1.177226004	0.318102943	-1.177226004	0.318102943
Rcan1 54720	-1.177290065	0.146178325	-1.217109694	0.040652616
Ssh2 237860	-1.17734785	0.393287128	1.440650232	0.261351483
Dvl1 13542	-1.177386702	0.064563318	-1.256192523	0.017014596
Nubp1 26425	-1.17742964	0.123991015	-1.17742964	0.123991015
Zfp866 330788	-1.177517946	0.323397346	1.273758954	0.18119326
Mcm2 17216	-1.177596194	0.356677619	-1.128767193	0.394689542
Kcnip3 56461	-1.177667391	0.282251355	-1.177667391	0.282251355
Gpr108 78308	-1.177729807	0.16397326	-1.268585314	0.092668425
Pde8a 18584	-1.177731004	0.198017403	-1.094660316	0.27963337
Wrn 22427	-1.177763417	0.083505322	-1.114044359	0.166514402
Aldh7a1 110695	-1.177914252	0.016487169	-1.160170969	0.032993158
Tkt 21881	-1.177945823	0.00243629	-1.142717418	0.000272089
Cir1 66935	-1.178107369	0.034283579	-1.260355089	0.002114212
1700025G04Rik 69399	-1.17817687	0.270496251	1.152934766	0.214719489
Hpgds 54486	-1.178198199	0.4034044	1.153994792	0.427016401
Zfp628 232816	-1.178358665	0.154675161	-1.178358665	0.154675161
Twf2 23999	-1.178360878	0.287410159	-1.023257733	0.464928236
Hmg20a 66867	-1.17838582	0.19781789	-1.17838582	0.19781789
Edaradd 171211	-1.178571429	0.434978868	1	#DIV/0!
Slco4a1 108115	-1.178571429	0.434978868	1	#DIV/0!
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Cyp3a57 622127	-1.178571429	0.434978868	1	#DIV/0!
Aspm 12316	-1.178571429	0.434978868	1	#DIV/0!
Slc7a6 330836	-1.178571429	0.434978868	1	#DIV/0!
Wdr63 242253	-1.178571429	0.434978868	1	#DIV/0!
Tnfaip8l3 244882	-1.178571429	0.434978868	1	#DIV/0!
Slc5a11 233836	-1.178571429	0.434978868	1	#DIV/0!
Slc39a2 214922	-1.178583941	0.380771592	-1.178583941	0.380771592
Zfp612 234725	-1.178647985	0.201143614	1.052524773	0.352974604
Pdcd6ip 18571	-1.178717921	0.109579223	-1.178717921	0.109579223
Ksr1 16706	-1.178766399	0.35869223	-1.468185871	0.228617239
Ano6 105722	-1.17882012	0.280002513	1.046470024	0.4208153
Akap8 56399	-1.178886402	0.270989018	1.047961208	0.407948095
Sh2d4a 72281	-1.178932121	0.216760373	-1.223095226	0.149902667
Strada 72149	-1.178964807	0.259803084	-1.293762504	0.08401263
U2af1l4 233073	-1.179047411	0.14240331	-1.313621261	0.032201795
4930444A02Rik 74653	-1.179245017	0.249822611	-1.31892715	0.148478237
4933404O12Rik 66752	-1.179245536	0.26106994	-1.12150734	0.255830794

Wbp11 60321	-1.179347758	0.07761563	-1.077969532	0.146320344
Tgfb1i1 21804	-1.17938343	0.335244734	-1.362913162	0.072886331
Acot8 170789	-1.179445404	0.152927248	-1.062729884	0.321650334
Csf1r 12978	-1.179461311	0.143250532	-1.179461311	0.143250532
Eno3 13808	-1.179461434	0.290281907	-1.460506716	0.104388928
Ccdc64 75665	-1.179498328	0.416069701	1.280421331	0.368728465
Cep290 216274	-1.179600808	0.418903896	-1.864887618	0.261052046
Ndufs8 225887	-1.179770809	0.16108728	-1.141069508	0.175735954
Masp2 17175	-1.179798841	0.0023876	-1.192798418	0.002759016
BC037034 231807	-1.179810282	0.082237223	-1.099420641	0.169102017
Itpril2 319622	-1.179817231	0.322794249	1.020985875	0.477608915
Hs6st1 50785	-1.179842817	0.035897466	-1.181262703	0.029214997
Gtf2ird2 114674	-1.179921323	0.278256226	-1.653838854	0.015047724
Ppp1cc 19047	-1.179975238	0.140983645	-1.253154313	0.050702688
Amz2 13929	-1.179994566	0.150857904	-1.068364698	0.312073919
Ift46 76568	-1.180045617	0.209989582	-1.180045617	0.209989582
Tnfsf10 22035	-1.180052493	0.348163853	1.043357547	0.462623034
1110004E09Rik 68001	-1.180079468	0.206223991	-1.092134183	0.327232462
Rcor1 217864	-1.180079664	0.444498788	2.023658599	0.304156948
Wdfy4 545030	-1.180294702	0.247940702	-1.392719375	0.087539088
Slc25a37 67712	-1.180536214	0.106393485	-1.032028223	0.365049566
Abr 109934	-1.180628271	0.343155099	1.28975408	0.237738089
Bcdin3d 75284	-1.180878064	0.310006218	-1.180878064	0.310006218
Pip5k1c 18717	-1.180920661	0.041856401	-1.228011277	0.016167292
Snap29 67474	-1.180975148	0.125412786	-1.299736092	0.032282349
Odz3 23965	-1.180983377	0.241507481	1.04910357	0.407993746
Dock3 208869	-1.181004543	0.328505951	-1.535911791	0.137738471
Hnf1b 21410	-1.181010451	0.015079492	-1.181010451	0.015079492
Apoc1 11812	-1.181223405	0.306402576	-1.233790023	0.18908148
Cfl2 12632	-1.181254063	0.187562969	-1.304682434	0.050927328
Trmt2b 215201	-1.181266362	0.086309358	-1.116868491	0.166124481
A830007P12Rik 227612	-1.181267257	0.219952458	-1.080752454	0.362806124
Atxn2 20239	-1.181315508	0.106353001	-1.177102624	0.046915596
Ccr7 12775	-1.181338568	0.40127872	-2.192782516	0.152660237
Il6st 16195	-1.181378255	0.172002663	-1.066851585	0.340354113
Ston1 77057	-1.181398122	0.386586029	-1.061243569	0.437578471
Tmem51 214359	-1.181546858	0.182413871	-1.312991148	0.076175682
Plekhh3 217198	-1.181632417	0.088451247	-1.181632417	0.088451247
Lrwd1 71735	-1.181662689	0.210727284	-1.33265202	0.042449156
Hoxa2 15399	-1.181710067	0.417022793	-1.047938656	0.479862512
0610040J01Rik 76261	-1.181739622	0.019647036	-1.151213157	0.041876547
Lrp3 435965	-1.181773899	0.139960663	-1.002034332	0.492384746
Tmem180 75146	-1.18187193	0.238738414	-1.282751502	0.142356289
4732471J01Rik 654804	-1.181932446	0.406525725	-1.526084848	0.310510956
Blzf1 66352	-1.18200175	0.324221195	-1.648375365	0.073087389
Nme2 18103	-1.182031114	0.193642932	-1.117144587	0.231344586
Lonrf1 244421	-1.182043806	0.275021566	-1.028656674	0.454564615
Adhfe1 76187	-1.182097759	0.221082915	-1.031740819	0.435113169
Pigg 433931	-1.182153956	0.35016718	1.123016731	0.281889663
Ttc38 239570	-1.182200518	0.046855344	-1.223537548	0.00478893
Elmo2 140579	-1.182244735	0.153101259	-1.079817106	0.302120126
Shmt1 20425	-1.182289893	0.020166559	-1.188276367	0.004586364
Naglu 27419	-1.182302937	0.127139396	-1.099683704	0.246290621

Mrpl34 94065	-1.182463504	0.197380201	-1.067054239	0.354423999
120001118Rik 67467	-1.182639014	0.191683859	-1.335517814	0.068264706
Cdon 57810	-1.182686751	0.35660964	-1.182686751	0.35660964
Zbtb7b 22724	-1.182736608	0.048119468	-1.210994551	0.010416444
Tbc1d23 67581	-1.182962797	0.338947979	-1.570478272	0.147375224
Lmf2 105847	-1.183039036	0.037579482	-1.152394431	0.071661572
Rps6ka4 56613	-1.183064306	0.104247335	-1.190227267	0.013194608
Rwdd4a 192174	-1.18308902	0.119669969	-1.287737854	0.040497262
Nufip1 27275	-1.183160399	0.241890317	-1.192992271	0.160429752
Srsf3 20383	-1.183297529	0.223296704	-1.041259743	0.412762324
Phf3 213109	-1.183303586	0.169339862	-1.055422787	0.354467499
Copz2 56358	-1.183306886	0.183061301	-1.062905825	0.358097588
Ints3 229543	-1.183325557	0.124440722	-1.297870188	0.036414059
Nipsnap3b 66536	-1.183502695	0.104499141	-1.183502695	0.104499141
Myh14 71960	-1.183518471	0.072742354	-1.258997843	0.027167428
Trim26 22670	-1.183532262	0.122864674	-1.07616304	0.260327599
Slc10a7 76775	-1.183556547	0.246233654	-1.151142618	0.222051461
Btaf1 107182	-1.183622642	0.285716975	-1.068219209	0.41084246
Tbc1d16 207592	-1.183682481	0.143043247	-1.193699127	0.054767808
1190002N15Rik 68861	-1.183777717	0.280314684	1.004707832	0.493153752
Gabrd 14403	-1.183874881	0.408098998	-2.380122345	0.157676859
Srsf7 225027	-1.183879948	0.311762867	-1.183879948	0.311762867
Pex7 18634	-1.183926578	0.118389275	-1.304931805	0.026980562
Plxnc1 54712	-1.183991153	0.325969912	1.051561834	0.446384571
Ttll12 223723	-1.184062361	0.160844359	-1.310291496	0.024520985
Nup62-il4i1 100328588	-1.184067473	0.401409977	-1.179215768	0.419092101
Slc28a1 434203	-1.184167091	0.417313686	2.166774358	0.161185597
Spata2 78779	-1.184174535	0.179455781	-1.29837249	0.090932252
Ncf1 17969	-1.184292296	0.2680813	-1.65422384	0.012127996
Igsf3 78908	-1.184496858	0.376603391	-1.951633713	0.119335212
Exph5 320051	-1.18457728	0.29793411	1.008782606	0.488930826
Macf1 11426	-1.184583873	0.212412923	-1.033940398	0.410673182
40976 71779	-1.184589451	0.208689478	-1.062294929	0.340267131
Scand1 19018	-1.184598263	0.376455525	-1.804446466	0.160795832
Ppp2r5d 21770	-1.184612703	0.002195332	-1.151051683	0.002750946
Astn2 56079	-1.184621583	0.263957912	-1.389112782	0.05202758
Tbc1d12 209478	-1.184634694	0.332625847	-1.184634694	0.332625847
Nfyb 18045	-1.184716159	0.180232034	1.025853819	0.420029302
Cdc42ep1 104445	-1.18479094	0.121327731	-1.283364225	0.048174309
Zkscan17 268417	-1.184803166	0.10156674	-1.118345946	0.188416633
Aqp9 64008	-1.184836409	0.023203479	-1.156520373	0.048181491
Commd1 17846	-1.184878179	0.112810769	-1.009335953	0.455697684
1600016N20Rik 72000	-1.18502187	0.377282582	-1.81241281	0.161792722
Prpf39 328110	-1.18506915	0.257163773	-1.571682804	0.030586501
Usp32 237898	-1.185199989	0.332116745	-1.095676881	0.392710739
Gdf6 242316	-1.18525056	0.397496392	1.315138262	0.351077048
5031439G07Rik 223739	-1.18529244	0.007249592	-1.230988983	0.001618544
Madd 228355	-1.185331452	0.046987853	-1.125280302	0.095537706
Eif2c1 236511	-1.185466132	0.217174736	-1.370892531	0.073871498
Aco1 11428	-1.185510195	0.05404611	-1.125474269	0.109759573
Anapc4 52206	-1.185557116	0.102996204	-1.185557116	0.102996204
Foxj3 230700	-1.185620921	0.299616776	-1.007570916	0.487057093
Twf1 19230	-1.185645132	0.203023768	1.075095069	0.276774895

Commd4 66199	-1.185743705	0.18743837	1.034111837	0.391772336
Smc3 13006	-1.185753016	0.202851941	-1.331104726	0.090529816
Eri2 71151	-1.185776828	0.29104238	-1.185776828	0.29104238
Fbxl14 101358	-1.185840954	0.267889482	1.037532897	0.432223944
Luc7l 66978	-1.185903933	0.051248053	-1.221068398	0.041158619
Hdac7 56233	-1.185991711	0.155201873	-1.390394083	0.005146795
BC030336 233812	-1.186023289	0.25961273	1.14174269	0.230782895
Tgm2 21817	-1.186147446	0.039118027	-1.14206395	0.079037924
Rpa2 19891	-1.186252808	0.193469682	-1.186252808	0.193469682
Vars 22321	-1.186279908	0.048651663	-1.186279908	0.048651663
Copa 12847	-1.186333961	0.112011722	-1.112665646	0.208274215
Hipk1 15257	-1.186352642	0.212251223	-1.015970396	0.461448201
1700047M11Rik 67330	-1.186365023	0.381507521	-1.621424424	0.232180346
Man1b1 227619	-1.186548235	0.118811624	-1.313264566	0.024772404
1110037F02Rik 66185	-1.186554203	0.137701052	-1.002749851	0.489906204
Plekhg6 213522	-1.186636119	0.170585015	-1.31076703	0.037377748
Snx33 235406	-1.186740647	0.106201232	-1.098544903	0.217241969
Hdgfrp2 15193	-1.187322281	0.114699278	-1.273741303	0.0543694
Inpp5f 101490	-1.187418731	0.176427874	-1.051524001	0.369969343
Cmah 12763	-1.187610807	0.173430323	-1.061701672	0.352081287
Pspc1 66645	-1.187628651	0.294808609	-1.155816692	0.221420862
Atp8b5 320571	-1.187667298	0.367581033	-1.39864107	0.187975053
Arrdc1 215705	-1.187710707	0.263897658	-1.187710707	0.263897658
Btbd1 83962	-1.187892391	0.10343297	-1.025762486	0.390714398
Psme4 103554	-1.187901599	0.138545737	-1.082653764	0.273986298
Xrcc6 14375	-1.187924832	0.227460308	-1.187924832	0.227460308
Rab20 19332	-1.187961851	0.288906759	-1.187961851	0.288906759
Mblac1 330216	-1.187965817	0.356436261	-2.278992298	0.010111503
Sympk 68188	-1.188070046	0.085396215	-1.188070046	0.085396215
Pigy 66459	-1.18808105	0.051690297	-1.167888348	0.016209467
Khynyn 219094	-1.188139776	0.229828108	-1.052905473	0.409836055
1700113I22Rik 73635	-1.18818898	0.348978125	-1.18818898	0.348978125
Srrm1 51796	-1.188318688	0.182621165	-1.052901631	0.374639544
5830417I10Rik 100302730	-1.188349865	0.227586851	-1.002493485	0.494377276
1110057K04Rik 68832	-1.188508617	0.117833829	-1.122307697	0.081320084
Stt3a 16430	-1.188529826	0.06846116	-1.255912693	0.018894287
Mpv17 17527	-1.188531759	0.07854828	-1.274803738	0.02551084
Nos3 18127	-1.188576752	0.182678887	-1.1772446	0.155489754
Nat15 74763	-1.188601518	0.01334655	-1.153012327	0.028366507
Serhl 68607	-1.18863617	0.176099962	-1.185056102	0.156308764
Aco2 11429	-1.188706883	0.039836052	-1.27170375	0.005271656
Dtx2 74198	-1.188725373	0.258767358	-1.089097626	0.383169603
Tm9sf4 99237	-1.188782606	0.008144265	-1.228132989	0.001693566
Sema6c 20360	-1.188798572	0.3221308	-1.569931691	0.122318932
Tctn3 67590	-1.188909865	0.3806193	1.403650437	0.251424635
Fmo1 14261	-1.188925254	0.035368928	-1.07443589	0.119407509
Fam20b 215015	-1.188971076	0.143321251	-1.188971076	0.143321251
Whsc1l1 234135	-1.188983085	0.176901873	1.040630663	0.347763928
Pla2g15 192654	-1.189139103	0.143949309	-1.056233152	0.310841777
Atf7ip 54343	-1.189289235	0.150719384	-1.189289235	0.150719384
Ppih 66101	-1.189569892	0.238785002	-1.263173496	0.179390186
Fam198a 245050	-1.189602734	0.221395816	-1.356764427	0.043772165
Xiap 11798	-1.189687474	0.336928684	1.183206025	0.308082511

Mpst 246221	-1.189746597	0.101540847	-1.274596536	0.045339778
Btbd2 208198	-1.18996488	0.128039446	-1.250151095	0.092658356
Pycrl 66194	-1.189979299	0.129157262	-1.283314091	0.062903567
Gm10778 100233208	-1.190266316	0.355977118	-1.881392253	0.086276412
Marcksl1-ps4 111002	-1.190361939	0.138611315	-1.30164118	0.026626172
Nfe2l1 18023	-1.190401455	0.055425549	-1.102084521	0.090381491
Bloc1s1 14533	-1.190470199	0.15865867	-1.455474156	0.004997838
Ptpn11 19247	-1.190482186	0.200418854	-1.026473178	0.435010238
Chmp2b 68942	-1.190493478	0.206225552	-1.500351152	0.00986593
Mthfd1 270685	-1.190538202	0.324060563	1.310912687	0.161369813
Snrpa 53607	-1.190756648	0.144860141	-1.205857347	0.081254837
Map3k2 26405	-1.19077692	0.285750344	-1.146361529	0.290202708
Marveld2 218518	-1.190858314	0.27062995	-1.158294314	0.256532477
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Ubash3b 72828	-1.190939197	0.335968732	1.037180287	0.46643771
Tor1aip2 240832	-1.190945057	0.137364406	-1.076521669	0.287877729
Rufy1 216724	-1.190969824	0.10328693	-1.190969824	0.10328693
Pank4 269614	-1.191072795	0.215817307	-1.262883597	0.104075947
Hdac3 15183	-1.19112338	0.100124952	-1.238152816	0.067505265
Fbln2 14115	-1.191449385	0.386354681	-2.393278761	0.015938416
Heatr6 217026	-1.191456489	0.028332531	-1.28248408	0.000814465
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Fam169b 434197	-1.191498236	0.057097201	-1.054527972	0.186175801
Klhl28 66689	-1.191630268	0.404464512	-2.460909091	0.146965028
Mlh1 17350	-1.191631895	0.188877369	-1.357941972	0.062192833
Gm6548 625054	-1.191703375	0.135367391	-1.193563657	0.172584357
1700037H04Rik 67326	-1.19178294	0.157606183	-1.229173366	0.05612166
Evc2 68525	-1.191837102	0.331879566	-1.414122693	0.224242655
Thsd1 56229	-1.191868193	0.132750629	-1.074416542	0.275358613
Fbxo34 78938	-1.192017734	0.133486112	-1.097378392	0.262376202
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Usp34 17847	-1.192437971	0.283866315	-1.504943863	0.041350996
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Slc3a2 17254	-1.192638395	0.028682214	-1.192638395	0.028682214
Sec16b 89867	-1.192709686	0.186968968	-1.192709686	0.186968968
Cd200r4 239849	-1.192742857	0.430599145	1	#DIV/0!
Crb2 241324	-1.192742857	0.430599145	1	#DIV/0!
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Shisa9 72555	-1.192742857	0.430599145	1	#DIV/0!
Cyp4a30b-ps 435802	-1.192742857	0.430599145	1	#DIV/0!
Neto2 74513	-1.192742857	0.430599145	1	#DIV/0!
Trak2 70827	-1.192820078	0.240138348	-1.130551373	0.270635153
Zfp358 140482	-1.19283488	0.22587418	-1.236149541	0.149570614
Tgfb1 21803	-1.192871526	0.135931013	-1.089084272	0.265900179
Rhobtb2 246710	-1.192888774	0.134306948	-1.143794805	0.061074589
Dusp28 67446	-1.192909353	0.193018864	-1.067214428	0.365745316
Mup8 100041687	-1.192939758	0.360574896	-1.192939758	0.360574896
Krt8 16691	-1.193265312	0.048947494	-1.13521847	0.099439529
Ccdc66 320234	-1.1933491	0.30115201	1.095827192	0.366198229
Wrap53 216853	-1.193398383	0.131348977	-1.076587489	0.278537921
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Rbfox2 93686	-1.193569137	0.096512568	-1.093165963	0.200674903
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Cox18 231430	-1.193664328	0.161812596	-1.109292808	0.283497484
Gm2058 100039133	-1.193707926	0.208716875	1.066713535	0.337769265
Ralgapa2 241694	-1.193789927	0.287056611	-1.19503946	0.278311605
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Zfp661 72180	-1.193989233	0.303801339	1.060079938	0.42589396
Zfp667 384763	-1.194132443	0.29575558	1.075692204	0.393896883
Med13l 76199	-1.194137903	0.272356272	1.036216976	0.441358089
Slc25a38 208638	-1.194182626	0.044278201	-1.194182626	0.044278201
Zfp90 22751	-1.194240485	0.352815327	1.132042399	0.396739622
Ppie 56031	-1.194265842	0.159003347	-1.004623978	0.487245331
Uhrf1bp1 224648	-1.194401567	0.162009228	1.008553299	0.475279562
Tut1 70044	-1.194600369	0.045302485	-1.062349724	0.1564885
Mib1 225164	-1.194602204	0.163538443	1.023503514	0.424651408
Dhrs9 241452	-1.194664337	0.416250627	-1.098041369	0.467419217
Zgpat 229007	-1.194681565	0.082699104	-1.212157415	0.007472175
Gpi1 14751	-1.194696723	0.069242468	-1.169262994	0.040611335
9130019022Rik 78921	-1.194815666	0.348433287	1.127818724	0.395537699
Akr1a1 58810	-1.194989215	0.030155145	-1.247384043	0.014010061
Nup188 227699	-1.195045466	0.175874983	-1.278130311	0.099649315
Ormdl2 66844	-1.195131319	0.088597131	-1.095283056	0.182930798
Fads2 56473	-1.195191337	0.102516713	-1.276730448	0.032070558
Rab23 19335	-1.19521021	0.325948719	-1.461063298	0.195340754
Klhdc8b 78267	-1.195346217	0.237005434	-1.195346217	0.237005434
Fam111a 107373	-1.19538846	0.355460589	-1.276583848	0.321544893
Mgmt 17314	-1.195396988	0.099189251	-1.195396988	0.099189251
Cnot1 234594	-1.195468044	0.152201891	-1.04140944	0.350028703
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Lrba 80877	-1.195494828	0.147436954	-1.424277938	0.005855252
Gns 75612	-1.19562535	0.045981841	-1.19562535	0.045981841
Fabp2 14079	-1.195854435	0.123325194	-1.331074215	0.027856971
Pcx 18563	-1.195892016	0.066422358	-1.195892016	0.066422358
Anapc5 59008	-1.195899829	0.042230354	-1.269001523	0.011937135
C8g 69379	-1.195917863	0.169645219	-1.346959668	0.057611515
Ece1 230857	-1.19605451	0.019575069	-1.15141083	0.041558016
Ppfibp2 19024	-1.19608443	0.236008847	-1.569682922	0.023213359
Vac14 234729	-1.196110288	0.098960466	-1.126239685	0.183995857
Dhx40 67487	-1.196129069	0.03565019	-1.286988713	0.002832624
Homer3 26558	-1.196136188	0.209887096	-1.37194044	0.083115019
Taf5 226182	-1.196181843	0.275885386	-1.073217867	0.386015501
Ppp1r37 232947	-1.196272383	0.059480456	-1.196272383	0.059480456
BC031361 414072	-1.196284039	0.38805376	1.290499932	0.353081854
Cds2 110911	-1.196291637	0.145390707	-1.154701441	0.124008289
Kdm3b 277250	-1.19647653	0.268292994	-1.23345484	0.143246426
Fzd8 14370	-1.196588044	0.260407008	-1.032901006	0.453170018
Pcif1 228866	-1.196643984	0.007119188	-1.214274281	0.000877244
Hagh 14651	-1.1966753	0.017355946	-1.253101981	0.001591343
Mtif2 76784	-1.196796125	0.152501554	-1.073438839	0.315787363
Gripap1 54645	-1.196895701	0.122414636	-1.022645378	0.423753021
Ifi27l2a 76933	-1.196896571	0.3089922	1.251117691	0.205634827
Abcg5 27409	-1.196911418	0.127129338	-1.196911418	0.127129338

Mfi2 30060	-1.196948511	0.419650593	-6.462983333	0.044795474
Gsta4 14860	-1.196973832	0.23293473	-1.637411141	0.004161129
Usp12 22217	-1.197153529	0.093851172	-1.168600685	0.083333983
Eif2d 16865	-1.197324896	0.065755478	-1.14594096	0.123598983
Gm129 229599	-1.197432156	0.308157205	-1.404048116	0.142179457
Ric8 101489	-1.197492089	0.059066896	-1.156777032	0.027892204
Gzf1 74533	-1.197702137	0.221914574	-1.045847213	0.418593413
Cldn25 224250	-1.197924945	0.197087146	-1.359641894	0.030861641
Fam102a 98952	-1.197999509	0.257758375	1.061455313	0.362405805
Arhgef7 54126	-1.198086727	0.098877727	-1.413373329	0.001452021
Dchs1 233651	-1.198092305	0.11215093	-1.411519114	0.003954513
Zfp259 22687	-1.198119049	0.097073164	-1.198119049	0.097073164
Stk10 20868	-1.198120681	0.281455724	-1.198120681	0.281455724
Prmt7 214572	-1.198298655	0.126886947	-1.410998622	0.007408349
Actr1b 226977	-1.198310487	0.051298242	-1.263769199	0.012504614
Tbcc 72726	-1.198345608	0.074509238	-1.209351945	0.035903424
Aph1b 208117	-1.198407714	0.365257595	-1.908279758	0.124545333
Clasrp 53609	-1.19857534	0.15750981	1.015325722	0.452232598
Ngef 53972	-1.19857791	0.143735667	-1.467267263	0.00318287
Rnf157 217340	-1.198580712	0.248788559	-1.353216157	0.104386133
Rab28 100972	-1.198622332	0.269799763	-1.198622332	0.269799763
Atmin 234776	-1.198785853	0.301644766	1.256683971	0.168963115
Inpp5k 19062	-1.199198885	0.17536971	-1.363783837	0.055617287
1700034H14Rik 67105	-1.199204582	0.223920995	-1.1895407	0.130694279
Setd6 66083	-1.199239726	0.150011974	-1.110404687	0.27299533
Cep57 74360	-1.199243054	0.275976688	1.046117138	0.427980467
Glo1 109801	-1.199248627	0.117477098	-1.189054921	0.058373691
Mras 17532	-1.199306841	0.240025116	-1.663946403	0.004359485
Cyb561d1 72023	-1.199309814	0.126369652	-1.106777811	0.247266345
Elac2 68626	-1.199549706	0.023468428	-1.231175375	0.004549637
Safb2 224902	-1.199550057	0.063206487	-1.199550057	0.063206487
Rnf19b 75234	-1.199649026	0.015804137	-1.199649026	0.015804137
Ssr1 107513	-1.199662444	0.012922763	-1.106235125	0.032400336
Zcchc4 78796	-1.20003173	0.229872807	-1.20003173	0.229872807
Acads 11409	-1.20012453	0.105054711	-1.090341447	0.220461164
Ddr1 12305	-1.200161222	0.277107466	-1.11261791	0.376948722
Cldn2 12738	-1.200206076	0.177839571	-1.109046395	0.293685822
Adam17 11491	-1.200234125	0.083945742	-1.197900001	0.022840959
Tnk2 51789	-1.200345461	0.093351003	-1.136577812	0.117840383
Thoc5 107829	-1.200418829	0.183977431	-1.450016149	0.012149238
Ankrd55 77318	-1.200504172	0.386574664	1.285963437	0.356199084
Ppp1r16a 73062	-1.200505867	0.049491354	-1.200505867	0.049491354
Ccdc137 67291	-1.200517962	0.303227639	-1.41704079	0.157759493
Arl2 56327	-1.20054345	0.216969124	-1.293736703	0.160940308
Itpr3 16440	-1.20057285	0.341463793	-1.309647944	0.265121696
Zfp324 243834	-1.200595141	0.16932067	-1.267961656	0.073639736
F5 14067	-1.200652666	0.074039887	-1.17650333	0.061449783
Il18 16173	-1.200736554	0.291869226	1.035355234	0.454979377
Cd82 12521	-1.20078153	0.007026065	-1.20078153	0.007026065
Smu1 74255	-1.200825419	0.094335843	-1.200825419	0.094335843
Ccnc 51813	-1.200880986	0.180068059	-1.052937168	0.377054039
Tdrkh 72634	-1.200962826	0.347962857	-1.432225987	0.252744652
Upp1 22271	-1.201042196	0.313241125	-1.606892048	0.109628312

Pydc3 100033459	-1.201051956	0.414099221	1.266333228	0.381642687
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Cyp7b1 13123	-1.201186724	0.213695104	-1.467935231	0.030368451
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Qk 19317	-1.201217139	0.32152903	1.184565721	0.27184952
Supt7l 72195	-1.201249271	0.15253735	-1.327204791	0.003820814
Mbtps2 270669	-1.201414584	0.31605982	-1.157374094	0.343895246
Wnt9a 216795	-1.201437288	0.400980188	-1.201437288	0.400980188
Zfp397 69256	-1.201527187	0.255256468	-1.082319528	0.384887871
St3gal6 54613	-1.201711576	0.322612434	-1.668311527	0.103313308
Pigs 276846	-1.201720953	0.100054933	-1.15086783	0.174236261
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Clstn1 65945	-1.202054162	0.274347242	-1.202054162	0.274347242
Raver1 71766	-1.202067216	0.147719862	-1.202067216	0.147719862
Cox15 226139	-1.202144591	0.07799902	-1.046327188	0.301792544
Dact2 240025	-1.202162757	0.168651239	-1.195062965	0.098597186
Slc30a6 210148	-1.202207142	0.114639889	-1.202207142	0.114639889
Lactb2 212442	-1.202244916	0.265823333	1.012517221	0.480867
Bag6 224727	-1.202247367	0.014643009	-1.304044482	0.000680675
Palmd 114301	-1.202353041	0.155057162	-1.300118184	0.064109431
Dtx3l 209200	-1.202510353	0.079602557	-1.036481462	0.290615835
Mtfr1 67472	-1.202514105	0.198207772	-1.036041713	0.419871909
Txndc5 105245	-1.202624324	0.041793875	-1.356028281	0.000410427
Tgif2 228839	-1.20265012	0.352121254	-1.20265012	0.352121254
Phc1 13619	-1.202789204	0.259302634	-1.202789204	0.259302634
Aldh5a1 214579	-1.202800229	0.04130625	-1.215228562	0.006666024
Sirpa 19261	-1.202825776	0.142731921	-1.103939527	0.273298852
Fbrs 14123	-1.202961928	0.081920261	-1.202961928	0.081920261
Tlr12 384059	-1.202965084	0.228351293	1.044369319	0.343077954
Apool 68117	-1.203005172	0.163931481	-1.075242596	0.330803981
1700001L05Rik 69291	-1.20307156	0.312927701	-1.719950087	0.062676191
Siae 22619	-1.203151677	0.20877755	-1.015473688	0.463847839
Paqr4 76498	-1.203154686	0.204953343	-1.06551548	0.382287319
Rap2c 72065	-1.203163604	0.193915982	-1.101775172	0.250947593
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Lrrc61 243371	-1.203555912	0.019327682	-1.156240254	0.039352667
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BC006779 229003	-1.203752245	0.162927916	-1.056278041	0.279483636
Nufip2 68564	-1.203815044	0.254855669	1.038582265	0.426216276
Gpatch2 67769	-1.203847629	0.24471579	-1.070296952	0.392809486
Cops7b 26895	-1.203873875	0.063043674	-1.203873875	0.063043674
Papola 18789	-1.203882935	0.145117529	-1.001717228	0.494712548
Gm6710 626832	-1.203922289	0.400721857	-3.583784352	0.049621606
Ntn1 18208	-1.203978221	0.089874381	-1.203978221	0.089874381
BC032203 210982	-1.204052118	0.290948229	1.052895811	0.430676087
Osgpl1 72085	-1.204239008	0.243839382	-1.139511469	0.329147486
Atf2 11909	-1.20436561	0.28447243	-1.113968636	0.347415829
Syng1 20972	-1.20438185	0.365256196	-1.20438185	0.365256196
Zkscan3 72739	-1.204426544	0.16135261	-1.081026365	0.31099272
Dok1 13448	-1.204532575	0.148146183	-1.00268344	0.4908978
Gins4 109145	-1.20457146	0.209761312	-1.20457146	0.209761312

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Acaa2 52538	-1.204758372	0.024462895	-1.108638705	0.070716409
Immt 76614	-1.204913053	0.040635264	-1.126700877	0.079272661
Sod3 20657	-1.205079673	0.104277654	-1.289907324	0.021314336
Cpped1 223978	-1.205111774	0.098535422	-1.104471308	0.204424219
Pthr1 329384	-1.205172117	0.378774538	-1.655553952	0.197951841
Tmem198b 73827	-1.205180207	0.273636984	-1.278846691	0.112168595
Ctnnbl1 66642	-1.205234351	0.101924736	-1.285156245	0.037421695
Trap1 68015	-1.205267393	0.009264693	-1.11937119	0.023704454
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Bcr 110279	-1.205349387	0.030392995	-1.277744506	0.007473038
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Mtm1 17772	-1.205465035	0.264393934	-1.155382378	0.200799067
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Rbm19 74111	-1.205836642	0.039604323	-1.140876066	0.021174933
Utp14a 72554	-1.205983292	0.185404336	-1.097110989	0.317155635
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Commdd8 27784	-1.206166831	0.185358327	-1.520839403	0.011828274
Mospd1 70380	-1.206249051	0.351130815	1.171957295	0.369950151
Foxk1 17425	-1.206350996	0.195769693	-1.206350996	0.195769693
Synpo 104027	-1.20639552	0.318676914	1.336553194	0.139326727
Gnai2 14678	-1.206449239	0.029362517	-1.146018277	0.060419899
Atp6v1g2 66237	-1.206470215	0.289454376	-1.286436303	0.168733536
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Mbp 17196	-1.206734035	0.383413742	1.059485161	0.460585299
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Acd 497652	-1.207018183	0.1168505	-1.39857924	0.009958294
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Rxra 20181	-1.207159944	0.020361796	-1.275960633	0.00072001
Gcdh 270076	-1.207285155	0.006317421	-1.236830901	0.003498664
Mcmbp 210711	-1.207423175	0.105918298	-1.412936278	0.006680545
Tecr 106529	-1.207473388	0.074407175	-1.232484087	0.018255482
Dennd4c 329877	-1.207691506	0.246561124	-1.207691506	0.246561124
Gna12 14673	-1.20775445	0.261194248	-1.033531326	0.454937564
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Erc2 238988	-1.207874294	0.214727575	-1.310709807	0.15424042
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Sgsm2 97761	-1.208017895	0.156556243	-1.341877931	0.015589908
Tagap1 380608	-1.208047913	0.222538168	-1.208047913	0.222538168
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Sdc1 20969	-1.208275419	0.106797309	-1.209751112	0.066926756
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Fam63a 75007	-1.208527603	0.0003813	-1.181784927	0.000524295
Mttr12 268783	-1.208551244	0.203521009	-1.208551244	0.203521009

Angptl2 26360	-1.20864378	0.175402543	-1.20864378	0.175402543
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Gab2 14389	-1.208887789	0.20311939	-1.009842058	0.474568887
Nab1 17936	-1.209069588	0.037365553	-1.209069588	0.037365553
Fam171a1 269233	-1.209079122	0.125969008	-1.107489006	0.25056291
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Echdc2 52430	-1.209159783	0.004841697	-1.162253174	0.008082736
Tmem63a 208795	-1.209167694	0.100630463	-1.26767363	0.060340617
Prtn3 19152	-1.209186004	0.431203253	3.53972	0.173296754
Wdr6 83669	-1.209189976	0.128558199	-1.11504191	0.247609819
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Vps45 22365	-1.209283884	0.18395394	-1.209283884	0.18395394
Gp5 14729	-1.209306875	0.385047983	-2.497414141	0.097650894
Synj2bp 24071	-1.209467086	0.209613368	-1.098930252	0.23037566
Spnb2 20742	-1.209527736	0.291261726	-1.046223335	0.44059931
Xk 22439	-1.209557179	0.228790494	-1.485929168	0.051647396
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Commd3 12238	-1.209737565	0.045094753	-1.29529545	0.010975828
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Tmem81 74626	-1.210195706	0.277815404	-1.031062267	0.445784309
Pim1 18712	-1.210215556	0.29899093	-1.010072561	0.487216288
Epb4.1l5 226352	-1.210232241	0.096137102	-1.274069018	0.065525425
Foxa2 15376	-1.210237217	0.190201279	-1.394635718	0.066092991
Acot11 329910	-1.210474969	0.299940126	1.043636756	0.450484418
Lmbr1l 74775	-1.210487662	0.180158837	-1.49074474	0.018273065
Fndc4 64339	-1.210633805	0.0663147	-1.210633805	0.0663147
Cln5 211286	-1.210640349	0.173122475	-1.076959282	0.331065578
Rfngl 19719	-1.210766989	0.108177541	-1.367447766	0.013347167
Kif2a 16563	-1.21082552	0.296748297	-1.198998743	0.263397276
Ubox5 140629	-1.210931367	0.199551892	-1.538716821	0.017746653
Pou2f2 18987	-1.211012735	0.345794347	-1.211012735	0.345794347
Spice1 212514	-1.211052888	0.348167456	-1.046237458	0.454637711
Mthfd1 108156	-1.211255365	0.006647062	-1.158448327	0.010433223
Srsf5 20384	-1.211270815	0.305587276	-1.195035922	0.301653816
Ndufa12 66414	-1.211353354	0.046419364	-1.209128316	0.008648542
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Wars2 70560	-1.211379071	0.079175338	-1.32431397	0.010009651
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Vti1b 53612	-1.211584353	0.038847146	-1.341811639	0.001049009
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Car11 12348	-1.21161033	0.308657706	-1.466619557	0.159072296
Paccin2 23970	-1.21162072	0.0023583	-1.170500639	0.002442873
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Rasgrp2 19395	-1.211708562	0.09251229	-1.190325133	0.083411676
Ikbb 16150	-1.211866839	0.052705642	-1.211866839	0.052705642
Nol7 70078	-1.211898143	0.11820757	-1.211898143	0.11820757
Psmd14 59029	-1.2119204	0.046830045	-1.162218829	0.094077201
Cdc26 66440	-1.212023963	0.09513547	-1.212023963	0.09513547

Rell1 100532	-1.212166845	0.076389875	-1.354230169	0.008234538
Uimc1 20184	-1.212167696	0.091695407	-1.212167696	0.091695407
Six5 20475	-1.212202257	0.128896922	-1.367852758	0.02865872
Hfe 15216	-1.212373773	0.108013296	-1.274248688	0.064493043
Zfp93 22755	-1.21245766	0.310354103	-1.21245766	0.310354103
Adcy6 11512	-1.21246184	0.233507056	1.005140722	0.489905361
Ccny 67974	-1.212496655	0.176883442	-1.347965869	0.089273246
Pnn 18949	-1.212503939	0.26759611	-1.044173519	0.405977257
Supt5h 20924	-1.212618311	0.00920864	-1.173963067	0.020352683
Trpm7 58800	-1.212656911	0.261464778	-1.106813177	0.328097822
Prkca 18750	-1.212684491	0.282592911	1.187088124	0.193746731
Eng 13805	-1.212733961	0.018880941	-1.271593505	0.006495318
Dus3l 224907	-1.212834731	0.107186328	-1.319072938	0.0200047
Rbm10 236732	-1.212883457	0.076619038	-1.212883457	0.076619038
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Angptl3 30924	-1.213120553	0.129442909	-1.482167595	0.001227506
Nsun4 72181	-1.21313319	0.196896137	-1.090318976	0.349926491
Ttc4 72354	-1.213171816	0.03049696	-1.162735786	0.063428879
Pisd-ps1 236604	-1.213189615	0.04491182	-1.085294027	0.170644466
St3gal1 20442	-1.213295241	0.011872224	-1.125752437	0.03627403
Ltb 16994	-1.21330913	0.314447679	-2.110368957	0.006499867
Tjp2 21873	-1.213413814	0.223885604	-1.042618113	0.428954156
Aig1 66253	-1.213453335	0.148579059	-1.074658383	0.315261561
Msl3 17692	-1.213563598	0.069708761	-1.129153602	0.14253222
Crat 12908	-1.213617763	0.033451214	-1.213617763	0.033451214
Ints9 210925	-1.213648015	0.076117882	-1.345131408	0.008833204
Eral1 57837	-1.213653855	0.043815817	-1.284975037	0.000428756
Ap3d1 11776	-1.213697679	0.08680942	-1.201402702	0.0287065
Zfp692 103836	-1.213716556	0.276379877	-1.014476387	0.482192794
Clec4g 75863	-1.213826576	0.0565253	-1.161436827	0.107753985
Trappc6b 78232	-1.213834552	0.13904926	-1.189458034	0.076359371
Gcat 26912	-1.213883386	0.031449657	-1.354455407	0.000869519
Nfat5 54446	-1.213883687	0.259137526	1.086311857	0.291805968
9030624J02Rik 71517	-1.213888583	0.07249982	-1.287218231	0.006413499
Kdr 16542	-1.213932748	0.273824637	-1.00186628	0.497578858
Hpd 15445	-1.21398026	0.12596515	-1.272975833	0.099407972
Ttc28 209683	-1.214002751	0.280317241	-1.01565341	0.477909284
Zfp654 72020	-1.214016565	0.256161451	1.124931518	0.296056356
Uba1 22201	-1.214114945	0.002302856	-1.138252999	0.001565539
Wwp1 107568	-1.214187721	0.246169955	-1.050535963	0.430059381
Arrdc3 105171	-1.214221846	0.296751047	-1.214221846	0.296751047
Crebzf 233490	-1.214338479	0.335449862	-1.187016581	0.313958493
Vps37d 194309	-1.21436319	0.340043235	-1.396366265	0.232822414
Gm16861 100503704	-1.214366268	0.07662164	-1.214366268	0.07662164
Pde3b 18576	-1.214416509	0.271855951	-1.422122968	0.158870438
Taok3 330177	-1.214451361	0.097377742	-1.082740163	0.188077447
Ikbke 56489	-1.214524067	0.23652506	-1.1780625	0.250243975
Eif2b2 217715	-1.214539053	0.070110166	-1.214539053	0.070110166
Nradd 67169	-1.2145467	0.398291533	-1.256171314	0.404473651
Poli 26447	-1.21460017	0.260759587	-1.015390153	0.474842722
Fbxl15 68431	-1.214671668	0.253268906	1.09405178	0.356937718
Cd1d1 12479	-1.214728944	0.102290512	-1.295066748	0.040952438
Tmem19 67226	-1.214741219	0.01100407	-1.214741219	0.01100407

Timeless 21853	-1.21483876	0.22352654	-1.057098461	0.410191178
Lamb2 16779	-1.214889441	0.157002467	-1.115769993	0.284123071
Stim1 20866	-1.214921096	0.16006607	1.019036361	0.443836208
Mettl17 52535	-1.214954551	0.192897756	1.061722295	0.32919405
Entpd5 12499	-1.215058269	0.090830203	-1.215058269	0.090830203
Txlng 353170	-1.215150818	0.276299971	-1.380347631	0.190664693
Rprd1b 70470	-1.21518862	0.124453258	-1.325165847	0.030255693
Ep400 75560	-1.215411029	0.184317722	-1.137281215	0.206135639
2010107G23Rik 69894	-1.215527444	0.295662852	-1.215527444	0.295662852
Acp2 11432	-1.215581957	0.003880081	-1.16590204	0.005489821
Cyp1a2 13077	-1.215640993	0.081539631	-1.317980845	0.027474126
Mrps30 59054	-1.21566223	0.136225271	-1.483318527	0.006627897
Dera 232449	-1.215889619	0.008204346	-1.116289015	0.00980253
Irf3 54131	-1.216011889	0.043933748	-1.130800613	0.077090482
1300017J02Rik 71775	-1.216016237	0.027386853	-1.348970845	0.000636484
Rnpepl1 108657	-1.216187214	0.011567771	-1.276080497	0.000629623
Coq9 67914	-1.216237005	0.006984176	-1.201398733	0.001709679
1100001G20Rik 66107	-1.216424678	0.172322505	-1.389031608	0.013536814
Eci2 23986	-1.2165022	0.040628476	-1.297798415	0.003266945
1110021J02Rik 68597	-1.2165059	0.227877187	-1.102021738	0.330379779
Zfp334 228876	-1.216520972	0.343493297	-2.259092194	0.029287641
Cstf1 67337	-1.216524314	0.096750567	-1.414524805	0.004145206
Cbx5 12419	-1.216528347	0.113647992	-1.028267448	0.39577872
Rnf135 71956	-1.216594024	0.09657677	-1.30756431	0.013797404
Zcchc11 230594	-1.216621361	0.20536792	-1.10535092	0.330532226
Dhrs3 20148	-1.216873916	0.098306161	-1.21850132	0.025829645
Dnmbp 71972	-1.216949204	0.274643011	1.000203617	0.499739763
Eefsec 65967	-1.216965493	0.093270733	-1.10960878	0.193368102
Bola1 69168	-1.216997515	0.147051708	-1.216997515	0.147051708
Ppp1r9b 217124	-1.217304445	0.148979658	-1.09021056	0.301870639
Hdc 15186	-1.217333938	0.221314723	-1.017445636	0.466816345
Tecpr2 104859	-1.217366916	0.128888666	-1.343535153	0.051227366
Ddx18 66942	-1.217579275	0.11915836	-1.200450795	0.055293007
Mllt1 64144	-1.217591104	0.093671261	-1.256750367	0.076341416
Mkrn2 67027	-1.217595565	0.217787728	-1.031975216	0.442142969
Il6ra 16194	-1.217681282	0.30315848	1.108617468	0.370664978
Prkag2 108099	-1.217759467	0.15600458	-1.34007732	0.046638575
Pofut2 80294	-1.217842514	0.06276877	-1.217842514	0.06276877
Zfp276 57247	-1.217913216	0.089238939	-1.280231712	0.048748493
Usp19 71472	-1.217966275	0.112585653	-1.327420185	0.023147803
Myh9 17886	-1.218036357	0.097549609	-1.101977991	0.202881516
Pck2 74551	-1.218179676	0.111872623	-1.377251189	0.017843302
Epb4.1 269587	-1.218427686	0.211794524	1.093589896	0.269317404
B630019K06Rik 102941	-1.218644764	0.419490267	-6.580133333	0.095073527
Trappc1 245828	-1.218693789	0.093465146	-1.12878399	0.188703654
Dock6 319899	-1.218789621	0.080416184	-1.050636522	0.289940027
lqce 74239	-1.218806222	0.261048071	1.11374154	0.33471909
Med16 216154	-1.21888457	0.01274458	-1.116015194	0.033722574
Nf1 18015	-1.219105274	0.228552242	-1.460261917	0.082621991
Nmi 64685	-1.219190262	0.149187539	-1.010225256	0.471745909
Fam83h 105732	-1.219191527	0.043196782	-1.219191527	0.043196782
Zfyve21 68520	-1.21919413	0.158696237	-1.093953564	0.299719468
Gpr4 319197	-1.219463256	0.289271595	-2.006499212	0.001835595

Dgkz 104418	-1.219469125	0.023175533	-1.262399668	0.01593673
2810474019Rik 67246	-1.219540816	0.077394479	-1.39858245	0.006130199
Ptges 64292	-1.219668276	0.384879513	-2.099930691	0.17960658
Bcar3 29815	-1.219783426	0.101470343	-1.031677193	0.383220668
Gga1 106039	-1.219804684	0.004311434	-1.219804684	0.004311434
Fadd 14082	-1.219867493	0.073924565	-1.334205978	0.017169719
Prrt1 260297	-1.21989608	0.387191095	-2.15097535	0.178555935
Pdxdc1 94184	-1.219993764	0.036854706	-1.174317385	0.075056865
Ube2q2 109161	-1.219999547	0.166933602	-1.219999547	0.166933602
Cyp27a1 104086	-1.220041474	0.062672854	-1.230279067	0.019023305
Ubr4 69116	-1.220095406	0.016055469	-1.254485303	0.00182893
Lmo7 380928	-1.220173738	0.243055206	-1.183523132	0.21553436
Acap1 216859	-1.220181392	0.301838337	-1.637522765	0.107525861
Hist2h2aa1 15267	-1.220200161	0.203985722	-1.351600864	0.089718483
Cutc 66388	-1.220230122	0.128539243	-1.384240137	0.028030292
Acox3 80911	-1.220388473	0.156595949	-1.11470963	0.276770064
Pyroxd2 74580	-1.220390277	0.214680203	-1.212216528	0.175996803
Znrd1as 76416	-1.220429785	0.114638078	-1.305934167	0.069373807
Pdlim2 213019	-1.220831666	0.286619931	-1.5405671	0.126581665
Neur13 214854	-1.220905304	0.122675549	-1.350865526	0.044915644
Gabpb2 213054	-1.220962279	0.250095736	1.131899942	0.274551023
Inadl 12695	-1.221012688	0.244834243	-1.332650987	0.088543402
Arhgap17 70497	-1.221268356	0.184273325	-1.082639502	0.351375127
Atxn7l2 72522	-1.22128215	0.193377037	-1.22128215	0.193377037
Cyp2c37 13096	-1.221334236	0.148253961	-1.260285186	0.062107414
Prelp 116847	-1.221478805	0.074184501	-1.415576999	0.003659502
Syne2 319565	-1.221755249	0.198295735	-1.223885703	0.169553484
Syk 20963	-1.221761189	0.159698667	-1.39497739	0.050593515
Sbf2 319934	-1.221768673	0.175701381	-1.221768673	0.175701381
Tor1aip1 208263	-1.2219039	0.120221502	-1.110645272	0.244420039
Tmem188 382030	-1.222118468	0.22476367	-1.364907434	0.104097114
Midn 59090	-1.222302487	0.113436062	-1.245948806	0.026268787
Sugp2 234373	-1.222372882	0.182302239	-1.510825672	0.011078741
BC024479 235184	-1.222427966	0.305200449	-1.316385067	0.221736797
Stox2 71069	-1.222851561	0.361497103	-1.222851561	0.361497103
Smad2 17126	-1.222874488	0.12309947	-1.222874488	0.12309947
Pygl 110095	-1.223139344	0.051636384	-1.064251696	0.186943411
Tmem106c 380967	-1.223181032	0.181717839	-1.507163671	0.012793293
Chst11 58250	-1.223206359	0.350994719	-2.656775654	0.009368805
Stard10 56018	-1.223332681	0.149146597	-1.179534963	0.163270334
Cd36 12491	-1.223386422	0.141662669	-1.087422654	0.296349902
Dguok 27369	-1.223525491	0.135665433	1.008420789	0.470035388
Clpb 20480	-1.223955038	0.057806117	-1.163180851	0.112136973
Zfp777 72306	-1.224004802	0.067694049	-1.321960003	0.022810555
2310061I04Rik 69662	-1.224233206	0.005557349	-1.19099655	0.012257325
9430015G10Rik 230996	-1.224299176	0.142034061	-1.093897089	0.281476556
Slc13a2 20500	-1.224354742	0.265191272	-1.408954092	0.08534996
Ccdc91 67015	-1.224446009	0.177877423	-1.224446009	0.177877423
Qprt 67375	-1.224454232	0.021277975	-1.182590736	0.04479508
Ncoa7 211329	-1.224628607	0.404983886	1.707719016	0.288410395
Evi2a 14017	-1.224667681	0.293501811	-1.224667681	0.293501811
Ppp1r26 241289	-1.224866667	0.433068168	1	#DIV/0!
Smad3 17127	-1.224871152	0.161540358	-1.083541494	0.32774823

Ccbl1 70266	-1.224918545	0.035877413	-1.217857173	0.015698764
Wdr93 626359	-1.22492331	0.302150715	-1.854794213	0.040140729
Rnf216 108086	-1.224925045	0.151944305	1.017766674	0.425914903
Mvd 192156	-1.225013012	0.263605135	-1.482336773	0.127384144
Sifn8 276950	-1.225099274	0.380032667	-3.972802444	0.00311299
Dhrs13 70451	-1.225163614	0.178704403	-1.607348621	0.001384208
Hsd17b2 15486	-1.225218086	0.002300702	-1.191340601	0.005165222
Gtf3c6 67371	-1.225263005	0.148851559	-1.356533158	0.035463955
Etv3 27049	-1.225295158	0.327012139	-1.24189808	0.281039705
Pard3 93742	-1.225304283	0.027070483	-1.165488885	0.056529234
Slc35e2 320541	-1.225370427	0.187704336	1.055422498	0.363403772
H2-Ke6 14979	-1.225421633	0.111890979	-1.369804917	0.029284457
N4bp1 80750	-1.225444825	0.053791933	-1.287918875	0.032525974
Piga 18700	-1.225515784	0.31319329	1.111122148	0.388279679
1110008F13Rik 67388	-1.225667967	0.046919598	-1.323337783	0.001531381
Gca 227960	-1.225681217	0.347940711	1.440670469	0.07828063
Wdr59 319481	-1.225903998	0.13572511	-1.225903998	0.13572511
Mrpl35 66223	-1.225922568	0.056814898	-1.061416628	0.213973107
Beta-s 100503605	-1.225924622	0.292859308	-1.225924622	0.292859308
Blk 12143	-1.225926987	0.414148685	3.216934969	0.094488886
Trib3 228775	-1.226057381	0.236269824	-1.565437781	0.045324374
Sh3bgr 50795	-1.226166243	0.427473343	-4.58098	0.070596339
Setd1a 233904	-1.226221041	0.188142065	-1.221729916	0.166386223
Stk24 223255	-1.226249196	0.227603601	-1.030080102	0.451093582
Crym 12971	-1.226330137	0.379489652	-3.34685095	0.02323403
Adap1 231821	-1.2263943	0.347002706	-2.839175958	0.000727097
2200002D01Rik 72275	-1.226416029	0.204621545	-1.034731428	0.432613312
Adipor2 68465	-1.2264757	0.036385936	-1.150486711	0.068894934
Fam193a 231128	-1.22655835	0.154521871	-1.348435303	0.050681228
Emilin1 100952	-1.22658244	0.071185228	-1.419353553	0.002920361
Fubp3 320267	-1.226674852	0.268573206	-1.065625575	0.38854002
Gata2 14461	-1.226776828	0.272540474	-1.074771835	0.38114776
Sec23b 27054	-1.226858048	0.179244513	-1.226858048	0.179244513
Tcof1 21453	-1.226913704	0.073312899	-1.12466512	0.15010731
Pik3c2b 240752	-1.226937277	0.094716149	-1.299200453	0.046505235
Bckdk 12041	-1.226944568	0.190242324	-1.534530579	0.01286921
Apoe 11816	-1.226975618	0.187828948	-1.432347021	0.062800419
Irak1 16179	-1.227015829	0.114412154	-1.102942382	0.240005178
Als2cr4 381259	-1.227089708	0.256063515	-1.489669122	0.115360279
Gm15760 100042948	-1.22723382	0.272934537	-1.22723382	0.272934537
Taf5l 102162	-1.227297415	0.138821236	-1.227297415	0.138821236
N6amt2 68043	-1.227318455	0.297982744	-1.227318455	0.297982744
Zkscan14 67235	-1.227348399	0.20563074	-1.41474716	0.095073605
Pdilt 71830	-1.227420426	0.108897582	-1.309675594	0.025946763
Tmppe 100504715	-1.227429181	0.174308784	-1.227429181	0.174308784
Mag 17136	-1.227592811	0.380506968	-1.227592811	0.380506968
Nfic 18029	-1.22768007	0.069955385	-1.218548234	0.003519932
F11 109821	-1.227729505	0.129804002	-1.227729505	0.129804002
Nktr 18087	-1.227764996	0.24884636	-1.220578895	0.284726212
Galnt1 14423	-1.227785094	0.001861149	-1.26425066	0.000400677
2810047C21Rik1 72716	-1.227792455	0.4209036	-1.08282	0.173296754
Clock 12753	-1.227895488	0.30891272	1.21918599	0.114931781
Me2 107029	-1.228000342	0.306236315	-1.573100557	0.155445584

Nav2 78286	-1.228152215	0.113979523	-1.087845283	0.242155379
Wdr62 233064	-1.228184772	0.276790487	-1.683470047	0.055854192
Prox1 19130	-1.22823914	0.295670678	-1.042744305	0.428476614
Eya3 14050	-1.228244912	0.052210196	-1.228244912	0.052210196
B330016D10Rik 320456	-1.228311139	0.267257657	-1.228311139	0.267257657
Aldh2 11669	-1.228386962	0.053896184	-1.192084478	0.00091429
Tmem8b 242409	-1.228388681	0.199672671	-1.228388681	0.199672671
Rgs16 19734	-1.228433818	0.261305289	-1.009148892	0.487933492
4930523C07Rik 67647	-1.228484351	0.143514135	-1.311246832	0.022993528
Stard13 243362	-1.228612426	0.249466648	1.06716432	0.352366241
Lrrc59 98238	-1.22862008	0.030777199	-1.147083212	0.058348273
Gcnt2 14538	-1.228630199	0.18940503	-1.049057004	0.400804745
Dusp16 70686	-1.228674804	0.169695372	-1.151566487	0.259416664
Hmg20b 15353	-1.228681112	0.104520068	-1.228681112	0.104520068
Slc5a6 330064	-1.228691438	0.182362883	-1.439568524	0.05480554
Col18a1 12822	-1.228699508	0.004848466	-1.269159114	0.001321103
Specc1 432572	-1.228703739	0.234034214	-1.479681788	0.092752752
Adamts1 77739	-1.228851305	0.404306894	-4.537055556	0.078490172
Gsdmd 69146	-1.228859179	0.017587278	-1.17067947	0.036409867
Rfx5 53970	-1.22889611	0.319162982	-1.22889611	0.319162982
Sh3glb2 227700	-1.22903067	0.074968647	-1.239222902	0.034916819
Isoc2b 67441	-1.229054675	0.123958515	-1.170954617	0.141284246
L2hgdh 217666	-1.229112254	0.212189595	-1.363375199	0.139193226
Zfp385a 29813	-1.229234396	0.115895453	-1.229234396	0.115895453
Upf2 326622	-1.229468595	0.214580179	-1.089098461	0.360494642
Ambp 11699	-1.229516161	0.097551973	-1.311797622	0.058971357
Lgals3bp 19039	-1.229544222	0.008270465	-1.339747881	0.000134051
Ppox 19044	-1.229591817	0.154334448	-1.057415012	0.34628906
B230208H17Rik 227624	-1.229709045	0.048341105	-1.308479518	0.020411228
Zbtb8a 73680	-1.229935353	0.151053895	-1.229935353	0.151053895
Twsg1 65960	-1.230069558	0.242645353	-1.230069558	0.242645353
Gsk3b 56637	-1.230088363	0.249490551	1.013108762	0.468307955
Pik3cg 30955	-1.230120243	0.362168543	1.178060395	0.396752683
B3galt4 54218	-1.230227668	0.305301696	1.061564844	0.438569312
Zfp148 22661	-1.230322275	0.165097801	-1.135529645	0.270432959
Epha4 13838	-1.230366683	0.377641563	1.318577386	0.348231523
Rfx4 71137	-1.230409066	0.324272556	1.110261349	0.405051306
Tmx4 52837	-1.230456117	0.283631384	-1.329091184	0.190335722
Olfml1 244198	-1.230498606	0.173771175	1.038372299	0.401776435
Rptor 74370	-1.230525389	0.084412446	-1.116594047	0.173701805
Nudt7 67528	-1.230624657	0.04309955	-1.167351487	0.088547933
Ebag9 55960	-1.230624984	0.118138192	-1.334796335	0.037530283
Galt 14430	-1.230739371	0.07753969	-1.115287041	0.152354287
Rg9mtd3 69934	-1.230895722	0.265219565	-1.230895722	0.265219565
Slc19a2 116914	-1.230947755	0.23322913	-1.040314461	0.440838506
Prps2 110639	-1.23097527	0.212498978	-1.446220642	0.088451143
Zfp780b 338354	-1.230999586	0.227446024	-1.495472884	0.078359819
Hivep1 110521	-1.231020238	0.248669543	1.129456463	0.298392806
3110062M04Rik 78412	-1.231442035	0.2882876	-1.32988524	0.211689951
Abcg2 26357	-1.231544592	0.246519798	-1.281757195	0.16542273
lyd 70337	-1.231560558	0.072914876	-1.231560558	0.072914876
Gnai3 14679	-1.231565271	0.26322752	-1.076132361	0.397900682
Olig1 50914	-1.231642438	0.337986132	-1.189259879	0.367199444

Plekha4 69217	-1.231661499	0.373539609	1.586432029	0.185997352
Prr12 233210	-1.231693704	0.030409953	-1.231693704	0.030409953
Tnks1bp1 228140	-1.23190513	0.014293532	-1.297084411	0.001061267
Itgb3bp 67733	-1.231979683	0.407398993	1.282144901	0.403677687
Prkdc 19090	-1.232068761	0.244108271	1.159484452	0.211683066
Galm 319625	-1.232069185	0.000888012	-1.155623922	0.000168982
Trp53i13 216964	-1.232147951	0.212906632	-1.172739812	0.248854487
Rab8a 17274	-1.23217037	0.003515009	-1.249795779	0.004532928
Gmfg 63986	-1.232170541	0.258141182	-1.884073956	0.005352505
Dmtf1 23857	-1.232235717	0.097442933	-1.323678307	0.025267772
Cyb5r1 230582	-1.232370465	0.137130216	-1.175516719	0.158633765
Slc38a1 105727	-1.232560776	0.229922142	-1.425267824	0.125094982
Slc16a13 69309	-1.232714147	0.227747409	-1.585605941	0.03524665
Magi3 99470	-1.232733441	0.302309297	1.322902887	0.142241819
Slc16a5 217316	-1.23275569	0.006006008	-1.335037099	0.000163371
Ift27 67042	-1.232759943	0.294230708	1.294101001	0.052635624
Idh1 15926	-1.232866364	0.064793208	-1.133486141	0.129002809
Dnajc13 235567	-1.232868733	0.079600571	-1.130441149	0.163394821
Nxt2 237082	-1.232927218	0.246876255	-1.201761141	0.227119975
4930429B21Rik 67576	-1.232990753	0.409410548	-2.76078	0.173296754
4930578N16Rik 75051	-1.232990753	0.409410548	-2.76078	0.173296754
1700024P16Rik 242594	-1.233214066	0.298941865	-1.415044725	0.138435679
Gigyf2 227331	-1.233259453	0.187894441	-1.034491434	0.422143615
Map2k6 26399	-1.233308973	0.26840616	-1.807360969	0.02664825
Pla2r1 18779	-1.233319511	0.368616021	-2.156249	0.141354078
Sf3a1 67465	-1.233524074	0.075337807	-1.117114925	0.153373966
Srsf4 57317	-1.233587228	0.042962523	-1.16043144	0.088255475
Kcnn1 84036	-1.233588296	0.111526043	-1.363143104	0.041647344
Pyhin1 236312	-1.233686769	0.325082022	1.091711219	0.424141403
Cited2 17684	-1.233885271	0.215963579	-1.288752819	0.156416898
Capn5 12337	-1.233916358	0.237069963	-1.233916358	0.237069963
Myst1 67773	-1.233957751	0.116885723	-1.31042036	0.064529452
Tnip1 57783	-1.234032672	0.089765155	-1.342861055	0.036517085
Dyrk1a 13548	-1.234045933	0.131787987	-1.36203267	0.060992174
2310015A10Rik 69548	-1.234087674	0.240328602	-1.106159198	0.363711256
Cyp4v3 102294	-1.234232425	0.073743538	-1.250983204	0.036993172
Txnrd3 232223	-1.234246409	0.236344263	-1.496246279	0.026983799
Syde1 71709	-1.234275575	0.134529969	-1.234275575	0.134529969
Psd3 234353	-1.234315328	0.266630214	1.068589792	0.392600693
Ppp1ca 19045	-1.234315858	0.020256838	-1.282904538	0.012774795
Ap1g1 11765	-1.23454036	0.169408181	1.036281068	0.404307486
Ttc37 218343	-1.234584024	0.070905273	-1.237307747	0.028272343
Zfhx3 11906	-1.234739542	0.095558449	-1.033681688	0.374885705
Nat6 56441	-1.234879395	0.060120019	-1.130856574	0.113084569
Ybx1 22608	-1.234923243	0.007057006	-1.253704671	0.001965477
Laptm5 16792	-1.235148349	0.047929481	-1.281668837	0.00321758
Tbc1d20 67231	-1.235222979	0.222603699	-1.077264054	0.381184704
Sntb2 20650	-1.235304633	0.283874925	1.223684853	0.2320602
Mink1 50932	-1.23537809	0.123886787	-1.182699669	0.145343312
Sall2 50524	-1.235522558	0.301011423	-1.235522558	0.301011423
Snpc5 330959	-1.235635274	0.093449459	-1.235635274	0.093449459
Gm8994 668137	-1.235675617	0.26039119	1.182841442	0.226476493
Emp3 13732	-1.235696106	0.336173916	-1.131276815	0.359715189

Cnot10 78893	-1.235797595	0.058731517	-1.363812574	0.007952671
Aldob 230163	-1.235855884	0.145380403	-1.235855884	0.145380404
Trappc8 75964	-1.236074844	0.309383289	1.346323377	0.146998955
Paip2 67869	-1.236115335	0.04628243	-1.151693797	0.090923569
Lmf1 76483	-1.236229618	0.124036432	-1.236229618	0.124036432
Cap1 12331	-1.236304055	0.036493121	-1.320171455	0.011636249
Dcxr 67880	-1.236628237	0.069851038	-1.348011017	0.021167871
Itpr2 16439	-1.236702204	0.076552752	-1.062580934	0.289453457
Agxt2 268782	-1.236805375	0.187038556	-1.070849084	0.373710029
Adamts5 66548	-1.23680843	0.294314628	-1.23680843	0.294314628
Msn 17698	-1.236826727	0.268090524	1.000912688	0.498869518
Pde7b 29863	-1.237066394	0.368708421	-1.548979625	0.242155324
Myo18a 360013	-1.237083025	0.023473418	-1.391312484	0.00026879
Hyal3 109685	-1.237336321	0.379340985	1.230602636	0.395387796
Tmem63b 224807	-1.237386313	0.008017329	-1.233389695	0.000709022
Zfp526 210172	-1.237408176	0.171039008	-1.133419381	0.293374088
Lrp11 237253	-1.237424164	0.333604971	-1.237424164	0.333604971
Hist1h4c 319155	-1.237431459	0.400922831	1	#DIV/0!
Hist1h4j 319159	-1.237431459	0.400922831	1	#DIV/0!
Coq2 71883	-1.237488479	0.098349513	-1.404340732	0.014363421
Wasf2 242687	-1.237541953	0.221260331	1.098349942	0.280548761
Tlr5 53791	-1.237542507	0.338306476	-1.705426404	0.167446261
Heatr7a 223658	-1.237649348	0.090485586	-1.128815747	0.18662626
Stk16 20872	-1.237656364	0.086163804	-1.10731633	0.168369245
Fbxw8 231672	-1.237940405	0.01479329	-1.176377983	0.029757516
Ppil4 67418	-1.237990356	0.123605926	-1.399078402	0.035221789
Rps6kb2 58988	-1.238074547	0.086108073	-1.155005895	0.169709058
Pfkfb2 18640	-1.23808583	0.322583973	-1.044624193	0.440413763
Ccl5 20304	-1.238106804	0.231472639	-1.433283017	0.070091878
Ift88 21821	-1.238148451	0.239159914	-1.242052544	0.203704165
Ugt1a2 22236	-1.238229607	0.279529383	-1.0414596	0.42639597
Stxbp4 20913	-1.238235718	0.282278968	-2.009497975	0.004463408
Dnm2 13430	-1.238365457	0.005440931	-1.29964043	0.001002626
Gmcl1 23885	-1.238438666	0.243012215	-1.14969036	0.329893223
Wdr36 225348	-1.238444393	0.143058034	-1.141846039	0.245638351
Pusl1 433813	-1.238701782	0.165312131	-1.238701782	0.165312131
Tcirg1 27060	-1.238704502	0.018088776	-1.238704502	0.018088776
Izumo4 71564	-1.238737879	0.221838052	-1.499150494	0.080156681
Tmem128 66309	-1.238738329	0.045932871	-1.238738329	0.045932871
Oxsm 71147	-1.238794502	0.144660588	-1.267209583	0.096956141
Gm3219 100041231	-1.238846032	0.229389565	-1.164384946	0.202916625
Med1 19014	-1.238950714	0.156664149	-1.256773042	0.098334876
Rqcd1 58184	-1.239004677	0.098543128	-1.157618704	0.187282299
Pcdhgc3 93706	-1.239087672	0.364708619	1.358855336	0.302417671
Mfsd6 98682	-1.239253323	0.294639124	-1.614673615	0.133414628
Pla2g6 53357	-1.239256701	0.166368234	-1.236373763	0.116365355
Habp2 226243	-1.239285621	0.031915124	-1.337005947	0.005509696
Zdhhc8 27801	-1.239342712	0.008683106	-1.296159347	0.003016463
1810048J11Rik 67708	-1.239382106	0.259477788	-1.548280291	0.107326784
Neu1 18010	-1.239417683	0.001843632	-1.217846954	0.004732295
B4galt7 218271	-1.239424196	0.103206437	-1.192234995	0.057559599
Epn1 13854	-1.239425861	0.129920352	-1.239425861	0.129920352
Ell 13716	-1.239484416	0.122362202	-1.093567211	0.261711455

Parp2 11546	-1.239515238	0.206637844	-1.239515238	0.206637844
Pdlim7 67399	-1.239588499	0.188006664	-1.507828956	0.037540369
Gpr114 382045	-1.239685012	0.36444659	1.42769032	0.258414798
Zc3h18 76014	-1.239717644	0.080622276	-1.150333903	0.162870489
Siglece 83382	-1.239756248	0.278084789	-1.598881667	0.022553885
Cpne2 234577	-1.23989071	0.14452816	-1.461282178	0.022131317
Bckdha 12039	-1.239940543	0.045531566	-1.378793958	0.003925296
Plbd1 66857	-1.240048261	0.170314106	-1.240048261	0.170314106
Bgn 12111	-1.240138899	0.080476101	-1.37090349	0.020110368
Sh2b3 16923	-1.240192501	0.126337933	-1.103843047	0.264406083
Hn1 15374	-1.240250937	0.182577005	-1.303699446	0.145764654
Camk2n1 66259	-1.240265409	0.093829621	-1.407230517	0.01281191
Rab10 19325	-1.240463904	0.142548599	-1.378946201	0.06746274
Ttc9c 70387	-1.240483076	0.186764048	-1.008389141	0.473975532
Tbc1d1 57915	-1.240569579	0.263091328	-1.082869596	0.4128573
Parp12 243771	-1.240620805	0.122343537	-1.015867535	0.451429573
Cpeb1 12877	-1.240768618	0.403386724	2.034446561	0.230763487
Dap 223453	-1.240862029	0.003277154	-1.204539214	0.007552201
Pde4dip 83679	-1.240982636	0.140372604	1.018886282	0.426702093
Zfp946 74149	-1.241048826	0.21756221	-1.347353928	0.142801557
Scaf1 233208	-1.241107888	0.002226979	-1.241107888	0.002226979
Acsl5 433256	-1.241178252	0.018078661	-1.262046085	0.002077577
BC064078 408064	-1.241206809	0.406475112	-2.8	0.173296754
Mgl2 216864	-1.241206809	0.406475112	-2.8	0.173296754
Gbp5 229898	-1.241206809	0.406475112	-2.8	0.173296754
Trmt5 76357	-1.241229117	0.286884774	-1.241229117	0.286884774
Pds5a 71521	-1.241268968	0.24171185	-1.245222018	0.188974949
Ccdc109a 215999	-1.241329047	0.337875743	-2.197578242	0.058438409
Preli1 66494	-1.241338161	0.023343452	-1.271789296	0.001598047
Aplf 72103	-1.241518746	0.322241537	-1.484426795	0.175661402
Ppard 19015	-1.241530785	0.025632366	-1.162150337	0.022526175
Cfdp1 23837	-1.241541183	0.068428248	-1.241541183	0.068428248
C1qtnf2 69183	-1.241552896	0.345498322	-1.964746675	0.131301799
Nrap 18175	-1.241808287	0.309413638	-1.464879894	0.130455137
Rasa1 218397	-1.241875682	0.182961421	-1.078014981	0.35062697
Ccdc90a 76137	-1.241941835	0.118947547	-1.030129468	0.414884445
Map3k14 53859	-1.242276011	0.259064567	-1.053008681	0.439904938
Pnrc2 52830	-1.242325789	0.174135942	-1.242325789	0.174135942
Nck2 17974	-1.24246534	0.253067037	-1.023544422	0.469997565
Ccnh 66671	-1.242499732	0.177431461	-1.46069046	0.055379822
4933411K20Rik 66756	-1.242660707	0.204689872	1.104621467	0.253362382
Ang 11727	-1.242676978	0.127485526	-1.511881811	0.007111402
Atp5s 68055	-1.242827942	0.264248438	-1.363190802	0.187424873
Hmbs 15288	-1.242829687	0.065017226	-1.242829687	0.065017226
Tctn2 67978	-1.242879437	0.285668435	-1.242879437	0.285668435
Dnajc4 57431	-1.242917531	0.147299415	-1.242917531	0.147299415
Pcsk6 18553	-1.242945281	0.052889706	-1.242945281	0.052889706
Nup107 103468	-1.242991582	0.289952817	-1.658731751	0.093869103
Mrpl39 27393	-1.242993656	0.017495931	-1.139002641	0.056419554
Psme1 19186	-1.243059532	0.143630858	-1.256328425	0.082621815
Sbk1 104175	-1.243246014	0.147967047	1.029231811	0.398857923
Bhlha15 17341	-1.243381278	0.405985266	-2.76078	0.173296754
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Hsd17b6 27400	-1.243476099	0.182949427	-1.398770691	0.100006627
Kdm1b 218214	-1.243633999	0.36525879	1.950250532	0.01965004
Armc1 74252	-1.243857576	0.003623733	-1.243857576	0.003623733
Prkab1 19079	-1.243901588	0.00937004	-1.356993649	0.000196571
Inhbc 16325	-1.243913283	0.087368297	-1.505526578	0.001209814
Rexo4 227656	-1.243963381	0.066160276	-1.200998958	0.018517086
Pxn 19303	-1.244005626	0.055589792	-1.186977886	0.108640138
Hibadh 58875	-1.244121367	0.034688598	-1.324283434	0.013056885
Mfap4 76293	-1.244151422	0.283213273	-1.598422312	0.127834244
Cpt2 12896	-1.244167132	0.001107035	-1.222248706	0.002829027
Ptpn13 19249	-1.244190322	0.298757075	-1.244190322	0.298757075
Dmap1 66233	-1.244362238	0.064634558	-1.394952573	0.00580463
Lass2 76893	-1.244370867	0.002407478	-1.235890871	0.000341166
Sall1 58198	-1.244389745	0.203021984	-1.244389745	0.203021984
Lgr5 14160	-1.244418753	0.324754909	-1.445849723	0.204866197
Upb1 103149	-1.24445721	0.002289704	-1.197198763	0.002360796
Zc3h12d 237256	-1.244466828	0.208666159	-1.422294356	0.087174688
Map2k4 26398	-1.244473087	0.213797728	1.064287845	0.38664499
Ppm1l 242083	-1.244571325	0.131824229	-1.08327704	0.280104744
Akr1c12 622402	-1.244763047	0.052967515	-1.35622334	0.012694397
Kctd21 622320	-1.244989539	0.156358131	-1.406373742	0.026149361
Tfip11 54723	-1.245033824	0.021772429	-1.389142608	0.000898288
Zbtb49 75079	-1.245086557	0.222170186	-1.040423252	0.428719804
Rspo3 72780	-1.245116254	0.248792195	1.009498011	0.486109431
Klhl13 67455	-1.245165307	0.333713391	-1.768942156	0.161409843
Zfp944 319615	-1.245358802	0.242314513	-1.857806429	0.008597623
Rsph9 75564	-1.245438434	0.40497268	-2.8202	0.173296754
Zfyve9 230597	-1.245542305	0.191980868	-1.080359456	0.357362028
Cyp2d22 56448	-1.24556855	0.014171407	-1.318866339	0.000589429
Secisbp2 75420	-1.245607425	0.118458328	-1.141503803	0.229083965
Mterfd2 69821	-1.245742056	0.086885836	-1.224181718	0.043689917
Abcb8 74610	-1.245840107	0.021679489	-1.193010005	0.045528861
B230219D22Rik 78521	-1.245996442	0.355533551	1.127888835	0.361440648
Med12 59024	-1.246048321	0.013913302	-1.130713455	0.027270574
Als2 74018	-1.246101106	0.011687106	-1.186616216	0.019884254
Fam78a 241303	-1.246107568	0.232619658	-1.08341517	0.396955508
Stx1b 56216	-1.246217509	0.365272158	-1.713821207	0.204246189
Polg 18975	-1.246381726	0.075881338	-1.246381726	0.075881338
Noc4l 100608	-1.246568042	0.052042877	-1.147250729	0.105289003
Pdlim5 56376	-1.246604288	0.289747109	1.297687839	0.112907731
Cr1l 12946	-1.246789931	0.059958053	-1.144942553	0.118350054
Nr1h3 22259	-1.246888417	0.043732736	-1.154059117	0.081050324
Lrrc1 214345	-1.246936683	0.371683001	-1.246936683	0.371683001
Vegfa 22339	-1.24695973	0.130758842	-1.34080284	0.088151495
Irf5 27056	-1.247069006	0.154243473	1.008915363	0.477747122
Acbd5 74159	-1.247098436	0.265290956	-1.137335329	0.330734538
Nit2 52633	-1.247275903	0.033708794	-1.161955317	0.059824599
Fam177a 73385	-1.247336846	0.193084801	-1.205843392	0.123638566
Pamr1 210622	-1.247476281	0.126640786	-1.089585848	0.267452607
Osbp2 74309	-1.247551784	0.249194645	-1.803898599	0.024727516
Phyhd1 227696	-1.247562924	0.072483355	-1.389273178	0.012993852
Ftl1 14325	-1.247606452	0.161288609	-1.294589329	0.075628353
Inhbe 16326	-1.247610511	0.132127202	-1.247610511	0.132127202

Strbp 20744	-1.247869646	0.150101161	-1.110828672	0.29638285
Gstz1 14874	-1.247975454	0.000194952	-1.274364093	7.19717E-05
Fam193b 212483	-1.248098415	0.061732141	-1.248098415	0.061732141
Ptgr1 67103	-1.248103876	0.282285543	-1.886161381	0.031848755
Src 20779	-1.248411916	0.068085712	-1.072902029	0.247355827
Snrnp200 320632	-1.248474576	0.106427007	-1.114770234	0.223153538
Hps5 246694	-1.248480568	0.197742429	-1.248480568	0.197742429
2310068J16Rik 70281	-1.248537997	0.401212986	-1.555558606	0.363361927
Fos 14281	-1.248598274	0.257965717	-1.494316702	0.011059258
Cat 12359	-1.24865314	0.04173515	-1.343110253	0.013065862
Lpp 210126	-1.248688023	0.074125388	-1.114417927	0.126289531
Pdcd7 50996	-1.248740274	0.221039419	-1.572040376	0.055768317
Rad52 19365	-1.248843867	0.220571916	-1.629354597	0.028336023
2410002F23Rik 668661	-1.248868289	0.184815486	-1.299254857	0.116135395
Aldh4a1 212647	-1.248907741	0.028404951	-1.314785971	0.014476682
Hsd11b1 15483	-1.249039151	0.064159713	-1.134217839	0.1207841
Tmem106a 217203	-1.249051177	0.101318001	-1.402033469	0.027149779
Pgrmc1 53328	-1.249062915	0.102751445	-1.226317028	0.083349859
Wdr11 207425	-1.249067727	0.116330304	-1.127032999	0.227909529
Slc38a10 72055	-1.249142602	0.043962862	-1.296792559	0.035664782
Sar1b 66397	-1.249296098	0.0104231	-1.213517893	0.006077793
AW112010 107350	-1.249356958	0.075945741	-1.318429811	0.039253339
Mrpl46 67308	-1.249540937	0.164881263	-1.205463604	0.222173017
Fibin 67606	-1.249563636	0.414087512	-5.7452	0.078237796
B4galt1 14595	-1.249670744	0.029878294	-1.116044868	0.107132898
Dnm3 103967	-1.249786634	0.335524091	-1.126641657	0.415701522
Baz2b 407823	-1.249813616	0.305868175	-1.309789728	0.262637496
Cpsf1 94230	-1.249841954	0.018805496	-1.206151324	0.002763202
Slc11a1 18173	-1.250225862	0.090281829	-1.277634294	0.050099371
Aldh6a1 104776	-1.250270976	0.141731664	-1.155523351	0.238373931
B4galt6 56386	-1.25037815	0.186230034	-1.229521022	0.074698993
Pkd2l2 53871	-1.250547371	0.352541338	-1.250547371	0.352541338
Ppp1r7 66385	-1.250552948	0.049284689	-1.158863928	0.100764664
Tspan17 74257	-1.250658884	0.202239789	-1.083374935	0.37750056
Cxx1a 66158	-1.250706218	0.061120364	-1.231926438	0.046488202
MyI9 98932	-1.250890802	0.366242534	1.1662312	0.348543862
Dcbld1 66686	-1.250904962	0.205105165	-1.460368832	0.097103173
Ifitm2 80876	-1.251093861	0.086311298	-1.21018055	0.06831173
Rock1 19877	-1.251228751	0.201323717	-1.173320276	0.228114243
2310047M10Rik 71923	-1.251269285	0.118062578	-1.120017361	0.235615103
Hrct1 100039781	-1.251271519	0.270803035	-1.251271519	0.270803035
Fam20c 80752	-1.25131196	0.00679253	-1.307573371	0.00079541
Cml1 66116	-1.251356072	0.201274796	-1.798072241	0.000935398
Pomc 18976	-1.251374587	0.344281191	1.1044618	0.4341432
Mlf1ip 71876	-1.251428714	0.393034783	1	#DIV/0!
Dnajc2 22791	-1.251481309	0.116614738	-1.098150245	0.248744866
Hist1h4a 326619	-1.251498342	0.394960838	-1.0353	0.173296754
Hist1h4k 319160	-1.251498342	0.394960838	-1.0353	0.173296754
Cacybp 12301	-1.251535712	0.06668855	-1.354401248	0.01038859
Mup6 620807	-1.251591997	0.370335334	-2.327468391	0.146043794
Mr1 15064	-1.251592495	0.300097469	-1.559744779	0.179748894
Ccnd1 12443	-1.251644248	0.174943386	-1.088639536	0.347621107
Snx14 244962	-1.251747399	0.217852901	-1.051803686	0.423817373

2810405K02Rik 66469	-1.251815386	0.202261213	-1.251815386	0.202261213
Pon3 269823	-1.251831101	0.071999679	-1.139934902	0.147309001
Gapdh 14433	-1.251942371	0.091501984	-1.315087282	0.071868139
Solh 50817	-1.252140583	0.137670849	-1.252140583	0.137670849
Zfp58 238693	-1.252193875	0.270391818	-1.252193875	0.270391818
A230050P20Rik 319278	-1.252227967	0.046726321	-1.45069473	0.000982268
Ptk2 14083	-1.25228452	0.090919884	-1.036796277	0.363959445
Nckap5 210356	-1.252303122	0.368399993	1.369889374	0.321727643
Stx7 53331	-1.252339346	0.218657872	-1.042167474	0.436100817
Vcpip1 70675	-1.252349782	0.250025798	1.061222874	0.39168966
Tnfrsf11b 18383	-1.252379513	0.393522657	-5.179251995	0.051053893
Al848100 226551	-1.252571003	0.270593227	-1.953493867	0.005793574
Tmem129 68366	-1.25281057	0.074360521	-1.283644504	0.018969584
Cops4 26891	-1.252961359	0.053460693	-1.391680372	0.006169262
Gm6251 621697	-1.25305474	0.141489289	-1.095609735	0.298667599
Lgals9 16859	-1.253121062	0.021641168	-1.316839124	0.010725574
Snx9 66616	-1.253178942	0.141679766	-1.107476272	0.27859283
Tiam1 21844	-1.253203981	0.328294879	-1.584610843	0.217334142
Usp22 216825	-1.253220663	0.192406706	-1.637367034	0.017283115
Tra2b 20462	-1.253251612	0.088101469	-1.263802738	0.029956829
Atxn7 246103	-1.253298904	0.23847025	1.03608996	0.434515756
Gabbr1 54393	-1.253386945	0.2316725	-1.253386945	0.2316725
Lphn1 330814	-1.253601675	0.096164071	-1.41789817	0.020124166
Tmem134 66990	-1.253617046	0.011072195	-1.335262781	0.001545242
Mfsd7a 243197	-1.25364117	0.143594826	-1.25364117	0.143594826
Prkrir 72981	-1.253664382	0.009620073	-1.210092474	0.020701908
S100a8 20201	-1.253797875	0.401267692	1.255130842	0.411829119
Acsm3 20216	-1.253853108	0.137692984	-1.139135828	0.2483706
Hoxb5 15413	-1.253949938	0.279822397	-1.253949938	0.279822397
Ift172 67661	-1.254047091	0.06075068	-1.254047091	0.06075068
Fuca1 71665	-1.254063036	0.049698037	-1.254063036	0.049698037
Zfx 22764	-1.254173617	0.194836723	-1.385858863	0.058770378
Zfp790 233056	-1.254185489	0.249114682	-1.254185489	0.249114682
Dpys 64705	-1.254232165	0.002663032	-1.220176656	0.006389456
Stx8 55943	-1.254307151	0.19219353	-1.465498246	0.083364124
Idh3g 15929	-1.254354663	0.004725741	-1.191438128	0.006644886
Pcyox1 66881	-1.254421978	0.07939839	-1.324478572	0.05666905
Zbed3 72114	-1.254549677	0.060120791	-1.148135245	0.122582558
Hmha1 70719	-1.254562255	0.052078634	-1.1654319	0.105431836
Ankrd16 320816	-1.254579933	0.160618549	-1.254579933	0.160618549
Gsta3 14859	-1.254820689	0.062354538	-1.434925479	0.004129247
Mtor 56717	-1.254899113	0.061220241	-1.254899113	0.061220241
Slc25a32 69906	-1.254938257	0.315817189	1.094973071	0.421742541
Ralgapb 228850	-1.254984627	0.158413923	-1.342435416	0.041503798
Slc37a3 72144	-1.255018834	0.026712689	-1.255018834	0.026712689
Mylk 107589	-1.255109459	0.127014611	-1.141942857	0.197340284
Ric8b 237422	-1.255133531	0.068672427	-1.310914948	0.044727563
Mapk1ip1 69546	-1.25514679	0.087600607	-1.065612085	0.310940147
Cdr2l 237988	-1.255306591	0.108497193	-1.155448506	0.200636173
Dhx32 101437	-1.255359243	0.064613692	-1.255359243	0.064613692
Abcc9 20928	-1.255517947	0.201378238	1.059361794	0.391811258
Entpd6 12497	-1.255542433	0.135837093	-1.081623339	0.297744075
Dna2 327762	-1.255753253	0.093107929	-1.263853122	0.070373493

Stab1 192187	-1.255804213	0.006429307	-1.271847221	0.000682181
Bmp8b 12164	-1.255828959	0.401589961	-2.8202	0.173296754
Vcl 22330	-1.256035918	0.208184691	-1.168944813	0.271045544
Apob 238055	-1.256086277	0.015836083	-1.33867608	0.000353899
2610005L07Rik 381598	-1.256235151	0.203158201	-1.468249931	0.096772936
Hadh 15107	-1.256326416	0.007455118	-1.256326416	0.007455118
Serpina3n 20716	-1.256328979	0.07918091	-1.371621323	0.011301036
Rab1b 76308	-1.256365512	0.017810604	-1.256365512	0.017810604
Sfswap 231769	-1.25637092	0.017055395	-1.408357549	0.000272458
1810043G02Rik 67884	-1.256403413	0.070942733	-1.338019817	0.027359399
Fgd5 232237	-1.256442127	0.170314029	-1.182677387	0.19839728
Gbe1 74185	-1.256459913	0.081882428	-1.181918724	0.051613396
Rab43 69834	-1.256523402	0.035020682	-1.105982844	0.128688268
Fancc 14088	-1.256615525	0.149653125	-1.137760314	0.27634445
Cmb1 69574	-1.256716323	0.001632867	-1.217820449	0.001308136
Cgn 70737	-1.256743904	0.10350568	-1.366475435	0.055494212
Epb4.112 13822	-1.256942535	0.214581896	1.106066857	0.278368805
Got2 14719	-1.257058221	0.001985889	-1.257058221	0.001985889
4930404N11Rik 432479	-1.257123332	0.302790538	-1.95955702	0.059229023
Ctdp1 67655	-1.257261704	0.056075354	-1.239731756	0.020586939
Rgs3 50780	-1.257296376	0.101886556	-1.135483821	0.209646708
Tln2 70549	-1.25732012	0.159888089	-1.25732012	0.159888089
Acbd4 67131	-1.257363563	0.092014879	-1.257363563	0.092014879
Alkbh3 69113	-1.257533808	0.070981658	-1.378679226	0.023311065
Ccdc132 73288	-1.257560679	0.19707389	-1.257560679	0.19707389
Uroc1 243537	-1.257843129	0.068395203	-1.438856144	0.003127522
Fam123a 72125	-1.25787034	0.335112066	1.077347807	0.448394543
Apom 55938	-1.257888616	0.189469601	-1.275335668	0.132798585
2410002O22Rik 66975	-1.257909387	0.061561087	-1.379828451	0.016836749
Slc47a1 67473	-1.258348091	0.112110028	-1.119754262	0.234611548
Zbtb9 474156	-1.258604389	0.073367877	-1.373046578	0.009393522
3110040N11Rik 67290	-1.258687559	0.155966169	-1.096608797	0.320318248
Nr2c1 22025	-1.258688418	0.069492608	-1.258688418	0.069492608
Gls 14660	-1.258731185	0.154438888	-1.258731185	0.154438888
Mrps11 67994	-1.258814934	0.145358958	-1.014984811	0.463663154
Uggt2 66435	-1.258829595	0.336638718	-1.459026591	0.237981721
Lims2 225341	-1.25884687	0.054616698	-1.33244538	0.033539919
Zfp187 432731	-1.258896158	0.166657592	-1.258896158	0.166657592
Parp10 671535	-1.258939927	0.025408521	-1.364239825	0.003508805
Rassf2 215653	-1.25902942	0.204771438	-1.776450628	0.006040696
Gpatch8 237943	-1.25903031	0.199057989	-1.048977576	0.41682773
Gas8 104346	-1.259084141	0.038708375	-1.090776568	0.115453251
Bcor11 320376	-1.2591007	0.177513022	-1.101101699	0.256921602
Zbtb8os 67106	-1.259119431	0.161546766	1.047376123	0.347311155
Pcbd2 72562	-1.259241431	0.01631412	-1.135624221	0.054393601
Tmem85 68032	-1.259452914	0.0467557	-1.208990103	0.087307358
Mgrn1 17237	-1.259639036	0.063480683	-1.331736673	0.029080344
Pdzrn3 55983	-1.259673786	0.164000374	-1.35649129	0.033116462
Ndst1 15531	-1.259709725	0.308872894	1.172380143	0.333020814
Zfp410 52708	-1.259794984	0.208510216	-1.590530546	0.04679554
Cry2 12953	-1.259815738	0.030733001	-1.180608274	0.059115827
Aes 14797	-1.25990568	0.204361308	-1.282908442	0.121918766
Fli1 14247	-1.260174524	0.235302242	-1.053251937	0.422384832

Wdr75 73674	-1.26019271	0.144447866	-1.101991184	0.288850309
Tsen15 66637	-1.260315253	0.205920418	-1.112299416	0.355450575
Tmem205 235043	-1.260351608	0.166870526	-1.232261829	0.144310576
D8Erttd82e 244418	-1.260579602	0.197419625	-1.466308125	0.096191656
Stk3 56274	-1.260673144	0.273975489	-1.260673144	0.273975489
Sfxn2 94279	-1.260747627	0.01453225	-1.118415302	0.013250086
Fhad1 329977	-1.260773907	0.194541599	-1.260773907	0.194541599
Sowahb 78088	-1.260905231	0.22557763	-1.260905231	0.22557763
Syt11 229521	-1.261119164	0.160301151	-1.087808137	0.321889754
Spsb2 14794	-1.261183386	0.07156581	-1.19249269	0.047045234
Mgp 17313	-1.261242829	0.336413522	-1.63487368	0.222811858
Cbl1 104836	-1.26131186	0.130369359	-1.25689236	0.090981337
Tigd5 105734	-1.261330687	0.187988638	-1.245587903	0.156379961
Acvr2b 11481	-1.26141913	0.181236183	-1.274752096	0.098404299
Tmem186 66690	-1.26146894	0.118100662	-1.26146894	0.118100662
Zfp128 243833	-1.26173228	0.337328191	1.639240756	0.052190564
Mtss1 211401	-1.261851269	0.202312096	-1.516998408	0.076732253
Lad1 16763	-1.261870987	0.150956095	-1.261870987	0.150956095
Man2c1 73744	-1.261933294	0.012383233	-1.235981993	0.007148972
Mettl22 239706	-1.262175383	0.192316518	-1.440770849	0.056037316
Pcca 110821	-1.26219614	0.106358417	-1.380866076	0.054679489
Aak1 269774	-1.262317885	0.143070273	-1.101486495	0.299365061
Stk11 20869	-1.262588222	0.005715	-1.260175061	0.010050031
Rcbtb2 105670	-1.262609525	0.065097511	-1.432306019	0.005091474
Tsyp1 22110	-1.26263361	0.191119715	-1.190846561	0.228869034
Mon1b 270096	-1.262724137	0.108722362	-1.123338063	0.227445946
5430416N02Rik 100041797	-1.262841373	0.196306559	-1.057457425	0.405319708
Zmym6 100177	-1.262888146	0.337803226	-1.262888146	0.337803226
Nub1 53312	-1.262962789	0.000511103	-1.255620164	0.000307594
Dnmt1 13433	-1.263077806	0.271917389	-1.00738949	0.487941222
Cul7 66515	-1.263108189	0.106517446	-1.601084085	0.000563997
Eid2 386655	-1.263167257	0.370650152	-2.057583119	0.184774269
Trf 22041	-1.263193153	0.080559199	-1.246135635	0.046843821
Pcyt1a 13026	-1.263197654	0.204380426	1.082875248	0.335309074
A630007B06Rik 213993	-1.263345047	0.382407463	1.397748466	0.352468975
Zc3h14 75553	-1.263362344	0.12442	-1.359947108	0.085229864
Zfp119b 240120	-1.263416139	0.324820318	-2.761147608	0.004142902
Tufm 233870	-1.263470422	0.017535017	-1.206512329	0.037631102
Csf3r 12986	-1.263500159	0.254828044	-1.687196477	0.072869477
Ddx58 230073	-1.263514558	0.129163251	-1.540238524	0.005743622
Itga4 16401	-1.263543392	0.111035476	-1.098737512	0.233299561
Adamts4 240913	-1.26356978	0.406838122	-7.725	0.072984714
Slc25a17 20524	-1.263625768	0.055712999	-1.147129635	0.111022612
2810453I06Rik 67238	-1.263727985	0.079626278	-1.372036376	0.017350359
Prdm15 114604	-1.263917862	0.347457245	-1.034412002	0.470320406
Adar 56417	-1.263945465	0.017017165	-1.12594805	0.028943096
5730409E04Rik 230757	-1.264059633	0.131975075	-1.264059633	0.131975075
Capns1 12336	-1.264092826	0.123487599	-1.253770632	0.072346203
Hsd3b7 101502	-1.264390058	0.012819204	-1.260256591	0.000470792
BC049762 193286	-1.264547479	0.321753856	-1.264547479	0.321753856
Crtam 54698	-1.264669856	0.402322572	-6.194816667	0.093788939
Fjx1 14221	-1.264669856	0.402322572	-6.194816667	0.093788939
Zfp574 232976	-1.264860325	0.089766837	-1.434094415	0.017957084

Ero1l 50527	-1.264882418	0.125144385	-1.12306123	0.257549797
Ssfa2 70599	-1.264888337	0.280353874	-1.193990527	0.298159671
Agpat1 55979	-1.265029344	0.044749698	-1.377373894	0.011670501
Hmga1 15361	-1.265347607	0.036365888	-1.162584011	0.055746378
Al467606 101602	-1.265363106	0.365222852	-2.178604522	0.172235104
Slc22a15 242126	-1.265456962	0.060078091	-1.355939252	0.004638087
Heatr7b1 100040766	-1.265561645	0.240978047	-1.511007903	0.059506486
Abcb10 56199	-1.265674486	0.133655594	-1.265674486	0.133655594
Ash1l 192195	-1.265950381	0.23182888	-1.211595158	0.251202491
Tom1l1 71943	-1.265968993	0.172263952	-1.265968993	0.172263952
Nacc1 66830	-1.266017268	0.007168449	-1.266017268	0.007168449
Rps6ka2 20112	-1.266066379	0.064297133	-1.379026003	0.024345651
Ccl9 20308	-1.26607538	0.044750106	-1.268953696	0.026734919
Bmp4 12159	-1.266153874	0.144786643	-1.102271017	0.302464334
Pik3r5 320207	-1.266204441	0.13531734	-1.121310451	0.274683274
Apobec3 80287	-1.266246532	0.189113809	-1.641866645	0.0158237
Lrrc51 69358	-1.266489367	0.224522201	-1.125007683	0.347323496
Zdhhc13 243983	-1.266497454	0.295054002	-1.266497454	0.295054002
Golm1 105348	-1.266508372	0.190560573	-1.266508372	0.190560573
1810024B03Rik 329509	-1.266582675	0.200684109	-1.238644805	0.014842791
Nelf 56876	-1.266841209	0.004299652	-1.20785532	0.004546937
Nav1 215690	-1.266873234	0.101260835	-1.110881185	0.208941878
Cyp3a25 56388	-1.266995919	0.129099714	-1.243076848	0.069697701
Mup21 381531	-1.267044316	0.111063423	-1.267044316	0.111063423
D330012F22Rik 269952	-1.267053093	0.120839339	-1.021934924	0.434970962
Banp 53325	-1.267055984	0.050544918	-1.158068483	0.101748423
Mgat3 17309	-1.26713579	0.396662316	1.282144901	0.403677687
Aars2 224805	-1.26719805	0.055898663	-1.149512745	0.111697311
Ston2 108800	-1.267265786	0.214126915	-1.267265786	0.214126915
Papss1 23971	-1.267276853	0.234899431	-1.267276853	0.234899431
Trfr2 50765	-1.267301903	0.000707998	-1.357899714	5.71681E-06
Selp 20344	-1.267372387	0.298989432	-1.060145974	0.444180875
Plxb2 140570	-1.267382676	0.000456444	-1.304481823	7.38477E-05
Dhrs1 52585	-1.267419945	0.00670953	-1.200691542	0.006744758
Rdh9 103142	-1.267460498	0.079928752	-1.267460498	0.079928752
Nf2 18016	-1.267464235	0.126931959	-1.110277757	0.268272212
Mamdc2 71738	-1.267727407	0.232076047	-1.43136457	0.120870554
Wdr70 545085	-1.267736858	0.10651962	-1.358423186	0.019911964
Bid 12122	-1.26776951	0.092766011	-1.21784509	0.07189963
Nmnat3 74080	-1.268072875	0.072844277	-1.059206624	0.283759078
Khdrbs1 20218	-1.268107769	0.092167782	-1.371029394	0.025610684
Lyn 17096	-1.268145678	0.079022965	-1.555726589	0.000252829
Mtif3 76366	-1.268228102	0.059735768	-1.268228102	0.059735768
Mtrf1l 108853	-1.268294067	0.140493181	-1.427997309	0.065658104
Fig4 103199	-1.268330838	0.093115238	-1.406335788	0.009635118
Kank1 107351	-1.268394606	0.212842309	-1.056459382	0.419442895
Tubgcp3 259279	-1.268420234	0.166520774	-1.397024454	0.10995791
Shroom1 71774	-1.268467087	0.01095724	-1.213265729	0.023793039
Pcnt 18541	-1.268528281	0.116623426	-1.196254985	0.197696415
Znfx1 98999	-1.26867391	0.077925811	-1.135353562	0.154294628
Btbd9 224671	-1.268882282	0.027820174	-1.449844608	0.000563021
Irf6 54139	-1.269024375	0.085170631	-1.130498148	0.171984335
Hif3a 53417	-1.269071298	0.346091174	1.74399645	0.057734153

Apoa2 11807	-1.269207608	0.190976195	-1.185611607	0.230979505
Spc24 67629	-1.269235153	0.034610507	-1.407738921	0.002244271
Tjap1 74094	-1.269243254	0.060379555	-1.399451268	0.015663031
Batf 53314	-1.269317497	0.306748093	-1.836985521	0.119060806
Lipc 15450	-1.269433574	0.044472218	-1.269433574	0.044472218
Tesk1 21754	-1.269434327	0.017791089	-1.269434327	0.017791089
Bag1 12017	-1.269575516	0.053950256	-1.221478756	0.095844204
Tspan15 70423	-1.269685884	0.192724811	-1.766959714	0.005370535
Tbkbp1 73174	-1.269695146	0.05489682	-1.396811026	0.01357301
Sema4a 20351	-1.269813384	0.000211403	-1.228576818	0.000235273
Slc39a3 106947	-1.269897889	0.013876273	-1.245608671	0.003540098
Zfp260 26466	-1.270126031	0.106707807	-1.144355732	0.21733556
Pcf11 74737	-1.270189729	0.148634083	-1.473730008	0.051269534
Zdhhc9 208884	-1.27026834	0.000625039	-1.245375261	0.001703771
Tgfbrap1 73122	-1.270470932	0.033969355	-1.109114402	0.11860454
Lipg 16891	-1.270682197	0.181598878	-1.080099979	0.3694313
Sf3a2 20222	-1.270736619	0.054866046	-1.163367115	0.107405114
Fcgr3 14131	-1.270768878	0.08483026	-1.398735477	0.011080928
Mtss1l 244654	-1.270966168	0.067491447	-1.270966168	0.067491447
Rnf26 213211	-1.271074237	0.034046041	-1.118042856	0.125650899
Xpa 22590	-1.271150096	0.136135177	-1.271150096	0.136135177
Fech 14151	-1.271386707	0.066180651	-1.271386707	0.066180651
Dcaf15 212123	-1.271604254	0.173327013	-1.431820223	0.057259156
Egln3 112407	-1.271831258	0.1961888	-1.314334407	0.142757405
Slc25a13 50799	-1.271897606	0.082654708	-1.27685545	0.05817163
Pofut1 140484	-1.271948017	0.028600987	-1.216793354	0.012217562
Zfp948 381066	-1.271973423	0.37816165	-3.956991387	0.065139467
Phf7 71838	-1.272034312	0.173006657	-1.435878891	0.098169507
Tyw1 100929	-1.272145292	0.138436683	-1.459278381	0.050965837
Dus2l 66369	-1.27217242	0.18652277	-1.440978052	0.110147176
St7l 229681	-1.272219789	0.189249306	-1.092663995	0.364552186
Dand5 23863	-1.272230453	0.116472456	-1.272230453	0.116472456
Smarca2 67155	-1.27223733	0.126438617	-1.239193742	0.121986949
Igsf21 230868	-1.272277489	0.312964352	-1.081156729	0.431489825
Il17rc 171095	-1.272321997	0.152280856	-1.524413926	0.033230578
Srr 27364	-1.272461958	0.05221149	-1.107316885	0.190395374
2810422J05Rik 75620	-1.272479822	0.009352818	-1.357697414	0.001369676
Ankrd42 73845	-1.27248592	0.395615311	1.11373758	0.461395715
Tnrc6c 217351	-1.272491364	0.076577136	-1.196538715	0.082999412
Srrm2 75956	-1.272523166	0.010692424	-1.226704982	0.023781344
Ciz1 68379	-1.272599892	0.016299728	-1.272599892	0.016299728
1110020G09Rik 68646	-1.272681393	0.151509636	-1.272681393	0.151509636
Bahd1 228536	-1.272756345	0.150532915	-1.451453097	0.067221701
Ppp2r5e 26932	-1.272900356	0.016469574	-1.272900356	0.016469574
Kcnt2 240776	-1.273031136	0.384865273	-3.967316667	0.09324139
Susd3 66329	-1.273031136	0.384865273	-3.967316667	0.09324139
Lyve1 114332	-1.273084483	0.189577952	-1.182979163	0.199842033
Vars2 68915	-1.273183469	0.059280568	-1.148005107	0.106024275
Arhgef12 69632	-1.273339855	0.060537689	-1.225164769	0.05635818
Trim11 94091	-1.273391648	0.142872851	-1.064591818	0.323260962
Fgl1 234199	-1.2734215	0.130604778	-1.27842047	0.090606876
BC005561 100042165	-1.27357244	0.262841598	-1.596188536	0.133527739
Slc39a8 67547	-1.273642165	0.074276886	-1.155593224	0.151673394

Snx19 102607	-1.273735625	0.038342638	-1.202364981	0.079076573
Gtpbp5 52856	-1.273736145	0.033792365	-1.199170543	0.069238815
Nars2 244141	-1.273770745	0.19387608	-1.273770745	0.19387608
Gas6 14456	-1.273907931	0.075877769	-1.571287524	0.000334594
Spag4 245865	-1.273946958	0.293382401	-1.846496639	0.097111319
Alcam 11658	-1.273947392	0.025486947	-1.283763958	0.011943745
Ap1m1 11767	-1.274000164	0.008123961	-1.336998111	0.003246033
Tk1 21877	-1.274123404	0.242692556	-1.708176939	0.061268476
Speg 11790	-1.274202412	0.259097172	1.040628045	0.448194069
Clk4 12750	-1.274248353	0.213530751	-1.06322863	0.413893619
2610507B11Rik 72503	-1.274338384	0.005916726	-1.206352777	0.005249945
Lhx2 16870	-1.274417962	0.206084033	-1.112845041	0.346112796
Stag1 20842	-1.274491736	0.170629249	-1.378277252	0.061917776
Bcl9l 80288	-1.274495096	0.059672854	-1.155743041	0.06435119
Sipa11l 217692	-1.274507154	0.039567653	-1.195368536	0.081257015
Kif7 16576	-1.274535621	0.240605824	-1.390844258	0.173813491
Agfg2 231801	-1.274840814	0.016725086	-1.221377303	0.036047201
Rgmb 68799	-1.274916091	0.3020346	-1.274916091	0.3020346
VeZF1 22344	-1.275049786	0.218161773	-1.275049786	0.218161773
Nup214 227720	-1.275110809	0.026226735	-1.275110809	0.026226735
Cask 12361	-1.275291912	0.145186832	-1.158820724	0.26260667
Utp6 216987	-1.275299772	0.023035478	-1.205471499	0.048516877
Cwf19l1 72502	-1.275458962	0.055918655	-1.177402947	0.11370702
Zfp746 69228	-1.275565883	0.140305378	-1.346297784	0.064152567
Axl 26362	-1.275585318	0.169775402	-1.275585318	0.169775402
Cic 71722	-1.275589495	0.153996651	-1.379982285	0.113626511
Scly 50880	-1.275715911	0.008378515	-1.32158569	0.006054415
Lrrc24 378937	-1.275742138	0.397652912	-1.305244483	0.378399987
Hsd3b3 15494	-1.27579571	0.053424961	-1.449551685	0.002857332
Cacng7 81904	-1.27588365	0.354772041	-1.27588365	0.354772041
Pmaip1 58801	-1.275899985	0.256772726	-1.512880075	0.097462385
Col15a1 12819	-1.275932048	0.26903713	-1.728853382	0.095728567
Insr 16337	-1.275961965	0.158773686	-1.142559431	0.228640815
Slc7a7 20540	-1.275981712	0.164442671	-1.524408809	0.048174033
Zscan2 22691	-1.275989197	0.206588438	-1.800605173	0.002591507
Rsad1 237926	-1.276047407	0.138837553	-1.287001376	0.047086798
Rfc3 69263	-1.276062612	0.181338712	-1.095050759	0.356136391
Mocs1 56738	-1.27608826	0.051646882	-1.27608826	0.051646882
Exoc6 107371	-1.276144956	0.213027859	-1.035452931	0.446056856
Crtc3 70461	-1.276340413	0.118830869	-1.134022238	0.24416124
Zfp516 329003	-1.27647531	0.149427864	-1.283901804	0.092833023
Gm10768 100038628	-1.276679459	0.017213267	-1.340232203	0.004681094
Rfx7 319758	-1.276681527	0.238199451	-1.276681527	0.238199451
4930524L23Rik 78185	-1.277012407	0.320424379	-1.277012407	0.320424379
Ddx41 72935	-1.277094968	0.118829749	-1.277094968	0.118829749
E130309F12Rik 272031	-1.277325724	0.346405787	-2.22811962	0.130894336
Cml2 93673	-1.277732232	0.004287246	-1.326658128	0.001092808
Tpm3 59069	-1.277743865	0.030578996	-1.204858694	0.062721036
Fbxw7 50754	-1.277779887	0.104196804	-1.028022855	0.411357076
Coro1b 23789	-1.277915876	0.059784601	-1.377950919	0.02916021
Adamts4 229595	-1.277985542	0.119037147	-1.133316098	0.245261746
Nsun6 74455	-1.278666606	0.251031952	-1.073190919	0.413701181
Ccdc51 66658	-1.278749546	0.145993902	-1.408678162	0.059281656

Fkrp 243853	-1.278887136	0.114646871	-1.622431703	0.003946985
5730455013Rik 70567	-1.278909344	0.156428018	-1.278909344	0.156428018
Prkar2a 19087	-1.27922528	0.244139754	1.017529169	0.475870442
Pnkd 56695	-1.279329365	0.004052956	-1.279329365	0.004052956
Wdr76 241627	-1.279388292	0.248053715	-1.202410955	0.287681895
Agtrap 11610	-1.279520775	0.101115432	-1.225112982	0.164662367
Sos1 20662	-1.279715592	0.214916625	-1.253693818	0.186897519
Ppp1r12a 17931	-1.279818502	0.309385239	1.433096181	0.132045177
Cxxc5 67393	-1.280098948	0.001027937	-1.19553247	0.00109971
Helq 191578	-1.280120078	0.240426492	-1.280120078	0.240426492
Celf1 13046	-1.280138745	0.229051329	-1.280138745	0.229051329
Ippk 75678	-1.280141468	0.116891678	-1.609355825	0.006202164
A230072C01Rik 320742	-1.280144167	0.260135228	-1.603890736	0.085475572
Hlf 217082	-1.28028117	0.08635491	-1.139760941	0.176636187
Ube3b 117146	-1.280388498	0.004081003	-1.352424383	0.000708622
Mapt 17762	-1.280474074	0.250115957	-1.178255363	0.249228049
Cdh4 12561	-1.28051818	0.335212368	-1.28051818	0.335212368
Mex3b 108797	-1.280963333	0.386755678	-6.404816667	0.044430303
Bbx 70508	-1.281017004	0.296158387	1.23144556	0.203431354
Flna 192176	-1.281189655	0.206663341	-1.403812535	0.032936759
Rnf44 105239	-1.281259865	0.247293576	-1.195279855	0.295605654
Zfp386 56220	-1.281371137	0.178794588	-1.160518131	0.29891688
Rev3l 19714	-1.281376415	0.230419495	-1.599845373	0.096057342
Cyp20a1 77951	-1.281433236	0.257828253	-1.467944489	0.143295151
Fuca2 66848	-1.281437083	0.218959223	1.082872039	0.372836543
Ndor1 78797	-1.281532627	0.025493324	-1.451810117	0.000364237
Gatc 384281	-1.281551645	0.014058695	-1.375142317	0.002566809
Dyrk3 226419	-1.281735163	0.220921576	-1.129074958	0.237170275
Zfp467 68910	-1.281742981	0.016602642	-1.437238186	0.000828059
Sh2d3c 27387	-1.281763069	0.037954477	-1.382160796	0.002635358
Kcnj10 16513	-1.281979689	0.343708965	-1.410184994	0.208275831
Nisch 64652	-1.282072764	0.009196361	-1.331193008	0.006423891
Col13a1 12817	-1.282122381	0.052974243	-1.206315816	0.106894029
Fam118a 73225	-1.282222278	0.292225796	-1.282222278	0.292225796
Cux2 13048	-1.282309673	0.068694721	-1.106997038	0.224688501
Myo5b 17919	-1.282370464	0.07689518	-1.262610675	0.023420248
Pdf 68023	-1.282514436	0.043409824	-1.161749964	0.081784054
Fam107b 66540	-1.282725487	0.141311552	-1.126636504	0.284679157
Chst7 60322	-1.282742683	0.347515529	-1.282742683	0.347515529
Enpp5 83965	-1.282775524	0.075373776	-1.282775524	0.075373776
Syap1 67043	-1.282984059	0.199166035	-1.609514546	0.055335681
Dcaf7 71833	-1.283069955	0.246395911	1.014174242	0.481448745
Slc6a12 14411	-1.283081653	0.005552656	-1.320236572	0.005003686
Zfp446 269870	-1.283126076	0.17888657	-1.138323722	0.318042065
Irf1 16362	-1.283250687	0.076540392	-1.267104028	0.034463641
H2-DMa 14998	-1.283268066	0.216732566	-1.588497315	0.025400018
Slc12a5 57138	-1.283272763	0.124209846	-1.009255364	0.464224008
Parp1 11545	-1.28332907	0.068746412	-1.28332907	0.068746412
Vsig4 278180	-1.283392935	0.148425948	-1.283392935	0.148425948
Rsph4a 212892	-1.283396357	0.268804416	1.061367014	0.429000526
Ces2e 234673	-1.283543666	0.009116732	-1.341482128	0.002262869
Ppp1r12b 329251	-1.283606591	0.390191718	1.170129778	0.437059136
Nr4a1 15370	-1.283617073	0.30558231	-1.134913908	0.377417309

D730040F13Rik 242474	-1.28362798	0.20349999	-1.107330194	0.366651204
Col11a2 12815	-1.28388744	0.359034401	1.239630944	0.388132903
Ifi44 99899	-1.283904082	0.111584321	-1.283904082	0.111584321
Unc13d 70450	-1.284033779	0.273213046	-1.309086592	0.21920762
Jmjd8 72106	-1.284040832	0.055074582	-1.305941625	0.004514336
Pars2 230577	-1.28408739	0.221983631	-1.28408739	0.221983631
40974 223455	-1.284126316	0.172223917	1.030494105	0.43610832
Fam65c 69553	-1.28421403	0.233827996	-1.065504205	0.425475803
Ntan1 18203	-1.284278771	0.044348726	-1.257953341	0.035914771
Necap2 66147	-1.284479161	0.069332926	-1.548564196	0.001051574
Fbxw5 30839	-1.284729112	0.041490134	-1.232416689	0.078063233
lqsec2 245666	-1.28475209	0.024723176	-1.200104401	0.050573954
Thoc7 66231	-1.284939001	0.113548466	-1.532661752	0.01282073
Bcap29 12033	-1.284965763	0.273291527	1.001790113	0.498235268
Slc39a4 72027	-1.28496956	0.010377196	-1.314224528	0.001290018
Pard3b 72823	-1.285207962	0.307483473	-1.663529187	0.189019128
Bcor 71458	-1.285307278	0.063839792	-1.274658006	0.015978646
Hectd3 76608	-1.285397555	0.0031522	-1.34379422	0.000683071
Rab14 68365	-1.285415604	0.11954773	-1.121089419	0.252874512
Rrbp1 81910	-1.285536434	0.105402741	-1.432615258	0.046755671
H2afy 26914	-1.285537	0.013288875	-1.285537	0.013288875
Fkbp14 231997	-1.285598574	0.185922295	-1.545313858	0.071069139
Slc39a6 106957	-1.285622667	0.31243265	-1.951485754	0.120564913
Rnf10 50849	-1.285667525	0.022356247	-1.285667525	0.022356247
Shisa2 219134	-1.285679259	0.36403843	-3.06356435	0.047515593
2810008D09Rik 76972	-1.285707657	0.196902346	-1.073507093	0.379802768
Rreb1 68750	-1.285711302	0.206670372	-1.285711302	0.206670372
Ugt1a10 394430	-1.285862891	0.388691436	-7.669380845	0.043082451
Hmgn5 50887	-1.286003492	0.035928837	-1.195025289	0.070274562
Ggcx 56316	-1.2860236	0.03813641	-1.194701268	0.075514718
Acyp1 66204	-1.286396068	0.161112235	-1.546796782	0.045563462
Gpam 14732	-1.286474592	0.302734788	1.158996727	0.357902916
Otub2 68149	-1.286500887	0.232833261	-1.607877572	0.101552798
Sgpl1 20397	-1.286542736	0.159089512	-1.286542736	0.159089512
Irgm1 15944	-1.286712022	0.070971532	-1.286712022	0.070971532
Nfs1 18041	-1.286763413	0.068233746	-1.286763413	0.068233746
Notch2 18129	-1.28683722	0.20246921	-1.020091283	0.460064144
Stk19 54402	-1.286851876	0.124636568	-1.286851876	0.124636568
Btnl9 237754	-1.286872687	0.30939876	-1.011219449	0.490588665
Mapk8ip3 30957	-1.286922646	0.064522551	-1.286922646	0.064522551
ldh3b 170718	-1.286933598	0.000532352	-1.286933598	0.000532352
5730437N04Rik 70544	-1.286972686	0.021179212	-1.194151508	0.029528081
Kdm6a 22289	-1.287051612	0.314889315	-1.246197282	0.349321169
Dcaf11 28199	-1.287081336	0.000153261	-1.32157623	2.64455E-05
Son 20658	-1.287101817	0.143398851	-1.159493813	0.209863012
Lrrc29 234684	-1.287105469	0.102933537	-1.162413256	0.207216276
Nudt14 66174	-1.287143919	0.103248445	-1.506001351	0.016334326
Vti1a 53611	-1.287188028	0.014002392	-1.379431546	0.00300289
Wipf3 330319	-1.287198392	0.044916803	-1.198992268	0.091769543
Dnajc5 13002	-1.287245936	0.19782931	-1.065243305	0.403886945
Gpsm3 106512	-1.287273293	0.164179671	-1.684386089	0.005878046
Itgb7 16421	-1.28731284	0.216213461	-1.526164123	0.116839611
Ankrd17 81702	-1.287384487	0.234741053	1.020520888	0.468955449

Sardh 192166	-1.287743881	0.005691633	-1.427972068	5.61912E-05
Nrn1 68404	-1.28776054	0.041539801	-1.358251511	0.028035751
Adam10 11487	-1.287941131	0.116664944	-1.152636708	0.234036674
Slc16a3 80879	-1.287969754	0.352269115	-1.810348122	0.188260339
Pctp 18559	-1.288042041	0.057960005	-1.474353749	0.003830142
Cd55 13136	-1.288061321	0.166237702	-1.047277837	0.389877147
Smtn 29856	-1.288073691	0.060232527	-1.158518176	0.111650708
Cetn3 12626	-1.288213854	0.023895888	-1.288213854	0.023895888
Aurkb 20877	-1.288222857	0.403696353	1	#DIV/0!
Tnfrsf25 85030	-1.288222857	0.403696353	1	#DIV/0!
Chd5 269610	-1.288222857	0.403696353	1	#DIV/0!
Cap2 67252	-1.288222857	0.403696353	1	#DIV/0!
Cdh26 381409	-1.288222857	0.403696353	1	#DIV/0!
Reln 19699	-1.288228466	0.141751522	-1.013995849	0.469370247
Ube2w 66799	-1.288341363	0.137105271	-1.23709624	0.091098351
Mmaa 109136	-1.288434871	0.039706102	-1.183149736	0.072166016
Gm5523 433273	-1.288511061	0.148617354	-1.73156143	0.002423733
Hmgcs2 15360	-1.288702694	0.028605441	-1.288702694	0.028605441
Thyn1 77862	-1.288751951	0.13307746	-1.288751951	0.13307746
Npr3 18162	-1.288777957	0.277824604	-1.041793967	0.463760206
2010011 20Rik 67017	-1.288914526	0.005841035	-1.176521365	0.016338477
Apitd1 69928	-1.288920026	0.379257424	-4.016833333	0.093227909
Gm711 279029	-1.288920026	0.379257424	-4.016833333	0.093227909
Slc25a16 73132	-1.288938048	0.306206334	-1.131906807	0.380228195
Cnp 12799	-1.288964164	0.074228899	-1.570708846	0.001406237
Fam47e 384198	-1.289084212	0.192407683	-1.675112871	0.030341063
Vwa1 246228	-1.289127729	0.261547553	-2.057651375	0.017585678
Prdm9 213389	-1.289143113	0.180124791	-1.11378613	0.342331868
BC018507 218333	-1.289227127	0.252880126	-1.007136113	0.483152771
Klhl3 627648	-1.289337918	0.307204467	-2.423001018	0.031124376
Usp18 24110	-1.289433644	0.167124304	-1.436276155	0.070559816
Shmt2 108037	-1.289715868	0.000976927	-1.340364557	6.00929E-05
Cbr4 234309	-1.289748476	0.027968432	-1.289748476	0.027968432
Agl 77559	-1.289771206	0.096414167	-1.400921751	0.057819941
Kank3 80880	-1.289833095	0.099566033	-1.030913514	0.391290756
N4bp2 2 381695	-1.289877868	0.123784622	-1.030918483	0.428170102
Mapkbp1 26390	-1.289899745	0.1790068	-1.448323596	0.114848213
Aldh3a2 11671	-1.290013212	0.101703662	-1.148498772	0.21050933
Mug-ps1 17835	-1.290061819	0.152244448	-1.290061819	0.152244448
Aasdh 231326	-1.29013306	0.171878357	-1.29013306	0.171878357
Slc16a11 216867	-1.290168587	0.056130361	-1.24230949	0.096946554
Suox 211389	-1.290237418	0.017216742	-1.231740341	0.006524208
0610009020Rik 66839	-1.290292437	0.0053904	-1.353713337	0.000549224
Parp3 235587	-1.290430344	0.065096107	-1.163679848	0.13298124
Magi1 14924	-1.290662628	0.107325223	-1.412801481	0.06245985
Lrrc45 217366	-1.290882084	0.196251845	-1.290882084	0.196251845
Nucb2 53322	-1.290986773	0.234365841	-1.155510718	0.324649379
Rcor3 214742	-1.291174086	0.314664867	1.098435614	0.42957084
Oaf 102644	-1.291331472	0.046972402	-1.405024793	0.004163112
Ranbp3 71810	-1.291331695	0.002762792	-1.407682089	8.88661E-05
Tmem170b 621976	-1.291461638	0.254501954	-1.328361266	0.144238545
St3gal2 20444	-1.291545076	0.16495238	1.020271606	0.458277338
Slc30a5 69048	-1.291569275	0.150536077	-1.505633719	0.058598461

Rufy3 52822	-1.291639035	0.026972811	-1.183244454	0.031350354
Tead3 21678	-1.291694443	0.096251562	-1.333693242	0.029295327
Armcx1 78248	-1.291737736	0.340731572	-1.812670781	0.149215492
Prosapip1 241638	-1.292014251	0.053350593	-1.392328863	0.026658384
Gas2l1 78926	-1.292108382	0.0119477	-1.163856988	0.038442017
Ap4e1 108011	-1.292224937	0.038859758	-1.292224937	0.038859758
H6pd 100198	-1.292236711	0.006716544	-1.343100444	0.002352757
Erccl1 13870	-1.292567718	0.111635514	-1.130658627	0.234990332
Slc16a2 20502	-1.292792702	0.117390453	-1.468438669	0.046312326
Sh3bp2 24055	-1.292919187	0.089285902	-1.129916349	0.184294288
Fads1 76267	-1.293600657	0.029478785	-1.142211276	0.105975515
Narfl 67563	-1.293889331	0.014773344	-1.293889331	0.014773344
Fam114a1 68303	-1.294209876	0.071795963	-1.060205296	0.281459762
Camkk2 207565	-1.294569641	0.104562469	-1.137417279	0.218953116
lqgap2 544963	-1.294586176	0.126009944	-1.481496151	0.049488316
Cenpv 73139	-1.294890418	0.077579352	-1.294890418	0.077579352
Pnlcd1 240023	-1.295039914	0.281292145	1.014081713	0.48730269
Akap7 432442	-1.295056637	0.24562846	-1.429171332	0.173111149
Mast2 17776	-1.295061853	0.011740925	-1.218369975	0.01741078
Spag9 70834	-1.295123107	0.183067842	-1.295123107	0.183067842
2810417H13Rik 68026	-1.295144696	0.371596936	1.525170402	0.307810225
Hgfac 54426	-1.295307235	0.017784585	-1.392572256	0.000446046
Gorasp1 74498	-1.295408352	0.044319335	-1.15812147	0.076277403
Tmem43 74122	-1.295433231	0.062362465	-1.066755292	0.229771882
Zc3h4 330474	-1.295453043	0.197929685	-1.140279174	0.262332334
Tnxb 81877	-1.295543178	0.20738664	-1.060850559	0.417304067
Tmpo 21917	-1.295836984	0.160764412	-1.341957674	0.105211694
Zfp236 329002	-1.2959394	0.167115909	1.034447784	0.42498728
Golgb1 224139	-1.296008369	0.104133769	-1.149266599	0.215776323
Pawr 114774	-1.296042003	0.299546684	1.04739355	0.462720466
Sp6 83395	-1.29609618	0.387020615	-2.8	0.173296754
Fam71f2 245884	-1.29609618	0.387020615	-2.8	0.173296754
Tulp4 68842	-1.296128992	0.013325465	-1.369000425	0.000405313
Tspan18 241556	-1.296344411	0.006500205	-1.376048806	0.001473394
Mtap4 17758	-1.296494147	0.073280561	-1.223607123	0.130525136
Cdc42bpb 217866	-1.296680766	0.024394972	-1.201372638	5.82413E-05
Vezt 215008	-1.296900902	0.101780064	-1.414363037	0.036011726
Pdp2 382051	-1.296961907	0.228640621	-1.562182922	0.125744522
Psd 73728	-1.29704201	0.318205793	-1.202794778	0.362818418
Fgd2 26382	-1.297048146	0.309831181	-2.93946282	0.002632129
Prkx 19108	-1.297294417	0.319195577	-1.810938157	0.179641039
Emr1 13733	-1.297451242	0.200958723	-1.759204033	0.021764279
Ntn3 18209	-1.297679048	0.160913998	-1.297679048	0.160913998
Rin3 217835	-1.297707895	0.014044854	-1.297707895	0.014044854
Tmem42 66079	-1.297771942	0.080165156	-1.175243509	0.164239834
Rgs12 71729	-1.297902841	0.133952726	-1.537397869	0.035508868
Atn1 13498	-1.297986095	0.010984181	-1.28306035	0.003561104
Ces3a 382053	-1.29808818	0.042863836	-1.29808818	0.042863836
Fermt3 108101	-1.298146918	0.089811989	-1.164785034	0.179691919
Slc22a4 30805	-1.29817336	0.203320087	-1.673731248	0.051789717
Amt 434437	-1.298195394	0.141957229	-1.151149805	0.273489459
Fastkd1 320720	-1.298228874	0.141709158	-1.123031915	0.292283559
Wdr37 207615	-1.298304168	0.168258965	-1.109264953	0.336835

Igsf5 72058	-1.298332503	0.043026579	-1.099122329	0.119211836
Ptpn6 15170	-1.298377839	0.012983323	-1.298377839	0.012983323
Gm14378 100044509	-1.298416031	0.095689896	-1.512036985	0.017040247
Fzd5 14367	-1.29843466	0.222476261	-1.070400909	0.417792176
Gas1 14451	-1.298757863	0.163156869	-1.298757863	0.163156869
A4galt 239559	-1.298834574	0.393066013	2.519565727	0.185597322
Hcfc1 15161	-1.298872458	0.171545677	-1.059531942	0.386644388
Leng8 232798	-1.298919942	0.049484918	-1.409214535	0.007032881
Crispld2 78892	-1.298937921	0.333030723	-1.782833453	0.139483127
Slc35a3 229782	-1.298948043	0.256112771	-1.120033773	0.265070731
Khdrbs3 13992	-1.299039874	0.053089126	-1.372455149	0.026662922
Morn4 226123	-1.299159564	0.368681317	1.282318471	0.390467519
Itch 16396	-1.29926892	0.128422314	-1.244549619	0.101902276
Nes 18008	-1.299425099	0.220384009	-1.934088868	0.010762149
Pxk 218699	-1.299427151	0.102278415	-1.284848015	0.03695481
Tmem136 235300	-1.299446989	0.302470924	-1.299446989	0.302470924
Mtcp1 17763	-1.299559803	0.197998638	-1.309978448	0.151545805
Hdhd3 72748	-1.299779204	0.051206493	-1.199774585	0.104138162
Nckipsd 80987	-1.299860538	0.041823039	-1.363703863	0.023124746
Tti1 75425	-1.300062788	0.036838226	-1.234868198	0.013548533
Coq3 230027	-1.300094888	0.078602501	-1.40235975	0.028916163
Tmem86b 68255	-1.300110554	0.004340278	-1.306703142	0.001235523
Pdha1 18597	-1.300342035	0.178613703	-1.181051282	0.277653933
Igsf6 80719	-1.300412527	0.132688391	-1.176540257	0.19500847
Gtf3c5 70239	-1.300449013	0.092392272	-1.44018084	0.016389193
Slc50a1 19729	-1.300534824	0.075569025	-1.418634017	0.017679521
Fam98a 72722	-1.300570923	0.102777434	-1.300570923	0.102777434
Naip6 17952	-1.300704063	0.286436963	-1.300704063	0.286436963
Sox6 20679	-1.300871664	0.233433739	-1.882976437	0.027477692
Tmem214 68796	-1.30094609	0.030177097	-1.30094609	0.030177097
Zyx 22793	-1.301068025	0.011760242	-1.278410065	0.003700632
Malat1 72289	-1.301126835	0.040634472	-1.270490757	0.022786373
Fbxo45 268882	-1.301752955	0.159625125	-1.431950576	0.081214992
Gm12070 654472	-1.30176062	0.052234263	-1.519241561	0.001958216
Pprc1 226169	-1.301840933	0.059921211	-1.301840933	0.059921211
Lpin3 64899	-1.301873424	0.193327782	-1.606133058	0.069932014
Rpusd2 271842	-1.302017322	0.122212234	-1.085879602	0.263378787
Arhgap22 239027	-1.3020638	0.305380249	-1.3020638	0.305380249
Glb1 12091	-1.302133132	0.037285992	-1.506873775	0.001330264
Trappc9 76510	-1.302157704	0.047648806	-1.302157704	0.047648806
St6galnac4 20448	-1.302218235	0.253563206	-1.899568551	0.051177499
Impad1 242291	-1.302244708	0.272316043	1.015622143	0.485109989
2410004B18Rik 66421	-1.30233908	0.203626031	-1.574280954	0.095435235
Ep300 328572	-1.302399299	0.260546239	-1.090894033	0.405006561
Golga4 54214	-1.302416244	0.050578228	-1.116173694	0.144363277
Asb13 142688	-1.30254436	0.081396321	-1.492726348	0.016766913
Abcc5 27416	-1.302578927	0.208502691	-1.644310281	0.073390816
Zfp407 240476	-1.302683215	0.162581105	-1.302683215	0.162581105
Usp54 78787	-1.302754174	0.273736059	-2.113363075	0.033792786
Cgn1 68178	-1.302801285	0.184844262	1.003120723	0.489257758
Ubt1 226122	-1.302845623	0.103672966	-1.64967142	0.003372997
Copg2 54160	-1.302861356	0.114867594	-1.536178691	0.024902414
Mapkap1 227743	-1.303081385	0.015860723	-1.410506579	0.00276574

Rara 19401	-1.303300915	0.155709118	-1.279850464	0.132731808
Tsc2 22084	-1.303307636	0.021826227	-1.303307636	0.021826227
Hipk3 15259	-1.30334123	0.195427099	-1.115637093	0.300701507
Sh2b2 23921	-1.30336992	0.226597998	-1.30336992	0.226597998
Igfbp5 16011	-1.303487002	0.201930174	-1.140039419	0.344985192
1600014C10Rik 72244	-1.303530558	0.000322513	-1.225063919	0.000455732
BC021891 234878	-1.303844422	0.115713358	-1.505200267	0.037961535
1810037117Rik 67704	-1.303991091	0.035471718	-1.454902671	0.004041716
Slc38a7 234595	-1.30415098	0.010964538	-1.30415098	0.010964538
Sdc3 20970	-1.304481965	0.060572367	-1.070427949	0.218498375
Uck1 22245	-1.304582028	0.033244918	-1.188938179	0.063366944
Acad12 338350	-1.304664451	0.169775052	-1.402917865	0.118327852
1810012P15Rik 66274	-1.304681948	0.177311834	-1.292196353	0.126559069
Usp8 84092	-1.30484534	0.231132852	-1.383893861	0.100217448
Fndc3a 319448	-1.304964318	0.250853036	-1.19917475	0.305615277
Gimap9 317758	-1.305151633	0.147896925	-1.166744194	0.2722524
Prdx6 11758	-1.305186428	0.000045104	-1.27240578	3.57738E-05
Hn1 52009	-1.305248322	0.12379952	-1.214310951	0.148458354
Fam175b 109359	-1.305809929	0.082713796	-1.439493316	0.039470254
Exoc7 53413	-1.305916293	0.056649347	-1.093663777	0.18511658
Scx 20289	-1.306007307	0.337265607	-2.697116162	0.079573611
Cntd1 68107	-1.306315061	0.4068475	1	#DIV/0!
Skiv2l2 72198	-1.306397902	0.200436955	-1.100007872	0.377728372
Rfk 54391	-1.306501952	0.088848626	-1.444846858	0.012314149
Zfp62 22720	-1.306529507	0.24629791	-1.306529507	0.24629791
Kctd1 106931	-1.306592672	0.283862383	-1.306592672	0.283862383
Phf20 228829	-1.306687812	0.173019652	-1.306687812	0.173019652
Dennd2a 209773	-1.306783274	0.203549864	-1.196295187	0.30542669
Jakmip1 76071	-1.306857348	0.348445103	-2.334383838	0.154268948
Stambp 70527	-1.306857561	0.094998295	-1.147815588	0.197114879
Aldh3b1 67689	-1.306873054	0.257698173	1.013435437	0.485617696
Heg1 77446	-1.306981061	0.245790433	-1.040551032	0.445263447
Tab1 66513	-1.307066717	0.107768151	-1.187843573	0.208007413
Alg14 66789	-1.307334476	0.081000366	-1.631926658	0.001994607
Raph1 77300	-1.307347294	0.053400728	-1.193675294	0.106973003
BC065397 436230	-1.307395982	0.273399285	-1.546413196	0.14054864
Tubb6 67951	-1.307457031	0.089967359	-1.307457031	0.089967359
Slc9a1 20544	-1.307479567	0.014340637	-1.484833899	6.45233E-05
Gp1ba 14723	-1.307544191	0.212285004	-1.983971066	0.01169902
Sh2d2a 27371	-1.307616752	0.131637474	-1.42938014	0.090574014
2610528E23Rik 66497	-1.307732137	0.132207594	-1.012446008	0.471388975
Mup7 100041658	-1.307750569	0.307535811	-1.969919324	0.13183592
Armc9 78795	-1.307845463	0.096848692	-1.243978493	0.161982127
Rassf5 54354	-1.307853421	0.12473306	-1.55962021	0.027808456
1110034A24Rik 109065	-1.307900063	0.282621425	-2.272544879	0.026134045
Slc6a7 240332	-1.308151617	0.363999082	-2.114794391	0.165608225
4632428C04Rik 100043102	-1.308200826	0.299723657	-1.832456006	0.096192173
Onecut2 225631	-1.308353217	0.085832281	-1.224816204	0.018385788
Def6 23853	-1.308528456	0.220348217	-1.154907584	0.327170965
Matr3 17184	-1.308705164	0.10525333	-1.167522203	0.213884313
Gclm 14630	-1.30874859	0.03535939	-1.403244544	0.017419906
Dak 225913	-1.309048759	0.031965008	-1.226460092	0.008272014
Pola2 18969	-1.309049487	0.137438384	-1.309049487	0.137438384

Sars2 71984	-1.309058437	0.100152904	-1.249446306	0.102728317
1110031I02Rik 66179	-1.309183725	0.11657007	-1.446643369	0.068786843
Magohb 66441	-1.309490667	0.387136555	2.800934524	0.110689841
Exoc1 69940	-1.309525612	0.160825914	-1.460592319	0.106172991
Bmp6 12161	-1.309584334	0.254982113	-1.032284995	0.468415712
Otpn 71648	-1.309598986	0.056094966	-1.216566858	0.114071597
Pnpla6 50767	-1.309883272	0.012498917	-1.239139744	0.026665569
Rab3il1 74760	-1.309962517	0.129768605	-1.291322424	0.044178861
Lpgat1 226856	-1.310022799	0.021936307	-1.142591751	0.038531801
Pgm2l1 70974	-1.310254315	0.294528519	1.13347832	0.385399825
Lims1 110829	-1.310360088	0.194739622	-1.310360088	0.194739622
Gbp11 634650	-1.31059586	0.290701317	1.369223895	0.169323377
Acad9 229211	-1.310599489	0.057729361	-1.10916905	0.207761005
Hamp2 66438	-1.310671605	0.291165332	-2.915726784	0.000580835
Tcf7 21414	-1.31068716	0.086628336	-1.062574693	0.326074589
Spp1 20750	-1.310784583	0.043366103	-1.108360439	0.11508405
Tsc1 64930	-1.310945117	0.114655311	-1.636544154	0.0028514
G630016D24Rik 619301	-1.310977809	0.375459435	-6.42165	0.04426109
Fbxl5 242960	-1.311005654	0.12453411	-1.511156046	0.048713932
Crim1 50766	-1.311093043	0.162572861	-1.11181505	0.33191547
Ubp1 22221	-1.311112627	0.125374079	-1.246766668	0.121165368
Ptpre 19267	-1.311136112	0.286353663	-1.000852445	0.499310665
Topbp1 235559	-1.31117326	0.144196764	-1.128516511	0.295766973
Fubp1 51886	-1.311192493	0.209207283	-1.311192493	0.209207283
Agk 69923	-1.311261738	0.148596186	-1.659621294	0.017404803
Gpr18 110168	-1.311364959	0.382214599	-2.8202	0.173296754
Taf3 209361	-1.311424961	0.020299432	-1.310140077	0.001307936
Wdr19 213081	-1.311539514	0.317198745	-2.131170548	0.122194279
Rfx2 19725	-1.311576752	0.24933893	-2.088144357	0.015541816
Rap1gap 110351	-1.311629231	0.109586325	-1.321212634	0.082245881
Gna11 14672	-1.311991695	0.00188263	-1.258536915	0.000404442
Slk 20874	-1.312116034	0.100367623	-1.171128804	0.204826545
BC023829 236848	-1.31232758	0.038141792	-1.144131761	0.11777293
Aifm1 26926	-1.312438114	0.013326813	-1.245609411	0.026778961
Trim41 211007	-1.312441973	0.033222859	-1.28715113	0.013777641
Mll5 69188	-1.312477127	0.216818607	-1.185336836	0.273559797
Soat2 223920	-1.312540171	0.040740502	-1.427019763	0.015914306
Lphn2 99633	-1.312555292	0.138507939	1.007686313	0.472012011
Zmiz2 52915	-1.312565508	0.003132474	-1.379055865	0.001074174
Tmem125 230678	-1.312851949	0.035548517	-1.384706745	0.025102144
Nr1h5 381463	-1.313017779	0.20841633	-1.449577544	0.102137561
Vpreb3 22364	-1.31315117	0.372374696	-2.942539542	0.131712047
4933427D14Rik 74477	-1.313421604	0.253950347	-1.313421604	0.253950347
Ppm1f 68606	-1.313503858	0.11424858	-1.037114991	0.412860034
Afp 11576	-1.313595679	0.318844312	1.218606246	0.353137859
Ddx17 67040	-1.313626255	0.127521386	-1.040027867	0.35535759
Tm7sf2 73166	-1.313652051	0.041152186	-1.456329598	0.000241616
Gapvd1 66691	-1.313899132	0.222241235	-1.194831199	0.293610554
Hcn3 15168	-1.313939614	0.135843154	-1.488465624	0.071507855
Ccdc157 216516	-1.314084215	0.058102909	-1.314084215	0.058102909
2900026A02Rik 243219	-1.314175823	0.085173278	-1.150970451	0.171322303
Npr1 18160	-1.314216434	0.082402477	-1.169567714	0.169260151
Nr1h2 22260	-1.314309847	0.023553724	-1.314309847	0.023553724

D730039F16Rik 77996	-1.314375572	0.001578579	-1.375279193	0.000524056
2610015P09Rik 212153	-1.314659423	0.22614742	1.132162252	0.322541384
2810055F11Rik 67217	-1.314817605	0.038680422	-1.13328963	0.134939413
2310042D19Rik 74183	-1.314986529	0.297923016	-1.314986529	0.297923016
Abl1 11350	-1.315116932	0.08867089	-1.231394224	0.161696413
C3 12266	-1.315160498	0.023604426	-1.3767233	0.003562921
Osbp2 228983	-1.315414297	0.004464033	-1.315414297	0.004464033
Pld4 104759	-1.315455559	0.137928909	-1.48059525	0.038302405
Phkb 102093	-1.3157904	0.151115811	-1.592699615	0.04458858
Fam43a 224093	-1.315891418	0.116931885	-1.538173481	0.035319849
Pldn 18457	-1.315963939	0.140862923	-1.007011774	0.485148919
Ceacam18 72431	-1.315979476	0.373894521	-6.44615	0.04497135
Bdnf 12064	-1.31602366	0.39920484	1	#DIV/0!
Immp2l 93757	-1.316349878	0.087980104	-1.30103008	0.07626039
Cept1 99712	-1.316399589	0.040070915	-1.3096622	0.010671412
Zbed4 223773	-1.316511437	0.345347049	1.284432703	0.311544108
Nek4 23955	-1.316699113	0.269678944	-1.531102273	0.140266256
Rsp3a 66832	-1.316791834	0.133342872	-1.731282252	0.010967572
Gimap4 107526	-1.316982862	0.109850724	-1.210032277	0.202227924
Rab11fip1 75767	-1.317018524	0.014640405	-1.244025695	0.031362082
Pias3 229615	-1.317035489	0.155461902	-1.104118676	0.330049567
2410076I21Rik 73673	-1.317048596	0.294589062	1.022181134	0.483313319
Cstf2t 83410	-1.317097709	0.122853913	-1.020350854	0.449765107
Amot 27494	-1.31714343	0.25623615	-1.732569535	0.120185515
Mup15 100039150	-1.317309738	0.277488925	-1.098173927	0.414607627
Gsta1 14857	-1.317346061	0.35984882	-1.317346061	0.35984882
Gpr146 80290	-1.317382493	0.002994015	-1.202642197	0.003823197
Pbld1 68371	-1.317507199	0.000288409	-1.237218098	0.000251031
Slc25a19 67283	-1.317646886	0.007406115	-1.351328972	0.008158154
Ptger2 19217	-1.317844946	0.280333344	-2.073848937	0.070345111
2210417A02Rik 70138	-1.318091179	0.371956267	-1.117471429	0.447113135
Phf20l1 239510	-1.318187816	0.276540898	1.151945641	0.326913403
Efcab2 68226	-1.318236518	0.297872061	-1.183374847	0.36069788
Arl5b 75869	-1.318451573	0.317671918	1.28704839	0.295280851
Yaf2 67057	-1.318550427	0.098078868	-1.456524047	0.054072487
Timm17b 21855	-1.318558157	0.029726044	-1.318558157	0.029726044
Zcchc14 142682	-1.31868255	0.139533774	-1.097916635	0.307152306
Abcc6 27421	-1.318703296	0.00630505	-1.189291641	0.016701648
Pom121 107939	-1.31891148	0.259396197	-1.211924439	0.309970143
Pdk1 228026	-1.318968334	0.123638541	-1.158940033	0.237814303
Paox 212503	-1.319028824	0.02662753	-1.150644111	0.098576666
Sec22c 215474	-1.319034201	0.010928072	-1.498335914	0.000141799
Ftl2 14337	-1.319079939	0.083136141	-1.47096178	0.035781471
Kif5a 16572	-1.319214725	0.147875255	-1.104063473	0.305835527
Ccdc45 320162	-1.319391354	0.066799329	-1.319391354	0.066799329
E2f7 52679	-1.319415996	0.372645112	-6.462983333	0.044795474
Zbtb5 230119	-1.31984101	0.005138303	-1.385948957	0.002408339
Klh12 240756	-1.319971935	0.17495225	-1.483048105	0.078250761
Pdap1 231887	-1.320065538	0.015217803	-1.320065538	0.015217803
Zfp429 72807	-1.320213411	0.344840544	-2.344773177	0.157931685
Kifc5b 16580	-1.320245596	0.376538721	-7.662133333	0.044268711
Camk1d 227541	-1.320492905	0.208782007	-1.62264234	0.099218391
Ddx23 74351	-1.320590638	0.015050451	-1.320590638	0.015050451

Apol9b 71898	-1.320682791	0.165770042	-1.594762941	0.002006612
E2f6 50496	-1.320713681	0.040563013	-1.593449504	0.000177822
Gm5918 546143	-1.320841744	0.086650918	-1.43776906	0.030463476
Wiz 22404	-1.32097398	0.010785823	-1.32097398	0.010785823
Tex2 21763	-1.320990791	0.135738534	-1.320990791	0.135738534
Ugt1a1 394436	-1.321044557	0.029042668	-1.194976616	0.050481436
Pot1b 72836	-1.321125352	0.200476114	-1.461760061	0.123907526
Zfp518a 72672	-1.321137394	0.270887033	1.047712117	0.454726263
Zfp623 78834	-1.321319296	0.008811293	-1.381414097	0.005809153
Morn2 378462	-1.321419624	0.189007164	-1.321419624	0.189007164
Nsg2 18197	-1.321603493	0.381581988	-2.8	0.173296754
Prr11 270906	-1.321603493	0.381581988	-2.8	0.173296754
Tmem40 94346	-1.321603493	0.381581988	-2.8	0.173296754
Pcdhb20 93891	-1.321603493	0.381581988	-2.8	0.173296754
Abhd14b 76491	-1.321813726	0.029571257	-1.418414896	0.01405959
Ap1g2 11766	-1.322319395	0.133173145	-1.783222978	0.00398412
Bbs4 102774	-1.322325543	0.240780936	1.12204292	0.352864241
Gnas 14683	-1.32232857	0.001227014	-1.32232857	0.001227014
Parp11 101187	-1.322473311	0.154728108	-1.133235465	0.309690858
Unc13c 208898	-1.322528919	0.170447665	-1.582101652	0.073706634
Plxna4 243743	-1.322588535	0.257754241	-2.415676301	0.005248411
Cacnb3 12297	-1.322730347	0.302755016	1.10859724	0.42157837
Cenpl 70454	-1.322856648	0.267838908	-1.027634775	0.476224776
Fam126a 84652	-1.322907896	0.223365888	-1.536743424	0.078033122
Rhbg 58176	-1.323084727	0.103910142	-1.238440935	0.045805364
Smyd2 226830	-1.323122195	0.03366996	-1.222513603	0.069620902
Crebl2 232430	-1.323166496	0.229240361	1.118332682	0.356090691
Rabep2 70314	-1.323214309	0.09781138	-1.323214309	0.09781138
3110070M22Rik 67304	-1.323289955	0.250507445	-1.652146514	0.100586598
Ubr2 224826	-1.323300448	0.040234575	-1.323300448	0.040234575
6430598A04Rik 243300	-1.323479792	0.218602778	-1.567061796	0.033223292
Pik3r6 104709	-1.323591814	0.330142473	-2.859502781	0.06641704
Lix1l 280411	-1.323868535	0.195053267	-1.352575892	0.164331455
Smc1a 24061	-1.32409219	0.041443012	-1.129607876	0.150220272
BC057079 230393	-1.324127892	0.20173885	-1.324127892	0.20173885
Klhl24 75785	-1.324456749	0.27149353	-1.136840738	0.374982418
Ubl7 69459	-1.32490404	0.016521056	-1.363454735	0.017269752
Coil 12812	-1.32491097	0.261181692	-1.32491097	0.261181692
Degs2 70059	-1.324964935	0.301180797	-1.324964935	0.301180797
Necab1 69352	-1.325035261	0.079565116	-1.178156625	0.163020371
Lgr4 107515	-1.325157638	0.146500017	-1.325157638	0.146500017
Cd200 17470	-1.325219034	0.313124173	-1.325219034	0.313124173
Klk8 259277	-1.325385609	0.340255191	-3.089363256	0.074093315
Nkd1 93960	-1.325659107	0.034418804	-1.549906182	0.002059732
Psma8 73677	-1.325835117	0.38018765	-2.8202	0.173296754
Prkd1 18760	-1.325835117	0.38018765	-2.8202	0.173296754
Spg7 234847	-1.325967001	0.002034781	-1.368720668	0.00173085
Hist1h2bc 68024	-1.325973278	0.02002992	-1.325973278	0.02002992
Map2k5 23938	-1.326178906	0.026731445	-1.468363327	0.004080703
Sema3g 218877	-1.326374118	0.376936656	-9.39515	0.038412663
Dr1 13486	-1.326727538	0.289016874	-1.208033174	0.363297945
Mgll 23945	-1.327017527	0.010567552	-1.244148988	0.021026542
Gnat2 14686	-1.327048274	0.359385975	1.266316107	0.39603646

Eno2 13807	-1.327048274	0.359385975	1.266316107	0.39603646
Ebi3 50498	-1.327071081	0.292408598	-1.459512442	0.2321273
Scfd1 76983	-1.327089617	0.073779465	-1.620341535	0.006357144
Pigr 18703	-1.327200988	0.014712387	-1.52314159	0.000124621
Mocos 68591	-1.327291997	0.046042534	-1.213115658	0.091377618
Nth1 18207	-1.327363781	0.150008073	-1.795593086	0.009123087
Nlk 18099	-1.327378121	0.244490424	-1.248951504	0.138727518
Lpcat1 210992	-1.327453214	0.375381462	-4.56078	0.070574133
Ank1 11733	-1.327566667	0.383751051	-3.925	0.173296754
Suclg2 20917	-1.327766937	0.010957733	-1.264544706	0.024205395
Ces1g 12623	-1.327770065	0.044754732	-1.118837878	0.148729962
Maob 109731	-1.327976806	0.051421877	-1.377590738	0.049592776
Fam82a2 67809	-1.328239392	0.061914169	-1.097512215	0.237900785
H2-Oa 15001	-1.328587642	0.340680717	-2.287459648	0.164128923
Zdhhc5 228136	-1.32861983	0.046648562	-1.388103075	0.013940786
Crebbp 12914	-1.328691076	0.258666804	-1.204247011	0.29243425
Trak1 67095	-1.328771209	0.062511868	-1.3268566	0.034877855
Eepd1 67484	-1.328821204	0.03313564	-1.361853301	0.009351714
Smarca4 20586	-1.328932059	0.006207172	-1.179734862	0.005961482
Dgke 56077	-1.328940719	0.353955329	1.523109041	0.284366488
Fam76a 230789	-1.32899241	0.064676535	-1.301047472	0.008548424
Ccar1 67500	-1.32907348	0.075286502	-1.388407071	0.02452775
Susd1 634731	-1.329297505	0.169561393	-1.718171172	0.031692902
Pptc7 320717	-1.32936791	0.269892673	1.092435633	0.406071498
Sap30bp 57230	-1.32949714	0.042973549	-1.217883645	0.085049487
Etl4 208618	-1.329506379	0.223345218	1.10875104	0.364932735
Tbc1d14 100855	-1.329511228	0.090197093	-1.187145026	0.184654914
Parp4 328417	-1.329553188	0.130097754	-1.084180985	0.28119422
Gstm1 14862	-1.329719871	0.122414607	-1.372907235	0.03728544
Mark4 232944	-1.33014244	0.099757634	-1.596048201	0.01450168
Il15ra 16169	-1.330154367	0.050775302	-1.438793487	0.012344311
Samd8 67630	-1.330593249	0.126219958	-1.112062004	0.273859473
Frm4b 232288	-1.330622603	0.121967136	-1.336180288	0.083432379
Bcl3 12051	-1.330696066	0.07633792	-1.168427185	0.150692846
Hdhd2 76987	-1.330744718	0.025533387	-1.409978259	0.005260259
Prkcb 18751	-1.330760793	0.167176812	-1.397267097	0.086576375
Hc 15139	-1.330773514	0.004998491	-1.330773514	0.004998491
Myo1d 338367	-1.330925821	0.010363138	-1.413819907	0.001039782
Ppapdc2 74411	-1.331017873	0.08563455	-1.668998335	0.003916811
Gcgr 14527	-1.331218472	0.001390434	-1.434993047	6.54951E-05
Slc25a30 67554	-1.33133916	0.274402195	1.105780525	0.396674352
Adck2 57869	-1.331345399	0.045244709	-1.331345399	0.045244709
Myst3 244349	-1.331351996	0.208669439	1.026016111	0.445183777
Car2 12349	-1.331571092	0.101081732	-1.166012989	0.203421392
Dnm1l 74006	-1.331717531	0.070491475	-1.084045224	0.250763374
R3hdm2 71750	-1.332010053	0.00850282	-1.418281536	0.002915319
Dennd4b 229541	-1.33215899	0.242446982	-1.528539075	0.138817309
Snx18 170625	-1.332189989	0.063942165	-1.332189989	0.063942165
Ino80c 225280	-1.332376935	0.09986168	-1.161005302	0.208185589
Pgm5 226041	-1.332747121	0.268154581	-1.244866503	0.30241805
Stxbp6 217517	-1.332832099	0.064728896	-1.488270106	0.023633113
Hcls1 15163	-1.333230574	0.090074618	-1.333230574	0.090074618
Mx1 17857	-1.333432453	0.342706022	-3.943418182	0.013288051

Tle3 21887	-1.33347032	0.06353116	-1.07367455	0.237246147
Nbas 71169	-1.333514823	0.035905522	-1.333514823	0.035905522
Tmem220 338369	-1.333645761	0.211194061	-1.333645761	0.211194061
Cd300lg 52685	-1.333896044	0.017807324	-1.377349315	0.01401513
Pxmp2 19301	-1.333947135	0.004635243	-1.407297681	0.000366519
Fbxo21 231670	-1.334224355	0.060323208	-1.334224355	0.060323208
Zfp963 620419	-1.334388852	0.113462561	-1.492052511	0.029704813
8030462N17Rik 212163	-1.334421912	0.29931595	-2.065116859	0.1236989
Cphx 105594	-1.334585635	0.357217834	1.469092247	0.321394913
Vgll4 232334	-1.334957486	0.284696954	-1.522916469	0.157754153
Xrcc6bp1 68876	-1.33508279	0.209100753	-1.336592672	0.092336591
Nek9 217718	-1.335203997	0.005114041	-1.255692005	0.009029527
Mmp19 58223	-1.335276828	0.075580411	-1.160434891	0.14014469
Aoc3 11754	-1.335355238	0.384009973	-1.906558976	0.209895125
Tef 21685	-1.335475113	0.022106837	-1.418138115	0.005884095
2810403A07Rik 74200	-1.335573567	0.129798709	-1.335573567	0.129798709
Bahcc1 268515	-1.335846429	0.183696801	-1.051710481	0.415956888
Clcn7 26373	-1.335943244	0.106283486	-1.335943244	0.106283486
Ints6 18130	-1.336089657	0.148261308	-1.139461229	0.300952037
Hk3 212032	-1.336108028	0.231476967	-1.022829383	0.474131376
Kdm2a 225876	-1.336159255	0.096371608	-1.522237374	0.038288339
Lgals3 16854	-1.336176299	0.132478998	-1.191984544	0.234654743
Kalrn 545156	-1.336188404	0.119683997	-1.590435962	0.033773166
Glud1 14661	-1.336302404	0.003400112	-1.290932059	0.000564967
Pstpip2 19201	-1.336325085	0.17084267	-1.634612536	0.065945999
Rnf31 268749	-1.336331321	0.016936865	-1.521817373	6.53592E-05
Ssx2ip 99167	-1.33639393	0.154342395	-1.75855581	0.014771034
Flt1 14254	-1.336482297	0.181032996	-1.083239238	0.382768715
Wnk4 69847	-1.336813789	0.134255903	-1.336813789	0.134255903
Klhl38 268807	-1.336998492	0.394181862	1	#DIV/0!
Gm11992 626870	-1.336998492	0.394181862	1	#DIV/0!
Akap6 238161	-1.336998492	0.394181862	1	#DIV/0!
Atxn2l 233871	-1.337038585	0.008669799	-1.253822684	0.017000996
P4hb 18453	-1.337077772	0.002120248	-1.297847348	0.004952255
Hist1h1e 50709	-1.337091956	0.366630241	-6.549566667	0.045145192
Gmfb 63985	-1.337435428	0.19012039	-1.158471867	0.310467534
Ppt1 19063	-1.337452156	0.059213454	-1.302331869	0.002030634
Chrn2 11444	-1.3374547	0.185100075	-1.3374547	0.185100075
Hes6 55927	-1.33747836	0.109339227	-1.319705876	0.084225281
Smug1 71726	-1.337590268	0.243286774	1.13705417	0.358239726
Uba3 22200	-1.33776753	0.109997415	-1.33776753	0.109997415
She 214547	-1.338038583	0.301169082	-1.593624653	0.143195321
Exosc1 66583	-1.338176197	0.02147379	-1.158854828	0.070847325
Upf3b 68134	-1.338272843	0.159267445	-1.123930774	0.326180969
Spn 56381	-1.338501081	0.130994525	-1.573884884	0.050897272
Ctbp2 13017	-1.338738827	0.323385391	1.253162873	0.353490254
Fbxo28 67948	-1.338792618	0.131565105	-1.591378121	0.045363097
Vwce 71768	-1.339018685	0.005798974	-1.259418034	0.006452525
Cep68 216543	-1.339118868	0.114544809	-1.205842837	0.218313743
Zfp672 319475	-1.339257486	0.090620411	-1.244119797	0.157464842
Wwc2 52357	-1.339386058	0.160333038	-1.065780667	0.370847115
Mcm3ap 54387	-1.339800736	0.041954335	-1.239255843	0.085840705
Mboat7 77582	-1.339828193	0.015384697	-1.339828193	0.015384697

Gja5 14613	-1.339888993	0.216315192	-1.635874279	0.055989877
Ccm2 216527	-1.339913283	0.039263086	-1.392719756	0.004877383
Suv39h1 20937	-1.340203924	0.133941603	-1.340203924	0.133941603
Cpsf6 432508	-1.340253692	0.109416692	-1.340253692	0.109416692
Agpat2 67512	-1.340397905	0.023607701	-1.340397905	0.023607701
2410018M08Rik 71970	-1.340438985	0.18795568	-1.065061106	0.407095348
Cryz 12972	-1.340649147	0.021949636	-1.252696718	0.043235125
Nr5a2 26424	-1.340727944	0.233854001	1.039906944	0.445212708
Cherp 27967	-1.340800521	0.037447826	-1.121216056	0.127981699
Eif4ebp2 13688	-1.340874332	0.209895486	-1.564581875	0.138993006
Cradd 12905	-1.341696706	0.007923981	-1.282924005	0.016782507
Dennd1c 70785	-1.341927444	0.167517676	-1.213134838	0.276021277
Acs1 14081	-1.342078269	0.101303052	-1.171100405	0.210519624
Fnbp4 55935	-1.342353607	0.208307561	-1.033853749	0.454570613
Acr 11434	-1.342422709	0.376959751	1.264185714	0.40907038
Plxnd1 67784	-1.342456234	0.0080049	-1.38867251	0.000201976
Etnk1 75320	-1.342707436	0.118845355	-1.221166708	0.165350616
Gda 14544	-1.342711274	0.201319083	-1.017711315	0.471696111
Gm6788 627788	-1.342760622	0.204865465	-1.475933003	0.090025341
Fam133b 68152	-1.342854019	0.177586981	-1.723285139	0.049047652
Zfp280b 64453	-1.342927439	0.109070489	-1.153607231	0.22292114
Hoga1 67432	-1.342943499	0.001107108	-1.407316863	0.000081076
Zfp292 30046	-1.343082609	0.177043323	-1.120424413	0.350107265
Lrpap1 16976	-1.343273047	0.001252103	-1.296928622	0.003016666
Khk 16548	-1.34345156	0.056794383	-1.304230543	0.043143579
Zfp422 67255	-1.343602494	0.077131589	-1.343602494	0.077131589
Smpd4 77626	-1.343625507	0.064390695	-1.198292138	0.131467343
Hipk2 15258	-1.344169483	0.074671953	-1.735543683	0.00047452
Pomt1 99011	-1.344291767	0.007939054	-1.411854583	0.002067242
Pkd2 18764	-1.344331712	0.245529103	1.08938637	0.374043628
9630033F20Rik 319801	-1.344424956	0.110022251	-1.344424956	0.110022251
Slc35d1 242585	-1.344558694	0.159347344	-1.093808728	0.349362469
Caskin2 140721	-1.344751725	0.057680409	-1.488685401	0.02421375
Adat3 100113398	-1.344755135	0.267160703	1.273735929	0.243989024
Entpd8 72090	-1.344837481	0.002606586	-1.344837481	0.002606586
AA986860 212439	-1.344984168	0.104852972	-1.174505864	0.215646249
B230206F22Rik 78878	-1.345025684	0.192890209	-1.340754799	0.069009306
Plcb1 18795	-1.345073603	0.259389107	-1.729054581	0.149635913
Zfp185 22673	-1.345305628	0.331957862	-2.334383838	0.154268948
Fcer2a 14128	-1.345316498	0.369516808	-1.051233705	0.480889446
H2-DMb2 15000	-1.345463362	0.374343142	-1.379436792	0.355043416
Mettl15 76894	-1.345475007	0.268539601	-1.345475007	0.268539601
Ifit3 15959	-1.345906715	0.037515181	-1.29432553	0.07192693
Antxr2 71914	-1.346021247	0.090728075	-1.473885185	0.032593974
Agmat 75986	-1.346130913	0.017490504	-1.31790127	0.012133234
Ube2d1 216080	-1.346186789	0.133293188	-1.346186789	0.133293188
Serpind1 15160	-1.346416139	0.005128103	-1.270941711	0.010180795
Ndufaf1 69702	-1.346441747	0.049838979	-1.217590645	0.102023949
Rnf115 67845	-1.346542962	0.162307242	-1.124357171	0.331733448
Orc5 26429	-1.346690428	0.040767141	-1.197917368	0.07648288
Med28 66999	-1.346757622	0.013814019	-1.23870566	0.01243618
Zfp319 79233	-1.346835424	0.10800052	-1.123734444	0.227579614
Dut 110074	-1.346887114	0.071455615	-1.210309314	0.146218672

Cebpa 12606	-1.346976006	0.02635659	-1.225506668	0.037014197
Ptprc 19264	-1.346979373	0.198300628	-1.126963952	0.147920313
Csnk1g2 103236	-1.34726091	0.003332371	-1.34726091	0.003332371
C230035I16Rik 320842	-1.34780144	0.391661509	1	#DIV/0!
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Klrb1b 80782	-1.34780144	0.391661509	1	#DIV/0!
Cpn2 71756	-1.347883479	0.001746789	-1.290500826	0.002531694
Golph3 229593	-1.348016597	0.191701864	-1.635952563	0.097622336
Zfp687 78266	-1.348123422	0.029848575	-1.234209365	0.060943441
Elac1 114615	-1.348164757	0.020036831	-1.238157008	0.028225682
Edc3 353190	-1.348420303	0.048227736	-1.477132732	0.022204248
Adipoq 11450	-1.348555544	0.409447926	1	#DIV/0!
Fam178a 226151	-1.348658833	0.136332838	-1.02645089	0.439285908
Cdc45 12544	-1.348702716	0.200233393	-1.501180715	0.123793287
1810010H24Rik 69066	-1.348736424	0.221179198	-2.114819753	0.013218768
Wdr25 212198	-1.348741611	0.053070944	-1.090186534	0.172388361
Sphk2 56632	-1.348856953	0.001244283	-1.300222942	0.002947643
Atpaf1 230649	-1.348911999	0.13797448	-1.892530254	0.004146658
Ptpn23 104831	-1.348974548	0.000451019	-1.372806686	0.000526848
Irx1 16371	-1.349019632	0.163860993	-1.349019632	0.163860993
Cd300ld 217305	-1.349070352	0.045230256	-1.364283035	0.016474665
Arhgap26 71302	-1.349300894	0.104969615	-1.126946392	0.21034102
Hlx 15284	-1.349553618	0.017385966	-1.431356272	0.004468666
Zfp426 235028	-1.349801075	0.21434975	1.156628207	0.267821489
Prss36 77613	-1.349830488	0.100830166	-1.507227102	0.028148996
E230029C05Rik 319711	-1.349911456	0.388243206	-3.9746	0.173296754
Nr1i3 12355	-1.350055558	0.006435138	-1.478899237	0.000290984
Med25 75613	-1.350180131	0.016511101	-1.265617648	0.031862831
Fam48a 56790	-1.350205866	0.043295048	-1.211169058	0.086908095
Fbf1 217335	-1.350356162	0.080642738	-1.196393662	0.165672432
Cobra1 58202	-1.350398608	0.011362586	-1.291248544	0.004189617
Ftsj2 68017	-1.350610196	0.095858248	-1.173508391	0.199192278
Ipp 16351	-1.350676056	0.178690678	-1.350676056	0.178690678
Hfe2 69585	-1.350822138	0.014157242	-1.49575268	0.001183003
Akap9 100986	-1.350846503	0.146480908	-1.000728771	0.498268677
Fgfr3 14184	-1.35085553	0.064463413	-1.224066056	0.131708463
Fn3krp 238024	-1.350924946	0.134873179	-1.536862254	0.034808562
Ddx26b 236790	-1.350925335	0.287955466	1.061922605	0.454450904
Stim2 116873	-1.350931469	0.197793018	-1.030806705	0.453518338
Pvr 52118	-1.350978781	0.131534211	-1.522044253	0.04113575
Zfp189 230162	-1.351050521	0.306274506	-1.868402147	0.188726082
BC017158 233913	-1.351338592	0.01687486	-1.269737113	0.036198531
Brpf3 268936	-1.351352532	0.069550235	-1.274592759	0.120884546
Gm7694 665574	-1.351474642	0.253200348	-1.464717511	0.19287666
Ehbp1 216565	-1.351510805	0.160739023	-1.866241731	0.009858682
Plcd1 18799	-1.351671391	0.233885768	-1.351671391	0.233885768
Fchs1 319262	-1.351930117	0.213452833	-2.16580548	0.015492818
Tmem209 72649	-1.352240322	0.1693354	-1.352240322	0.1693354
Ick 56542	-1.352471862	0.091308435	-1.394024016	0.002347593
Ccdc111 408022	-1.352490219	0.247545134	-2.239852819	0.025496855
Tmem131 56030	-1.352774532	0.059058228	-1.416964469	0.025696171
Crtc1 382056	-1.352795217	0.008966867	-1.434459282	0.001214146
Fam188b 330323	-1.352858329	0.185298438	-1.722981362	0.044657856

Foxj1 15223	-1.352858382	0.352298073	1.230375659	0.37752335
Lemd3 380664	-1.352945127	0.150105214	-1.828390172	0.008903277
Bzw2 66912	-1.353159759	0.018662125	-1.413421582	0.003598916
Snx22 382083	-1.353443429	0.090676035	-1.235976011	0.164937371
Gstt2 14872	-1.353524283	0.064624261	-1.498528341	0.030698248
Atg7 74244	-1.353719131	0.015630086	-1.36827828	0.005383422
Ift81 12589	-1.353784957	0.228630478	-1.132709931	0.385615835
BC016423 105203	-1.35385673	0.275766949	1.098707743	0.414293843
Rgl3 71746	-1.35391588	0.000469541	-1.380408223	0.000489225
Mast3 546071	-1.353926644	0.089394671	-1.223603618	0.168191607
Cdr2 12585	-1.35398064	0.285540033	-1.35398064	0.285540033
Racgap1 26934	-1.353992812	0.343682474	-2.508442186	0.166458789
Tjp3 27375	-1.354012199	0.015792587	-1.270386516	0.033827114
Gm12942 100039968	-1.354068564	0.07675085	-1.354068564	0.07675085
Rhoq 104215	-1.354112948	0.267751258	-1.339642396	0.225313806
Eil3 269344	-1.354225644	0.262858912	-2.303446792	0.038448787
Apaf1 11783	-1.354406892	0.132999828	-1.92953544	0.000644602
Gm4926 237749	-1.354443828	0.29025544	-1.354443828	0.29025544
Tapbp1 213233	-1.35454958	0.02514321	-1.13848528	0.057031545
Vipar 104799	-1.354557992	0.056814095	-1.503428459	0.023774299
Hook3 320191	-1.354651048	0.178732306	-1.164912279	0.252258076
Wbp1 22377	-1.354805744	0.011669287	-1.354805744	0.011669287
Lmtk2 231876	-1.354825564	0.078528037	-1.232130952	0.149490845
Polr2a 20020	-1.354923436	0.011097767	-1.380111949	0.000141044
Shpk 74637	-1.355109201	0.012807557	-1.284641218	0.00072607
Gulo 268756	-1.355117254	0.006829872	-1.349616095	0.004335941
Acot6 217700	-1.355171573	0.386914243	-2.76078	0.173296754
Mcp1 244329	-1.355235317	0.142301636	-1.132375479	0.286426842
1700027D21Rik 76573	-1.355490213	0.287659882	1.034232827	0.475569282
Dpy19l4 381510	-1.355559808	0.253783749	-1.001784054	0.498341388
Abcg1 11307	-1.355561083	0.03744324	-1.468429607	0.006856434
Mustn1 66175	-1.355743511	0.069678314	-1.542861238	0.02245349
Sqrdl 59010	-1.355752182	0.001512866	-1.483676774	9.39701E-05
Gm8369 666926	-1.355943524	0.307794225	-1.355943524	0.307794225
Mks1 380718	-1.356279524	0.228176968	-1.356279524	0.228176968
Tnrc18 231861	-1.356869542	0.021435915	-1.367550206	0.008813541
Ftsjd1 234728	-1.357009557	0.348005399	1.67712829	0.222597488
Slc25a21 217593	-1.357040919	0.042033691	-1.134008215	0.104464007
Ntm 235106	-1.357149171	0.306827708	-1.357149171	0.306827708
Ceacam2 26367	-1.357166634	0.230387007	-2.462930579	0.003499089
Fbrsl1 381668	-1.357208561	0.120467445	-1.601962211	0.044724871
Gc 14473	-1.357341828	0.029974818	-1.566305141	0.000734528
Pnp2 667034	-1.35744614	0.030238418	-1.242659823	0.055226126
Naa15 74838	-1.357450466	0.026902558	-1.427552562	0.000536357
Ttr 22139	-1.357712487	0.140131155	-1.188744542	0.135277413
Cnot4 53621	-1.357904564	0.049730031	-1.357904564	0.049730031
Hp 15439	-1.358056591	0.108983424	-1.358056591	0.108983424
Gak 231580	-1.358225329	0.003743152	-1.322993221	0.009024383
Cd2ap 12488	-1.358494988	0.18891759	-1.009071399	0.481253534
Smad4 17128	-1.358586155	0.096878269	-1.396128548	0.029738718
Hyi 68180	-1.358648994	0.10793397	-1.717908918	0.007885661
Ptprb 19263	-1.358800919	0.118801104	-1.2921243	0.030548034
Ccdc41 77048	-1.359029207	0.109645877	-1.4569585	0.036772395

Inpp5b 16330	-1.359189249	0.03494717	-1.129561371	0.11180282
Rtn4rl2 269295	-1.359226097	0.171442156	1.017579567	0.473078734
Slc22a26 236149	-1.359331454	0.058561148	-1.43905623	0.020896037
Gm4144 100042980	-1.35965	0.170446566	1	#DIV/0!
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Lrrc46 69297	-1.359755453	0.257236997	-1.437788618	0.170137979
Uchl4 93841	-1.35989871	0.103669178	-1.545173812	0.015195097
Ggh 14590	-1.360090134	0.12463482	-1.597449699	0.051812096
Rragb 245670	-1.360222857	0.351764186	-3.967316667	0.09324139
Cyp3a44 337924	-1.360333784	0.23081477	-1.637200477	0.091007512
Sftpa1 20387	-1.36053594	0.273616688	-1.038255141	0.472092654
Rbms2 56516	-1.360691735	0.009977377	-1.399389928	0.011137678
Kri1 215194	-1.360716788	0.04765346	-1.533663994	0.01271131
Wdr24 268933	-1.360769327	0.003249779	-1.443772897	8.07141E-05
Dnajc14 74330	-1.361023981	0.010909849	-1.353752217	0.003049797
Prr16 71373	-1.361030535	0.189869849	-1.124142654	0.364192226
Cks1b 54124	-1.361057538	0.060208019	-1.21821474	0.122658738
Sreb2 20788	-1.361091965	0.0801247	-1.079917686	0.291898496
Ankrd12 106585	-1.361884933	0.115251451	-1.361884933	0.115251451
Cep250 16328	-1.362118163	0.057623194	-1.208682797	0.11757834
Hao2 56185	-1.362225	0.32369376	-4.234332783	0.01414089
Zfp192 93681	-1.362619614	0.171098346	-1.313278793	0.105459378
Exog 208194	-1.362841906	0.180207378	-1.362841906	0.180207378
Dock5 68813	-1.362947099	0.028187547	-1.240982353	0.046346443
1300010F03Rik 219189	-1.363569531	0.044846092	-1.363569531	0.044846092
Klhl25 207952	-1.363693305	0.019799636	-1.319687487	0.008461778
Slc25a29 214663	-1.363752862	0.149141563	1.033758702	0.426379199
Batf3 381319	-1.363919663	0.237626509	1.255084747	0.15148536
Mab2112 23937	-1.363920042	0.17485789	-1.137603476	0.3409462
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Plch1 269437	-1.363981872	0.400533235	1	#DIV/0!
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Dhcr24 74754	-1.365303118	0.005735577	-1.42560345	0.00434391
Fblim1 74202	-1.365443945	0.127416386	-1.365443945	0.127416386
Daam2 76441	-1.365456668	0.148897683	-1.365456668	0.148897683
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Kl 16591	-1.365994286	0.34992363	-3.98415	0.093264411
Acy1 109652	-1.366139071	0.010448511	-1.366139071	0.010448511
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Sacm1l 83493	-1.366423267	0.170345477	1.053212231	0.408398892
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Ptprf 19268	-1.366819886	0.009683023	-1.450698452	0.001535417
Dnase1l3 13421	-1.366821433	0.013247293	-1.319157091	0.011367569
Noxo1 71893	-1.366848078	0.129176875	-1.366848078	0.129176875
Cyp2d13 68444	-1.366919496	0.035429045	-1.293807057	0.069048645
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Ocel1 77090	-1.367257715	0.266048113	-2.001607601	0.110569796
Prss53 330657	-1.367273951	0.132583512	-1.278925444	0.073883476
Srpk2 20817	-1.367431613	0.080483645	-1.517245604	0.018362506

Ino80d 227195	-1.367483995	0.081792616	-1.696254046	0.006815997
Farp2 227377	-1.367500287	0.121367117	-1.154644785	0.256790551
Lamb1 16777	-1.367627989	0.098433408	-1.367627989	0.098433408
Esyt1 23943	-1.367668177	0.013839087	-1.367668177	0.013839087
Nckap5l 380969	-1.367726317	0.246785198	-1.414730654	0.133070055
Ccdc64b 212733	-1.367738506	0.325720761	-2.289771507	0.165889172
Aspa 11484	-1.368037193	0.195979893	-1.077705491	0.407397778
Exoc4 20336	-1.36813263	0.164044486	-1.144472865	0.307562581
Alad 17025	-1.36819759	0.015974891	-1.311572256	0.010347948
Lypla1 18777	-1.36864174	0.137233297	-1.261640564	0.126642024
Tmem104 320534	-1.368651056	0.008158954	-1.452744859	0.004044425
Abcc2 12780	-1.368857029	0.089987546	-1.204624068	0.185050868
A730011L01Rik 338371	-1.368878773	0.020234649	-1.35931623	0.009803814
Tada2b 231151	-1.369042063	0.125252076	-1.543522624	0.038943372
Ttc14 67120	-1.369129473	0.138661226	-1.342349642	0.137234493
Dlg5 71228	-1.369157736	0.18085997	-1.1936258	0.293753962
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Ugdh 22235	-1.369952706	0.032030463	-1.626077109	0.001118807
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Slc30a7 66500	-1.370033381	0.023795248	-1.456242066	0.007983001
Sepx1 27361	-1.370060393	0.049456969	-1.354383063	0.020952244
Lrp1 16971	-1.370331359	0.003154292	-1.439130954	0.00174441
Ccdc37 243538	-1.370621322	0.370686858	-7.725	0.072984714
Kif3c 16570	-1.370680117	0.088160758	-1.207067629	0.174946714
Aars 234734	-1.370689085	0.011602659	-1.349068073	0.006222731
Fam57b 68952	-1.370695837	0.240445758	-2.345509408	0.018096045
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Mlst8 56716	-1.370923446	0.035917464	-1.602167559	0.001404432
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Mettl9 59052	-1.371239501	0.037022975	-1.507427719	0.015196515
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Clec1a 243653	-1.371676929	0.297558623	1.029360642	0.481678818
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Ino80b 70020	-1.371921632	0.046365524	-1.371921632	0.046365524
Polr3g 67486	-1.372344805	0.210589744	-1.184565558	0.25915258
Atrn 11990	-1.372425956	0.142762446	-1.095989391	0.320857335
Timd4 276891	-1.372433331	0.086246895	-1.728194322	0.004431072
Il2rg 16186	-1.37243927	0.104054728	-1.608733896	0.0381154
Neu2 23956	-1.372606798	0.203553081	-1.638049745	0.061439593
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Nbn 27354	-1.372748962	0.030863666	-1.372748962	0.030863666
Golim4 73124	-1.37282893	0.208525486	-1.085967229	0.410604126
Pax1 18503	-1.37283176	0.355805489	-4.56078	0.070574133
Wfdc1 67866	-1.372931143	0.214769833	-1.075099504	0.423329787
Kctd12 239217	-1.373110937	0.090851235	-1.524936827	0.054333965
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Arhgef11 213498	-1.373484362	0.024731256	-1.507379146	0.008064605
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Fam63b 235461	-1.374124508	0.231890485	-2.413903026	0.012572329
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Sema4g 26456	-1.374396002	0.04036705	-1.225329552	0.064791735
Smyd3 69726	-1.374522229	0.159182166	-1.374522229	0.159182166
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Crot 74114	-1.375231964	0.099610864	-1.429648123	0.063731584
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Serpina3g 20715	-1.376308033	0.027086867	-1.293575354	0.002937639
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Mir686 751525	-1.376565313	0.356750222	-8.263164218	0.038200272
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Lonp2 66887	-1.376787795	0.00580144	-1.310609179	0.011553562
Mapk4 225724	-1.376907849	0.262228954	-1.376907849	0.262228954
2310003H01Rik 71885	-1.37713444	0.075022103	-1.205810111	0.15199518
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Gbp7 229900	-1.377264395	0.132253397	-1.098989152	0.290328467
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Vav2 22325	-1.377750989	0.211561484	1.124796275	0.341776157
Gm13308 621580	-1.377877103	0.345406301	1.298566723	0.385674711
Dio1 13370	-1.377885862	0.007641207	-1.445686895	0.005534754
Gnao1 14681	-1.378009589	0.262146083	-1.517362477	0.193892634
41160 20362	-1.378037872	0.090526693	-1.069932851	0.343539825
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Sik2 235344	-1.378287074	0.230663695	-1.448296524	0.192518363
Gtf3a 66596	-1.378433077	0.146135253	-1.378433077	0.146135253
Atg3 67841	-1.37845722	0.004993745	-1.458645486	0.000567676
Yars2 70120	-1.378721373	0.080438385	-1.46879629	0.051246532
Nr2f2 11819	-1.378748817	0.067476549	-1.32869998	0.076977578
Dynlt1a 100310872	-1.378965642	0.318380277	-1.397166728	0.337866371
Rbm20 73713	-1.379111652	0.228659709	-1.704742563	0.141481094
Tubg1 103733	-1.379161438	0.009409663	-1.458450088	0.005767648
Aaas 223921	-1.379237503	0.146531564	-1.84072627	0.018259453
Psip1 101739	-1.379451967	0.05293051	-1.379451967	0.05293051
Gba 14466	-1.379566846	0.01627601	-1.379566846	0.01627601
Tpcn1 252972	-1.379687592	0.000276515	-1.379687592	0.000276515
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Srsf11 69207	-1.379919415	0.190984655	1.068641153	0.406717095

Car9 230099	-1.380048213	0.362834977	-2.8	0.173296754
Prodh 19125	-1.380091954	0.003295134	-1.345513877	0.000715713
Odf2 18286	-1.380268176	0.148562695	-1.74214934	0.043210081
Eda 13607	-1.38042249	0.194935966	-1.669980239	0.113370679
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Gmppa 69080	-1.38075742	0.058830824	-1.136961065	0.212972903
Fam188a 66960	-1.380769044	0.19274176	-1.075620797	0.408782705
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Elmo3 234683	-1.380964057	0.009021394	-1.539673917	0.000354513
Aim1 230806	-1.3810004	0.194075377	-1.718475033	0.097951795
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Ccrn4 12457	-1.381582378	0.102283491	-1.373219294	0.054161493
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Ispd 75847	-1.381975385	0.27162601	-1.612452991	0.182349547
Rom1 19881	-1.38220252	0.074630213	-1.180347872	0.151582095
Baz1a 217578	-1.382271076	0.114112312	-1.256434961	0.206225732
Trim44 80985	-1.382340488	0.129399691	-1.581349814	0.07586868
Nod2 257632	-1.382378653	0.341144726	-1.382378653	0.341144726
Tnfrsf21 94185	-1.382401241	0.130170034	-1.696585706	0.040641712
Cnih4 98417	-1.382480124	0.002098227	-1.45484347	0.000181572
Acly 104112	-1.382519471	0.086740959	-1.19126724	0.177724908
Zfp799 240064	-1.382542426	0.174937073	-2.217059735	0.00209878
Cdkn2aip 70925	-1.382803012	0.149969622	-1.382803012	0.149969622
Tram2 170829	-1.382850482	0.142327196	-1.113388742	0.314541002
Arid1a 93760	-1.382873553	0.117937065	-1.113237768	0.24074699
Zfc3h1 216345	-1.382931286	0.155271549	-1.066013813	0.364890319
Pkp3 56460	-1.382997547	0.095073759	-1.163956027	0.192015432
Snrnp25 78372	-1.383003557	0.198747425	-1.383003557	0.198747425
Plcx1 403178	-1.383215676	0.109333066	-1.217264147	0.204764569
Naaa 67111	-1.383479856	0.150560821	-1.142206583	0.313624281
St3gal3 20441	-1.383577558	0.004338734	-1.32440716	0.01020353
Mme 17380	-1.384098766	0.207274372	1.173122546	0.223982008
Thns1 208967	-1.384191483	0.234362869	1.194728796	0.288001375
Cd4 12504	-1.384388638	0.05988025	-1.384549973	0.060509026
2410091C18Rik 73694	-1.384421546	0.045940671	-1.218109993	0.070040812
Ttc15 217449	-1.38452783	0.049543858	-1.511475417	0.028437143
Gpr39 71111	-1.384635554	0.097251678	-1.601113837	0.005790899
Rdh16 19683	-1.384888276	0.079670658	-1.51544462	0.016299959
Klhl17 231003	-1.385075579	0.026068959	-1.498962386	0.013241755
Mmp9 17395	-1.385150748	0.235527833	-1.089293569	0.425973545
Crkl 12929	-1.385193796	0.274763364	-1.385193796	0.274763364
Postn 50706	-1.385228535	0.189138251	-1.537224751	0.12557546
Kif11 16551	-1.385313689	0.315371574	-1.385313689	0.315371574
Klb 83379	-1.386007476	0.039487781	-1.298046008	0.030418116
Ccn1 56706	-1.386043081	0.12653697	-1.186531669	0.256718888
Hvcn1 74096	-1.386153923	0.156397706	-1.155794774	0.31397169
Cyp2c50 107141	-1.386525958	0.126993994	-1.115032291	0.275718862
Huwe1 59026	-1.386628779	0.047758473	-1.297411812	0.045304074
Evi5 14020	-1.38679163	0.16075036	1.015914331	0.468835704
Rad54 19366	-1.386799788	0.30480756	-3.356105893	0.038371173
Vldlr 22359	-1.386960215	0.201270543	-1.270852999	0.214720014
Zfp763 73451	-1.387952655	0.317155729	-1.903582746	0.19072579
Rtn1 104001	-1.388110974	0.260484873	-1.842196518	0.152968183

Pde1b 18574	-1.388471312	0.200211628	-1.180343835	0.342890587
Camk2a 12322	-1.388521756	0.297796367	-2.391230356	0.116468777
Arhgap32 330914	-1.388564699	0.167885339	-1.376547679	0.158314968
Gse1 382034	-1.388667786	0.197801024	-1.638785125	0.131695203
Gm5465 432879	-1.388883333	0.170446566	1	#DIV/0!
6230400D17Rik 76133	-1.388902728	0.231855875	-1.165483644	0.357431858
Sc5d 235293	-1.389275205	0.053835562	-1.273732513	0.023762986
C1qtnf7 109323	-1.389545849	0.279829777	-3.010586893	0.023511985
Zfand1 66361	-1.389815682	0.165590607	-1.389815682	0.165590607
Noa1 56412	-1.390264982	0.029227972	-1.540755162	0.009423792
Trpm4 68667	-1.390560948	0.077666283	-1.552015943	0.015741031
Zc3h11a 70579	-1.390592353	0.132174864	-1.390592353	0.132174864
Inf2 70435	-1.390718507	0.000426567	-1.407281491	0.000841315
Dcun1d4 100737	-1.390899117	0.121369066	-1.060279308	0.395816383
Vps41 218035	-1.390970243	0.028676185	-1.37086041	0.00740971
Atm 11920	-1.391002034	0.222220319	-1.938700635	0.081856295
Zfp180 210135	-1.391143009	0.119674046	-1.492384976	0.044479407
Gjb2 14619	-1.391193476	0.042443507	-1.135955433	0.146632485
Ido2 209176	-1.391398638	0.016612676	-1.391398638	0.016612676
Osbpl5 79196	-1.39146991	0.109670302	-1.408156722	0.089242275
Mgam 232714	-1.391580247	0.020583374	-1.506286999	0.009653938
Ncoa6 56406	-1.391721138	0.196877321	-1.278717648	0.245947453
Metap1d 66559	-1.391795808	0.015977309	-1.483564869	0.003792987
Gpr110 77596	-1.391928303	0.278993051	-1.391928303	0.278993051
Ubp2 68926	-1.392022777	0.116252826	-1.595079071	0.064426589
Rgl1 19731	-1.392122216	0.053126673	-1.392122216	0.053126673
BC005537 79555	-1.392319256	0.162467093	-1.307599354	0.19279403
Cmpk2 22169	-1.392346524	0.169410614	-1.226486976	0.288287299
Bcl7a 77045	-1.392677348	0.027120386	-1.163116866	0.087621202
S1pr1 13609	-1.392838823	0.08754642	-1.180234429	0.174527771
Trim46 360213	-1.392862431	0.303053729	-3.088025253	0.059099193
Vang1 229658	-1.392959969	0.097607403	-1.366251841	0.065099975
Fzd1 14362	-1.393095078	0.153460669	-1.20125434	0.268131068
Cyp2e1 13106	-1.39325762	0.038138293	-1.261337684	0.073428732
Mafb 16658	-1.393524677	0.047690005	-1.272314597	0.097594958
Gm5069 277333	-1.393922029	0.091836311	-1.276186884	0.16057112
Clec16a 74374	-1.394194668	0.038525958	-1.30430756	0.078924482
Masp1 17174	-1.394372375	0.088370854	-1.375354556	0.065218534
Cyp2b9 13094	-1.39440033	0.02530359	-1.39440033	0.02530359
Lrch1 380916	-1.394498864	0.062938894	-1.394498864	0.062938894
Aqr 11834	-1.394819505	0.038679656	-1.551430928	0.014675793
Ing5 66262	-1.394963033	0.109310717	-1.662112837	0.039777711
Rapgef2 76089	-1.395038682	0.186026539	-1.032543746	0.447650408
Snai2 20583	-1.395054898	0.197535227	-1.247063581	0.181364675
Loxl1 16949	-1.395670553	0.186122766	-2.24976513	0.007408039
Slc46a3 71706	-1.395858563	0.012379634	-1.317732051	0.025716046
Nfix 18032	-1.396133801	0.234748644	-1.179973133	0.292289683
Adck1 72113	-1.396543439	0.04193251	-1.624253327	0.005416471
Igtp 16145	-1.396565322	0.0010129	-1.342090453	0.001752293
Rdx 19684	-1.396663459	0.144780234	-1.189687249	0.192364698
Fam189b 68521	-1.396717296	0.258872616	-1.036661912	0.472620163
Rbms3 207181	-1.396830066	0.289216007	-2.370158645	0.110597757
Ddb2 107986	-1.396908202	0.266470036	1.119222435	0.395387717

Abcc10 224814	-1.397336525	0.055167668	-1.757414999	0.001130136
Tpk1 29807	-1.397402766	0.086703459	-1.825288334	0.006802134
1190007107Rik 544717	-1.397416249	0.124652571	-1.148529968	0.268043013
Ncf2 17970	-1.39767543	0.191379085	-1.39767543	0.191379085
Med15 94112	-1.397694534	0.050421427	-1.131490954	0.192059388
Mapkapk3 102626	-1.397936532	0.199282005	1.073114991	0.40938713
Gpd1 14555	-1.398168875	0.004131419	-1.347850643	0.009543132
Pdgfa 18590	-1.398219388	0.244183524	-1.063214385	0.449805873
1300018117Rik 72325	-1.398293107	0.028466097	-1.161497761	0.082701263
Grif1 232906	-1.398328048	0.046196404	-1.235089506	0.079503591
Pipox 19193	-1.398776285	4.04544E-05	-1.441602628	3.02541E-05
Mdm4 17248	-1.398818884	0.277935505	-1.749027877	0.159597467
Wasf1 83767	-1.398881142	0.168150962	-1.398881142	0.168150962
Adamts7 108153	-1.398886439	0.16353285	-1.170672938	0.205504817
Nqo2 18105	-1.399153412	0.0544023	-1.254927357	0.110000972
Tctex1d2 66061	-1.399198323	0.292822829	1.261638371	0.310538711
Rabif 98710	-1.399225809	0.040711047	-1.399225809	0.040711047
Mtap1s 270058	-1.399388446	0.059522741	-1.398559327	0.053224869
Ubiad1 71707	-1.399487494	0.12773291	-1.399487494	0.12773291
Evc 59056	-1.399614702	0.121369993	-1.717418482	0.037781344
Acad10 71985	-1.399714728	0.003250499	-1.544995845	5.85779E-05
Ifi47 15953	-1.399886492	0.101486161	-1.189879008	0.211981759
Memo1 76890	-1.400067583	0.025404259	-1.342245296	0.016114482
Epn2 13855	-1.400160256	0.026868099	-1.466271088	0.024698763
Ccdc68 381175	-1.400308529	0.212769544	1.141221796	0.328795646
Fes 14159	-1.400334461	0.051335208	-1.255172746	0.10271895
Trpm2 28240	-1.400468943	0.156365616	-1.891593714	0.028230363
9030617003Rik 217830	-1.400510987	0.001499539	-1.400510987	0.001499539
Fam122a 68034	-1.400887126	0.039361736	-1.400887126	0.039361736
Clip2 269713	-1.401230547	0.104806492	-1.011446674	0.46403691
Gpx6 75512	-1.401304222	0.333146906	1.52036734	0.280467625
Saa4 20211	-1.401395602	0.049233417	-1.251074693	0.096070989
Spata7 104871	-1.401434453	0.315381505	-1.401434453	0.315381505
Bco2 170752	-1.401594578	0.03058228	-1.534527963	0.003129076
Hck 15162	-1.401717193	0.089729336	-1.591665576	0.013647685
Frzb 20378	-1.402133561	0.268924107	1.023331014	0.482819656
Srbd1 78586	-1.402644168	0.157556522	-1.402644168	0.157556522
Nup43 69912	-1.402713733	0.18479868	-1.612141871	0.086431447
Cyb5r3 109754	-1.40278312	0.009951249	-1.40278312	0.009951249
Dusp12 80915	-1.402839273	0.064024259	-1.371849997	0.03014364
Cxcr3 12766	-1.4028895	0.298789489	1.190041347	0.384964438
Gvin1 74558	-1.403101033	0.267324374	-1.025776776	0.481932633
Pacs1 107975	-1.403143396	0.076197213	-1.562224772	0.017807812
Nt5e 23959	-1.403344388	0.092602344	-1.268725357	0.16654517
Cdc42ep3 260409	-1.403381438	0.173719881	-1.59328595	0.086403434
Rabgap1l 29809	-1.403415996	0.057130078	-1.321524022	0.10132577
Parp14 547253	-1.403474022	0.025002673	-1.599281644	0.003034164
4933403F05Rik 108654	-1.403555754	0.03234927	-1.256327483	0.050622205
Cd19 12478	-1.40360422	0.280111284	-2.071762477	0.043677989
Fgd3 30938	-1.403877997	0.380314069	1.264185714	0.40907038
Ophn1 94190	-1.403898225	0.066098939	-1.534755373	0.043946904
R3hdm1 226412	-1.403948107	0.132356612	-1.202330299	0.142205943
Cd97 26364	-1.404154892	0.034099183	-1.404154892	0.034099183

BC029214 227622	-1.404707792	0.150384308	-1.420022616	0.113223191
Clec11a 20256	-1.404743262	0.150899133	-1.959801993	0.014742001
Oas2 23962	-1.404809191	0.093631936	-1.619347537	0.043680835
Zmym2 76007	-1.405535725	0.121704985	-1.405535725	0.121704985
Tmc6 217353	-1.40566478	0.069332035	-1.226218686	0.138799428
Npepl1 228961	-1.405767187	0.000643752	-1.458382423	0.000530498
D6Ert527e 52372	-1.40616	0.375963643	1	#DIV/0!
Zfp788 67607	-1.406208007	0.27759175	-1.406208007	0.27759175
Sh3yl1 24057	-1.406427249	0.03927316	-1.239661095	0.031373244
Apobec1 11810	-1.406560556	0.057283137	-1.253023527	0.115501782
Tm6sf2 107770	-1.406671323	0.005383758	-1.406671323	0.005383758
0610007P08Rik 76251	-1.406855895	0.104903251	-1.235822548	0.196086947
Acot4 171282	-1.407165002	0.010809877	-1.528112661	0.003584439
Acrbp 54137	-1.407204667	0.01871488	-1.325859856	0.039679899
Gtse1 29870	-1.407346838	0.251479021	-1.653455991	0.15800477
Slc25a36 192287	-1.407837697	0.193752387	-1.21624931	0.321824738
Nodal 18119	-1.407848561	0.320727913	-2.699824713	0.141377162
Ing3 71777	-1.408281164	0.078292316	-1.629962263	0.03013198
2210009G21Rik 74243	-1.408450704	0.376110186	1	#DIV/0!
Ccbe1 320924	-1.40857499	0.198211437	-1.105299181	0.395067858
Hyls1 76832	-1.409122588	0.200107895	-1.675877995	0.071822305
Atp11a 50770	-1.409285541	0.108683266	-1.045522533	0.407104272
Myl4 17896	-1.409424705	0.216035884	-1.065315382	0.437142415
Stxbp5 207227	-1.409574731	0.310604314	-2.44590404	0.149033783
Cldn3 12739	-1.409848681	0.035976292	-1.558294525	0.002787465
Ptgis 19223	-1.410102794	0.197371742	1.143837416	0.281559745
A830010M20Rik 231570	-1.410350966	0.296325252	-2.704623563	0.095200291
Lactb 80907	-1.410617041	0.021552819	-1.267830555	0.022825139
Gpd2 14571	-1.410646816	0.042382876	-1.145666575	0.154838858
Itfg1 71927	-1.410663953	0.039146942	-1.317563624	0.024445473
2410127L17Rik 67383	-1.410908837	0.106011217	-1.550521042	0.051675711
Phf12 268448	-1.410931058	0.066579681	-1.475825654	0.030743921
Prlr 19116	-1.411181855	0.023890403	-1.536911231	0.011494546
1700018L02Rik 67329	-1.411649739	0.154815327	-1.371474752	0.117680419
Dhrs7 66375	-1.411787062	0.002498953	-1.276217807	0.006941464
Acsf2 264895	-1.411919407	0.003855852	-1.446699544	0.000816466
Dnajc28 246738	-1.412209803	0.075966111	-1.13700508	0.214017071
Acss3 380660	-1.412600775	0.293832544	-1.559277338	0.195837
Slc17a3 105355	-1.412801345	0.008063261	-1.30685468	0.015582352
Gga3 260302	-1.412839786	0.128002722	-1.863363476	0.018721771
Eccsr 68545	-1.412996723	0.089892027	-1.230776394	0.176860363
Cby1 73739	-1.413106992	0.054634283	-1.388585698	0.020951934
Ankrd49 56503	-1.413504215	0.154946117	-1.364895688	0.096917227
Hirip3 233876	-1.413521382	0.074846854	-1.588289568	0.040524447
Anpep 16790	-1.41362881	3.34942E-05	-1.45062851	1.20536E-05
Mmp15 17388	-1.41367882	0.001868105	-1.41367882	0.001868105
Pdxk 216134	-1.413732439	0.003848413	-1.572966343	9.18979E-05
Kbtbd11 74901	-1.413814902	0.272771105	-1.80018926	0.145920046
Brd4 57261	-1.413960717	0.159794969	-1.210884738	0.205818038
Chrnbl 11443	-1.413969466	0.287928252	-2.420672074	0.114888232
Pygo1 72135	-1.414025049	0.30814708	-2.453626263	0.146761448
lpo7 233726	-1.414041046	0.186005104	-1.414041046	0.186005104
Ltbp1 268977	-1.414339315	0.28138026	-3.170216909	0.03206401

Afap1l2 226250	-1.41436273	0.275988159	-1.035522573	0.477609645
Cyp2c54 404195	-1.414389628	0.128593206	1.00537599	0.484911039
Alg13 67574	-1.414714235	0.163560971	-1.414714235	0.163560971
2610528J11Rik 66451	-1.414977942	0.005571439	-1.428686755	0.001966722
lpo8 320727	-1.415417977	0.100369617	-1.047482485	0.390211865
Fam171a2 217219	-1.415471234	0.121527105	-1.031229894	0.441747739
Ccdc159 67119	-1.415483367	0.101771049	-1.064174548	0.372158673
Hars2 70791	-1.415603876	0.060912347	-1.43334227	0.035001552
Phf6 70998	-1.415915493	0.049332544	-1.135138399	0.120333184
Sdccag8 76816	-1.416189228	0.115175905	-1.52767969	0.038681624
Pclo 26875	-1.416291337	0.356657582	-2.76078	0.173296754
Dfna5 54722	-1.416317681	0.074050663	-1.269946816	0.149604302
Cdc25b 12531	-1.41646556	0.176859855	-1.693589215	0.043408505
Arhgef40 268739	-1.416593693	0.03231154	-1.458104334	0.004855699
Tiam2 24001	-1.417031251	0.19850059	-2.198513623	0.025170376
Zfp942 73233	-1.417194586	0.239235462	-1.187512232	0.356355769
Fam131a 78408	-1.41727279	0.225856265	-2.498591419	0.016722945
Rhoj 80837	-1.417533676	0.07985509	-1.204064809	0.157083228
Esrp2 77411	-1.417944438	0.030623474	-1.417944438	0.030623474
D14Ert668e 219132	-1.418120739	0.087328045	-1.217517434	0.180065862
Ugt2b34 100727	-1.418268508	0.059664463	-1.558092349	0.037643108
Snapin 20615	-1.418300856	0.094047623	-1.589327276	0.027426518
Gnpnat1 54342	-1.418500646	0.009874293	-1.418500646	0.009874293
St6gal1 20440	-1.418521845	0.007538767	-1.418521845	0.007538767
Tenc1 209039	-1.418583842	0.008293733	-1.418583842	0.008293733
Gsto2 68214	-1.418732965	0.284414672	-1.418732965	0.284414672
Mir135a-1 387153	-1.419459524	0.146733581	-1.184110487	0.275247336
Ylpm1 56531	-1.419511097	0.162054554	-1.047050378	0.396716938
Socs6 54607	-1.419585041	0.078706044	-1.626468011	0.014810649
Ankrd23 78321	-1.419830056	0.234351954	-2.063826636	0.091888324
Slc26a1 231583	-1.420024539	0.052049001	-1.132222473	0.198536506
Tia1 21841	-1.420109931	0.123824387	-1.149744272	0.267251144
Depdc5 277854	-1.420328972	0.058568243	-1.217969747	0.116973552
Ncor2 20602	-1.420761215	0.042753081	-1.453715295	0.016468355
Car8 12319	-1.420802686	0.00965154	-1.366314876	0.021171535
Tomm40 641376	-1.421160482	0.00873611	-1.506951109	0.005761983
Zfp64 22722	-1.421661414	0.012029204	-1.381401471	0.025643021
Fnip1 216742	-1.422132145	0.231876193	-1.220076656	0.335571855
Plcl1 227120	-1.422617218	0.327887737	1.527583413	0.276310115
Tbc1d10c 108995	-1.422715398	0.277198657	-1.231308931	0.296562833
Ptpra 19262	-1.422809921	0.035616182	-1.14106711	0.075137911
Meg3 17263	-1.422911612	0.258409597	1.04937929	0.460618226
Zfp229 381067	-1.423168575	0.229815127	-1.423168575	0.229815127
Mbd6 110962	-1.42344178	0.061624965	-1.13206525	0.198890229
Zfp579 68490	-1.423688741	0.008864064	-1.423688741	0.008864064
Sfpi1 20375	-1.423764074	0.025596093	-1.291613917	0.04455389
Pank3 211347	-1.42410865	0.145604673	-1.084851618	0.333451451
Spn 20737	-1.424365949	0.169305655	-1.424365949	0.169305655
Mllt10 17354	-1.424656684	0.150460793	-1.664873945	0.094181156
Inhbb 16324	-1.424696719	0.211669317	-1.512123214	0.14609309
Tbce 70430	-1.424753242	0.104739075	-1.549560409	0.060902093
Tmem173 72512	-1.424851982	0.192378275	-2.0373991	0.049953457
Frmd4a 209630	-1.424961015	0.104482816	-1.48156468	0.031634099

Jmjd1c 108829	-1.425125432	0.191959107	-1.084263209	0.408256126
Cc2d2a 231214	-1.425136202	0.15692297	-2.059627633	0.007487411
Abhd2 54608	-1.425422497	0.223829466	-1.17300254	0.322473431
Glt8d1 76485	-1.425573857	0.135022333	-1.425573857	0.135022333
Srp54c 100101806	-1.42558307	0.164639066	-1.191182978	0.292467213
Cpne1 266692	-1.425583461	0.132024801	-1.425583461	0.132024801
Angel1 68737	-1.425679882	0.071166646	-1.157908555	0.232516559
Nubpl 76826	-1.425685452	0.04027966	-1.790737659	0.000776513
1110032A03Rik 68721	-1.425798775	0.006397287	-1.355342513	0.013518839
Trem14 224840	-1.426032852	0.192627574	-1.20016334	0.335077934
Eif4e3 66892	-1.426307757	0.081195062	-1.23829695	0.166862079
Tmem165 21982	-1.42640871	0.154485948	1.028910789	0.452743269
Smarcc2 68094	-1.426430091	0.019479208	-1.416119635	0.005151076
Tnrc6b 213988	-1.426613682	0.220190993	-1.121471088	0.340053522
Nacc2 67991	-1.426634498	0.068137009	-1.401498044	0.037987534
Plekhm3 241075	-1.426983731	0.287841483	1.117819616	0.428080422
Dpp8 74388	-1.426996464	0.145314904	-1.1215145	0.322437951
Prepl 213760	-1.427051362	0.020543193	-1.709882238	0.000744308
Slc35a5 74102	-1.427095133	0.151690778	-1.842430864	0.050320354
Fam82b 66302	-1.427140498	0.032681686	-1.563866856	0.004628997
Slc16a12 240638	-1.427375613	0.133072826	-1.099796861	0.288596126
Kank2 235041	-1.427406508	0.022846274	-1.297794196	0.038838688
Gatad2b 229542	-1.427740646	0.321574037	-1.724175539	0.251994748
Inpp5e 64436	-1.42791305	0.108000739	-1.42791305	0.108000739
Ceacam1 26365	-1.428038119	0.081338069	-1.447033455	0.05611244
Letm1 56384	-1.428525892	0.008441055	-1.428525892	0.008441055
Ptafr 19204	-1.428571429	0.37128647	1	#DIV/0!
Gm13718 100270744	-1.428571429	0.37128647	1	#DIV/0!
Ptprt 19281	-1.428571429	0.37128647	1	#DIV/0!
Rab27b 80718	-1.428739018	0.35290708	-2.8202	0.173296754
Prr14 233895	-1.429098272	0.00263999	-1.429098272	0.00263999
Asap3 230837	-1.429129028	0.06895035	-1.573594391	0.022681265
Gm12824 666048	-1.429236008	0.295131839	-3.010586893	0.023511985
Gm16039 100036521	-1.42937124	0.062458585	-1.828414896	0.005296941
Tatdn3 68972	-1.429525125	0.253048038	-2.224778781	0.029464894
Gm10069 791299	-1.430019884	0.020865976	-1.442239707	0.003000908
Naip5 17951	-1.430040294	0.209821769	-1.096069766	0.41360369
Slc25a10 27376	-1.430064353	0.000897871	-1.484733215	0.000819037
Arhgap39 223666	-1.43017911	0.100458316	-1.462476779	0.026017378
Smad6 17130	-1.43035428	0.064005722	-1.743780253	0.008084606
Ftsjd2 74157	-1.430400314	0.043262408	-1.306731758	0.088797628
Chac1 69065	-1.430776931	0.264342869	-1.236319846	0.318474282
F8a 14070	-1.43082557	0.051208636	-1.547186312	0.021209963
Adnp 11538	-1.430953605	0.222669633	-1.430953605	0.222669633
Nckap1 105855	-1.431470435	0.129230395	-1.236306557	0.232018151
Batf2 74481	-1.431884415	0.116205616	-2.00077619	0.011510981
Mgst3 66447	-1.432291424	0.160981507	-1.972719678	0.03528883
2310021P13Rik 268721	-1.432445271	0.002107989	-1.579474223	0.000142126
Acat3 224530	-1.432633631	0.00237515	-1.517243923	0.001209515
Klhl18 270201	-1.432877598	0.031568385	-1.561407948	0.018322919
4833418N02Rik 74597	-1.43293744	0.193115615	-1.43293744	0.193115615
Plce1 74055	-1.433401935	0.158674354	-1.433401935	0.158674354
Rapgef5 217944	-1.43353	0.33978158	-4.56078	0.070574133

Klhdc9 68874	-1.433694028	0.10441395	-1.712016054	0.042578971
Wasl 73178	-1.433696297	0.1678347	-1.039843017	0.418214104
Bcl6b 12029	-1.433870023	0.217401948	-2.355590157	0.034728497
Prrc2c 226562	-1.433922684	0.200283181	1.000596096	0.499112145
Tmem8 60455	-1.433962247	0.007204721	-1.433962247	0.007204721
Atxn1 20238	-1.434084123	0.25565431	-1.434084123	0.25565431
Svil 225115	-1.434192839	0.128494819	-1.378872437	0.094839796
1700008J07Rik 629159	-1.434499281	0.056783684	-1.531676405	0.033507039
Nnt 18115	-1.434963029	0.07655749	-1.296083202	0.141876348
Samd9l 209086	-1.43502139	0.129558858	-1.200385188	0.248798071
Cssp1 211660	-1.435266156	0.193697118	-1.042325139	0.44684692
Pilra 231805	-1.435296594	0.150432081	-1.000724093	0.498626105
Zfpm1 22761	-1.435467476	0.014022953	-1.306558597	0.027341203
Gtf2h2 23894	-1.435749027	0.150103042	-1.400378688	0.077321888
Ggta1 14594	-1.436589905	0.229300142	-1.204745698	0.344068972
Bclaf1 72567	-1.436595338	0.041989044	-1.436595338	0.041989044
2610044O15Rik 72139	-1.436771961	0.131408998	-2.069521973	0.001229066
Afmid 71562	-1.436836328	0.002888371	-1.514338797	0.000526542
Pknox2 208076	-1.437100977	0.274996054	1.012805512	0.49185709
Dlg4 13385	-1.437366772	0.219114039	-1.768716624	0.082271489
Tpp2 22019	-1.437374743	0.065448487	-1.117217406	0.251977695
Cnpy3 72029	-1.437550763	0.031845571	-1.278474572	0.049477538
Adamts5 23794	-1.437606185	0.15337067	-1.209002447	0.293637875
1700052K11Rik 73431	-1.437886038	0.151955185	-1.439268133	0.037800324
Nrxn1 18189	-1.437963687	0.088563516	-1.219578275	0.182330686
Fam110c 104943	-1.438044073	0.302112836	-2.713213277	0.093707629
E130303B06Rik 102124	-1.438264928	0.205143898	-1.438264928	0.205143898
Med14 26896	-1.438311834	0.055906661	-1.796364739	0.003022855
A930018P22Rik 68243	-1.438410057	0.258104673	-1.529102287	0.192900919
Papss2 23972	-1.438470618	0.187190108	-1.364395776	0.178534543
Zranb2 53861	-1.439472292	0.14690154	1.001705649	0.496534216
Xdh 22436	-1.43958225	0.006665273	-1.43958225	0.006665273
4933421O10Rik 71073	-1.439754416	0.238233041	-1.999076555	0.029512668
Ankrd1 107765	-1.440114286	0.368944409	1	#DIV/0!
Ndrg4 234593	-1.440114286	0.368944409	1	#DIV/0!
Nfkb1 18033	-1.440159594	0.04175386	-1.748174371	0.002287905
Lum 17022	-1.440195785	0.105733096	-1.94256971	0.006463193
Qrs1 76563	-1.440338303	0.157025025	-1.635736253	0.117501577
Gm4532 100043580	-1.440952732	0.295921904	-1.440952732	0.295921904
Dusp7 235584	-1.441292973	0.096967517	-1.717035527	0.038717566
Cep350 74081	-1.441375078	0.112705135	-1.16935236	0.238713921
Card10 105844	-1.442082823	0.008669328	-1.473710305	0.00077232
Cenpq 83815	-1.442125418	0.273118558	-1.151062214	0.418507868
Zscan21 22697	-1.442159609	0.075594472	-1.934268631	0.003592951
Polh 80905	-1.442373372	0.198265328	-1.335404223	0.153686989
D330041H03Rik 654822	-1.442927896	0.090425467	-1.346051559	0.120361229
lsg15 100038882	-1.443049456	0.112194827	-1.237474831	0.226156539
Atg14 100504663	-1.44327192	0.051782966	-1.44327192	0.051782966
Dtwd1 69185	-1.44371834	0.224056428	-1.987550202	0.10942287
2610002M06Rik 67028	-1.443858199	0.066450953	-1.301079881	0.127102899
Hrg 94175	-1.44386135	0.017875484	-1.580211678	0.000997944
Otud3 73162	-1.444217656	0.065771805	-1.444217656	0.065771805
41153 54204	-1.444745095	0.08737516	-1.080274445	0.333757392

Slc6a13 14412	-1.445219272	0.001539039	-1.432590358	0.000580814
Fam149b 105428	-1.445219309	0.002008277	-1.344325885	0.002957975
Acad8 66948	-1.445266257	0.002743567	-1.445266257	0.002743567
Rab5 67286	-1.44562565	0.181390292	-2.084650138	0.042919347
Lmnb2 16907	-1.445638273	0.015518036	-1.206059058	0.035863733
Bcl6 12053	-1.445665752	0.228533321	-1.000862447	0.499173167
Tbc1d9b 76795	-1.446317836	0.00224171	-1.502297333	0.001196548
Limd2 67803	-1.446484155	0.025144624	-1.322130484	0.048693433
Acy3 71670	-1.446490956	0.003928957	-1.344399185	0.003169794
Arid3a 13496	-1.446698534	0.154336409	-1.449293921	0.05132666
Rcn2 26611	-1.44690301	0.165891244	-1.350918607	0.182424991
Card6 239319	-1.447670088	0.043039876	-1.154706439	0.157452714
Tnfaip3 21929	-1.447793249	0.095802329	-1.426127191	0.077460866
Gm4788 214403	-1.448026671	0.124033956	-1.782320354	0.049906014
Otc 18416	-1.44829233	0.000216898	-1.38218248	0.000382114
Thtpa 105663	-1.448354057	0.000355908	-1.435164813	0.000025943
Herc2 15204	-1.448483846	0.073240502	-1.448483846	0.073240502
Erb2 13866	-1.44879728	0.185564848	-2.571790198	0.003788873
Serpina12 68054	-1.449652661	0.196103798	-1.902643787	0.096852251
Sipa1l2 244668	-1.449886089	0.202379935	-1.43872661	0.228970451
Zbtb48 100090	-1.449917269	0.020959843	-1.567202218	0.004270266
4632411B12Rik 226976	-1.450070409	0.006257024	-1.528277058	0.004914297
Chst12 59031	-1.450153009	0.166188199	-1.401118061	0.141003461
Zfp940 233057	-1.450317158	0.259570295	-1.450317158	0.259570295
Zbtb45 232879	-1.450611916	0.045753385	-1.588161541	0.012565331
Myo7a 17921	-1.450648088	0.071675326	-1.266973242	0.146581074
Traf7 224619	-1.450657283	0.022391662	-1.316980626	0.038890241
Zswim6 67263	-1.450718447	0.22498762	-1.066071587	0.392916051
Adam9 11502	-1.451237307	0.165441119	-1.128068947	0.354575388
Porcn 53627	-1.451716888	0.032809502	-1.366590074	0.038706097
Rere 68703	-1.451962512	0.162521852	1.015465975	0.466818736
Chchd6 66098	-1.451984092	0.026720656	-1.363057088	0.055944953
Tgm1 21816	-1.452228062	0.039761528	-1.266617979	0.07890805
Fryl 72313	-1.452439276	0.081674063	-1.222833287	0.163182793
Slc22a27 171405	-1.45254537	0.158401415	-1.282248059	0.167187685
Pira2 18725	-1.452587939	0.2160171	-1.452587939	0.2160171
Tmem170 66817	-1.452660466	0.181219587	-1.141008438	0.364777232
Cables1 63955	-1.452882931	0.208022344	-2.066353988	0.061560444
Epor 13857	-1.453057542	0.114129757	-1.79155886	0.041640091
Asb7 117589	-1.453437974	0.18125177	-1.420528884	0.116920138
Fdft1 14137	-1.454349738	0.081446632	-1.626464326	0.053203518
Tiparp 99929	-1.4544265	0.127158018	-1.154123812	0.27615525
Kif1b 16561	-1.454455719	0.21914645	-1.107657161	0.354787948
Rdh10 98711	-1.45480647	0.052358809	-1.418951672	0.042110308
Akr1b10 67861	-1.455407743	0.23714079	-1.455407743	0.23714079
Map3k13 71751	-1.455572987	0.303955644	1.02207559	0.488357997
Stard3 59045	-1.455810174	0.004423458	-1.48695465	0.005310995
Pinx1 72400	-1.456156729	0.100498243	-1.347084562	0.160572861
Al464131 329828	-1.456197715	0.000354269	-1.517761033	5.56774E-05
Onecut1 15379	-1.456309479	0.199554082	-1.305695676	0.216284419
Lass4 67260	-1.456340274	0.166276885	-1.489023237	0.154820476
Coro7 78885	-1.456403667	0.00143299	-1.530916086	0.000225746
Npcd 504193	-1.456781695	0.212782511	-1.089391799	0.423871745

Mipep 70478	-1.457238227	0.013024255	-1.457238227	0.013024255
Ranbp10 74334	-1.457291237	0.02806625	-1.288577731	0.035860758
Zfyve16 218441	-1.457831262	0.177892799	-1.618724076	0.151968462
B3galt1 26877	-1.458052181	0.119322267	-1.214232911	0.247359367
8430429K09Rik 71523	-1.458476633	0.220877809	-1.102054753	0.420646142
Anks4b 72074	-1.458510839	0.009353491	-1.721215273	0.000200864
Hlcs 110948	-1.458678341	0.100373366	-1.771235935	0.037144593
5730494M16Rik 66648	-1.458811607	0.039566406	-1.134362797	0.088261593
Stx11 74732	-1.45882769	0.31429881	-1.72578057	0.278974436
Pms1 227099	-1.458864122	0.253461464	-1.00889755	0.493651787
Stra13 20892	-1.459123974	0.037410448	-1.340915904	0.004354522
Ttlf5 320244	-1.459391788	0.012345278	-1.503594787	0.000856636
Abl2 11352	-1.459529232	0.087389052	-1.723881169	0.03716573
Taco1 70207	-1.459625924	0.002204961	-1.633155076	0.000189098
Gpr133 243277	-1.459629636	0.259124954	-3.822654545	0.005502342
Nacad 192950	-1.459718661	0.293278866	-2.532914141	0.141518419
Acat2 110460	-1.460919167	0.028250156	-1.460919167	0.028250156
Cyp46a1 13116	-1.46175316	0.037700166	-1.30246994	0.071746003
Zcchc6 214290	-1.461761982	0.104833009	-1.220448093	0.219017652
Prim2 19076	-1.461975458	0.145347616	-1.802663406	0.012520431
Per2 18627	-1.462139737	0.167824301	-1.308257241	0.249080515
Clic5 224796	-1.462198652	0.325661435	1.778618873	0.184006478
A430107O13Rik 214642	-1.462227274	0.253060209	1.109126815	0.407007099
Gyltl1b 228366	-1.462721788	0.211169425	-1.736549835	0.099493143
Gm13375 433408	-1.463042255	0.06766784	-1.463042255	0.06766784
Ntn4 57764	-1.463084175	0.2009768	-2.005515889	0.089251163
1700106N22Rik 73582	-1.46335636	0.185482229	-1.539247025	0.097576844
1600012H06Rik 67912	-1.463452866	0.008193733	-1.344420529	0.009137575
Slc35b4 58246	-1.463512724	0.006143966	-1.393133594	0.004040276
Aqp3 11828	-1.464023683	0.356831873	1.264185714	0.40907038
Odf3b 70113	-1.464068601	0.005975765	-1.516139184	0.000243142
Map4k3 225028	-1.464090262	0.100784841	-1.297421725	0.193376277
Kifc3 16582	-1.464330134	0.015614575	-1.735026644	0.000526762
Cyp2d37-ps 627860	-1.464619024	0.022621782	-1.553333716	0.011450394
Ces1f 234564	-1.464710522	0.022993932	-1.466663316	0.002710341
Polk 27015	-1.465002439	0.202625066	-2.71922527	0.005834538
Tssc1 380752	-1.465195766	0.051058323	-1.465195766	0.051058323
lqsec1 232227	-1.465263481	0.025049502	-1.388055254	0.004657442
Slc9a9 331004	-1.46530725	0.155582201	-1.721040552	0.072867354
Pcnxl3 104401	-1.465662292	0.002371993	-1.562114507	0.000107965
Zeb2 24136	-1.465756	0.184939337	-1.654448888	0.152770469
Ttc19 72795	-1.466297244	0.003805498	-1.391358166	0.008989329
5830418K08Rik 319675	-1.466339652	0.095754369	-1.466339652	0.095754369
Klhl15 236904	-1.46642219	0.270471222	1.048505508	0.469355521
Dpy19l3 233115	-1.466674886	0.159710116	-1.750989158	0.039450828
Art3 109979	-1.466734238	0.26315125	-2.342264667	0.12014837
Ccdc84 382073	-1.466804141	0.02375946	-1.786577206	0.000672554
2310067B10Rik 71947	-1.466876921	0.015241026	-1.251067579	0.052013647
Slamf6 30925	-1.467018339	0.281672	-1.467018339	0.281672
Atp10d 231287	-1.467046419	0.142613613	-1.232010951	0.276412718
Shq1 72171	-1.467486765	0.071138529	-1.298569027	0.144798725
Ada 11486	-1.467979167	0.024643797	-1.378829386	0.049985481
Sult2a2 100043194	-1.468064937	0.120084449	-1.542883851	0.091169911

Htt 15194	-1.468091425	0.027422282	-1.439289734	0.003718956
Cyp2d26 76279	-1.468944096	0.018656262	-1.686938189	0.001485459
Ppp6r2 71474	-1.46991178	0.005789731	-1.603227482	0.001764872
Glmn 170823	-1.469923258	0.222558473	-2.707837662	0.026031116
Tmtc4 70551	-1.469938002	0.287936823	-1.469938002	0.287936823
Numb 18222	-1.470523844	0.169972799	-1.156455507	0.347316326
Azin1 54375	-1.471245312	0.138020495	-1.510138105	0.085835296
Trim21 20821	-1.471398993	0.122873071	-1.225487429	0.25175912
Ralbp1 19765	-1.471668753	0.036813468	-1.723171326	0.007345556
Aqp4 11829	-1.471984283	0.29538682	-2.170942675	0.173435293
Rnf123 84585	-1.472081369	0.001473667	-1.338806035	0.000421372
Slc38a3 76257	-1.472268026	0.000519579	-1.427117294	0.001456888
Phka2 110094	-1.472378766	0.008929548	-1.508265598	0.000298625
Sdpr 20324	-1.472388896	0.03758829	-1.37819866	0.000240519
Heca 380629	-1.472654899	0.251976168	-1.284468772	0.312401878
Grik5 14809	-1.472791787	0.003419432	-1.332682706	0.00270429
Abca1 11303	-1.472834969	0.05648616	-1.35478709	0.022505062
H2-T24 15042	-1.472878227	0.246889298	-1.037245264	0.474057162
Ccdc43 52715	-1.47315803	0.106136284	-1.308573748	0.184372527
Cxcl12 20315	-1.473161508	0.029017723	-1.473161508	0.029017723
Acp6 66659	-1.473283456	0.000705058	-1.371292614	0.000670214
Tubg2 103768	-1.473698636	0.307694868	-1.473698636	0.307694868
Recql 19691	-1.474117261	0.216533265	-1.640816781	0.136128918
Rab11fip4 268451	-1.474215435	0.218307709	1.052676819	0.432842182
Wnk1 232341	-1.474328901	0.096013152	-1.332732589	0.063320271
Zbtb12 193736	-1.474451511	0.073281605	-1.474451511	0.073281605
Synj2 20975	-1.474748755	0.092840159	-1.474748755	0.092840159
Dmpk 13400	-1.475538908	0.005688678	-1.711187398	0.000233829
Fam125b 72543	-1.476044049	0.171810232	-1.662695703	0.044910888
Grid1 14803	-1.476059925	0.119469193	-1.476059925	0.119469193
Gstm2 14863	-1.476087137	0.052605287	-1.350590199	0.021303141
Arhgap21 71435	-1.476172754	0.127622251	-1.018486348	0.456899951
Cnpy4 66455	-1.476269268	0.117102037	-1.794883861	0.054135446
Smyd4 319822	-1.476955147	0.026664031	-1.476955147	0.026664031
BC068281 238037	-1.47815767	0.018270029	-1.578563292	0.006762852
2610306M01Rik 67170	-1.478337524	0.106937274	-1.478337524	0.106937274
Gbp9 236573	-1.478471734	0.153772574	-1.240380228	0.267347524
Thsd4 207596	-1.478611787	0.188903348	-1.168695951	0.361065484
Slfn1 20555	-1.478770805	0.190930906	-2.687240445	0.006001337
Tjp1 21872	-1.478786278	0.200983086	-1.154885254	0.333039919
Ppcdc 66812	-1.478802537	0.012586383	-1.401355736	0.027526211
Naa38 76522	-1.47919432	0.188400201	-1.769807268	0.069477116
Fhdc1 229474	-1.479478122	0.250216199	1.014209271	0.489677372
Sec16a 227648	-1.479495151	0.024468799	-1.364774341	0.051240227
Yeats2 208146	-1.479495605	0.126304421	-1.757580452	0.072693763
Zfp318 57908	-1.479553577	0.083974176	-1.804885345	0.026309126
Frs3 107971	-1.479710277	0.099136148	-1.478912103	0.038983274
Rbm12 75710	-1.479748573	0.241869957	1.103090603	0.400756507
Sec14l2 67815	-1.479966582	0.002121778	-1.375641514	0.000935836
Rbbp9 26450	-1.480126635	0.045040901	-1.297004954	0.092352212
Dalrd3 67789	-1.480258848	0.000365913	-1.480258848	0.000365913
Nckap1 50884	-1.480413395	0.214149137	-1.107890595	0.416031159
Klhdc8a 213417	-1.480725605	0.091430347	-1.336510164	0.158333283

3110057012Rik 269423	-1.480844637	0.121362884	-1.360414587	0.185586248
Atp6v0a2 21871	-1.481272724	0.156706988	-1.383552166	0.148272044
Ust 338362	-1.48129156	0.270775399	-3.284075758	0.055632218
Foxa1 15375	-1.481332116	0.126703371	-2.096283027	0.013971042
Plcb3 18797	-1.481478871	0.001267219	-1.306944102	0.000694581
Dhdh 71755	-1.481960355	0.107974843	-1.463900777	0.032744862
Pet112l 229487	-1.482412146	0.006429373	-1.356087794	0.004620046
Sec14l4 103655	-1.482555457	0.003450617	-1.409610247	0.007129477
Cxcl10 15945	-1.482769011	0.215876034	-1.658721777	0.064867621
Slco3a1 108116	-1.482875621	0.037492958	-1.315680429	0.077334148
Trappc10 216131	-1.483748626	0.048921064	-1.331756774	0.100037651
Asah2 54447	-1.483823637	0.11985984	-1.873122394	0.04378966
Atp13a3 224088	-1.484693592	0.131542272	-1.052082502	0.405083768
Spg11 214585	-1.485168761	0.106309842	-1.691011461	0.072229072
Rnf43 207742	-1.485191284	0.047448308	-1.615586645	0.018764037
Strn 268980	-1.485681471	0.300017266	1.289727604	0.359609713
Macrod1 107227	-1.485996662	0.019867334	-1.851471571	0.00010547
Zkscan1 74570	-1.486312984	0.047812861	-1.486312984	0.047812861
Tnfrsf19 29820	-1.486674084	0.079983701	-1.281185064	0.164155923
Xylb 102448	-1.486843642	0.000970242	-1.48938423	0.000132647
Tmem25 71687	-1.486846333	0.057928967	-1.301081012	0.083582828
Hrsp12 15473	-1.487071228	0.00093288	-1.487071228	0.00093288
Zfp1 22640	-1.48724769	0.009934578	-1.508692908	0.00293963
Dnahc5 110082	-1.487269513	0.331084142	-5.916333333	0.093233821
Rora 19883	-1.487760538	0.2767688	-1.036536884	0.477174813
2310044G17Rik 217732	-1.487763119	0.029471283	-1.207305157	0.105620549
Actr3b 242894	-1.487944268	0.307832802	-1.29416451	0.382135102
Qtrtd1 106248	-1.488135666	0.246705379	1.056446913	0.45568495
A430084P05Rik 327957	-1.4883822	0.20201189	-2.02464181	0.100561805
Ghr 14600	-1.48875941	0.016153418	-1.488375312	0.00043116
Hspb6 243912	-1.488852311	0.007409224	-1.724098884	0.000485027
Rnf111 93836	-1.48923041	0.187502816	-1.444516733	0.191782791
2310009B15Rik 69549	-1.489502684	0.105330594	-1.489502684	0.105330594
Gbas 14467	-1.489646978	0.021615464	-1.817966783	0.000600345
9930021D14Rik 319259	-1.4899	0.170446566	1	#DIV/0!
Pip4k2b 108083	-1.490129689	0.009184539	-1.478757148	0.001029317
Col12a1 12816	-1.490684462	0.255553357	-1.490684462	0.255553357
Ccl4 20303	-1.491799871	0.310527873	-1.288457844	0.384067592
Itgam 16409	-1.491867768	0.128262088	-2.201483243	0.001476175
C4b 12268	-1.491996836	0.002626049	-1.579457601	0.000705507
Echdc3 67856	-1.492159849	0.011161289	-1.758971308	0.000136468
Ccny1 227210	-1.492442444	0.095029546	-1.569165089	0.050522227
Gltscr1 243842	-1.492479016	0.140779083	-1.434829087	0.148049679
Paqr9 75552	-1.492858769	0.032950463	-1.323561481	0.067970841
Zfp955b 100043468	-1.492925105	0.090864662	-1.447061648	0.13259446
Cyp2u1 71519	-1.49336458	0.048463112	-1.825927933	0.006582828
Zfp341 228807	-1.493466407	0.038468802	-1.695368647	0.016465867
D630037F22Rik 544696	-1.493516348	0.127643889	-1.277861764	0.243924402
D3Ertd751e 73852	-1.493540587	0.084337512	-1.799421629	0.032594958
Pbld2 67307	-1.493708237	0.004489929	-1.705321746	8.49155E-05
Laptm4b 114128	-1.493845885	0.01582581	-1.607663945	0.00395722
Ces2g 72361	-1.493901673	0.003166108	-1.647229375	0.000449878
Ankrd2 56642	-1.494155052	0.22024145	-1.494155052	0.22024145

Ptcd1 71799	-1.494598587	0.000655038	-1.562177439	0.000149886
Atxn7l1 380753	-1.495051263	0.047666674	-1.171650097	0.120857842
Nlrp1a 195046	-1.495197775	0.185677045	-1.186119908	0.352075572
Usp39 28035	-1.495235738	0.00761252	-1.601754626	0.001277926
Ano8 382014	-1.495802614	0.050902947	-1.358881265	0.098210184
Sctr 319229	-1.495904722	0.27732681	-2.575533281	0.131921431
C630043F03Rik 68285	-1.496052595	0.034004855	-1.341497438	0.070450263
Pls3 102866	-1.496138849	0.063028492	-1.262225485	0.114077317
Ednrb 13618	-1.496638993	0.154222065	-1.598382651	0.043135543
Glb1l 74577	-1.49765386	0.114330459	-1.020594564	0.449986599
Fzd4 14366	-1.497856099	0.116581304	-1.497856099	0.116581304
Mup17 100039206	-1.497870127	0.17797592	-1.497870127	0.17797592
Stom 13830	-1.498005728	0.02386786	-1.498005728	0.02386786
Fmr1 14265	-1.498087327	0.231493937	-1.164200793	0.368559082
Mettl21d 207965	-1.498136764	0.081150829	-1.498136764	0.081150829
Tipin 66131	-1.498335093	0.116879937	-1.395737228	0.185156043
Abcd2 26874	-1.498805481	0.02540013	-1.473982162	0.014367842
Muted 17828	-1.498846175	0.036042742	-1.498846175	0.036042742
Slc2a9 117591	-1.499602531	0.014083564	-1.499602531	0.014083564
Purb 19291	-1.499885699	0.14436561	-1.499885699	0.14436561
Asph 65973	-1.500194132	0.053553301	-1.32134992	0.108309796
Abat 268860	-1.500454026	0.117310147	-1.05161417	0.409955809
Alg6 320438	-1.501084545	0.222711956	-1.257006204	0.327331301
Dcdc2a 195208	-1.501338159	0.134333505	-1.214377311	0.278311413
Sgcb 24051	-1.501567139	0.191299579	-2.64465281	0.01343738
Armc7 276905	-1.502012397	0.024614331	-1.502012397	0.024614331
Bmi1 12151	-1.502162921	0.151410065	-1.145800653	0.332392828
Dars2 226539	-1.502668867	0.051845038	-1.634413056	0.007550642
Bex1 19716	-1.502869103	0.194106566	-1.502869103	0.194106566
Dennd1a 227801	-1.503454357	0.001648407	-1.69902448	2.57662E-05
Il10ra 16154	-1.503827978	0.11531653	-1.969232712	0.031628277
Trpv2 22368	-1.504237893	0.150134248	-1.666499341	0.060709199
Rap2b 74012	-1.504243467	0.071909583	-1.437509614	0.072077624
Zfp862 58894	-1.504567657	0.137137271	-1.523761927	0.109981107
Extl2 58193	-1.504776557	0.102285621	-1.868113815	0.038579031
Folr2 14276	-1.506401345	0.008472258	-1.280857165	0.020966654
Hdac11 232232	-1.506552524	0.002995598	-1.574204353	0.000205238
Ifi204 15951	-1.506939074	0.080931036	-1.417785605	0.022400437
Xrra1 446101	-1.507369804	0.311946822	-7.38365	0.04272972
Igln5 210094	-1.507484968	0.109380968	-1.214251917	0.230911359
Fam116b 69440	-1.507533145	0.000739806	-1.507533145	0.000739806
Tube1 71924	-1.508333333	0.349254813	-2.8	0.173296754
Lsp1 16985	-1.508471008	0.121705329	-1.791024904	0.017598794
Serpinb1a 66222	-1.508474339	0.019223356	-1.610125566	0.008231104
Siglecg 243958	-1.508635178	0.253880384	-1.737539682	0.158096304
Dhfr 13361	-1.508660926	0.013656682	-1.508660926	0.013656682
Akr1c19 432720	-1.508695853	0.031276637	-1.755321986	0.000811767
Rnd2 11858	-1.508797324	0.042796524	-1.508797324	0.042796524
Epb4.1l4b 54357	-1.508811348	0.041715667	-1.51407453	0.031371756
P2ry4 57385	-1.50885227	0.215300604	1.227376656	0.239691143
Nphp3 74025	-1.509040762	0.134205862	-1.196308214	0.285174772
Cstf2 108062	-1.509091912	0.035243591	-1.75247578	4.10506E-05
Gpc3 14734	-1.50951857	0.273002689	-1.50951857	0.273002689

Mrpl3 94062	-1.510092432	0.00547365	-1.392538714	0.011324991
Bcar1 12927	-1.510105512	0.006866557	-1.491521531	0.00025248
Pcmttd2 245867	-1.510430901	0.175229159	-1.483691849	0.176804164
Foxn3 71375	-1.510487405	0.152226665	-1.206984257	0.308242133
Pde12 211948	-1.510539164	0.051525854	-2.006570878	0.002558986
Lipt1 623661	-1.510635023	0.047218781	-1.510635023	0.047218781
Pin4 69713	-1.510755134	0.154294329	-1.390510301	0.163820519
Prkar1b 19085	-1.511303092	0.224961389	-1.511303092	0.224961389
Ank3 11735	-1.511727827	0.020822015	-1.610403447	0.009981094
S1pr5 94226	-1.511822398	0.024643093	-1.918999013	0.00051879
Arhgap4 171207	-1.512811499	0.0788684	-2.231098612	0.000913616
Gm8883 667931	-1.513437105	0.070203952	-1.284755374	0.140689411
Elk1 13712	-1.51360668	0.077192836	-1.834280496	0.027937938
Zfp607 545938	-1.514316768	0.208484421	-1.514316768	0.208484421
Ccdc57 71276	-1.514578871	0.099893302	-1.670286811	0.082113403
Lnp 69605	-1.514739211	0.096207927	-1.514739211	0.096207927
Nup88 19069	-1.515592794	0.011244082	-1.429915806	0.000765751
Cit 12704	-1.515719056	0.314578126	-1.430775758	0.37678302
Taf6l 225895	-1.515952379	0.065113613	-1.98626904	0.004416832
Sepsecs 211006	-1.516056307	0.184878177	-2.112407517	0.079947724
Stx3 20908	-1.516136287	0.060377943	-1.157172467	0.221114938
Cd79a 12518	-1.516365423	0.134219118	-1.750236937	0.045774162
Vps13d 230895	-1.516400279	0.149602831	-1.439741963	0.155211556
Zfp493 72958	-1.516463251	0.277624168	-2.782858531	0.107709595
Extl1 56219	-1.516760788	0.147211329	-1.509129036	0.115822404
Cd247 12503	-1.51721331	0.251236866	-1.51721331	0.251236866
Tchh 99681	-1.517224199	0.066374605	-1.122542846	0.258517608
Olfml2b 320078	-1.517478615	0.308724264	-7.433166667	0.042082278
Pgcp 54381	-1.517563405	0.001338026	-1.569652474	0.000992861
Mertk 17289	-1.517877329	0.187631147	1.079007183	0.404026603
Ap3m2 64933	-1.518154241	0.256844682	-2.990696787	0.07655088
Amhr2 110542	-1.518182962	0.327267251	1.784660662	0.257682973
Sp100 20684	-1.51857604	0.002857774	-1.750535948	1.89256E-05
Zfp317 244713	-1.518800815	0.123840478	-1.405848325	0.103561095
Ddx11 320209	-1.518908275	0.049818344	-1.370629081	0.101770888
Ly75 17076	-1.51956209	0.246751643	-4.682726317	0.001521082
Apcs 20219	-1.52012661	0.018525843	-1.666033872	0.002203162
Mdm1 17245	-1.520574676	0.294512838	-3.345078327	0.117211989
Tifab 212937	-1.520772321	0.018912848	-1.414957297	0.039975045
Fn1 14268	-1.520923236	0.025879952	-1.383770419	0.054231374
Ggn 243897	-1.521029333	0.072920134	-1.638535756	0.047100323
Cyp2s1 74134	-1.52114526	0.157292601	-1.807174404	0.050826696
Acnat1 230161	-1.5212281	0.02012973	-1.432852203	0.013011333
Proz 66901	-1.521342572	0.030163387	-1.644929118	0.023478746
Aifm3 72168	-1.521511351	0.116055264	-1.521511351	0.116055264
Pex3 56535	-1.521902656	0.05798975	-1.519087918	0.044404097
Atp2b4 381290	-1.522298155	0.367365318	3.53972	0.173296754
Zfp772 232855	-1.52280885	0.25944609	-3.253782729	0.065154741
Ccdc141 545428	-1.52311854	0.223737659	-1.295483838	0.237008367
Syce2 71846	-1.523155238	0.084079441	-1.711349559	0.029428578
Tmem123 71929	-1.523202839	0.083283823	-1.287788006	0.171369264
Trp53i11 277414	-1.523248107	0.010580934	-1.523248107	0.010580934
Il13ra1 16164	-1.523970239	0.134164119	-1.432250229	0.133137108

Gpr124 78560	-1.524887583	0.056914496	-1.654181888	0.029539312
Slc8a1 20541	-1.524944473	0.245305307	-4.699512956	0.001660581
Thrsp 21835	-1.52497231	0.047804397	-1.308985716	0.0976852
Abcg8 67470	-1.525492471	0.005376215	-1.57935835	0.000179347
Mum1 68114	-1.525710681	0.013714333	-1.454782242	0.002707889
Ankdd1b 271144	-1.525786287	0.2290074	-1.047919505	0.465399325
Ncald 52589	-1.525836439	0.00665159	-1.298609668	0.009077553
Cnm4 94220	-1.526500322	0.040235303	-1.399972	0.078296406
Mup1 17840	-1.526531324	0.253091567	1.105734307	0.424729409
Stat2 20847	-1.526764771	0.006465743	-1.800433948	0.000391474
Acaca 107476	-1.527250832	0.003405626	-1.429814864	0.005268757
Slc12a7 20499	-1.527956739	0.001857037	-1.455828781	0.004651474
BC046331 230967	-1.528309922	0.049330865	-1.676281971	0.037198336
Kifc2 16581	-1.528321833	0.019838868	-1.779453161	0.003390758
AU040320 100317	-1.52882344	0.001749188	-1.609781615	0.000442614
Tbc1d2 381605	-1.529184686	0.146123417	1.019264622	0.471109609
Vmo1 327956	-1.529382637	0.145264406	-1.949712663	0.072618092
Lyplal1 226791	-1.53005767	0.056645677	-1.53005767	0.056645677
Map3k4 26407	-1.530314435	0.009883361	-1.405751439	0.016239913
Ctsw 13041	-1.531321838	0.319318683	-4.970412121	0.06319026
Tmem132e 270893	-1.531531478	0.013556138	-1.659423984	0.002429597
Fgf1 14164	-1.531544573	0.002566067	-1.41832199	0.005034712
Ogg1 18294	-1.532184714	0.04296306	-1.335836458	0.088277846
Ctps2 55936	-1.532364303	0.051907837	-1.389014526	0.105019839
Abcb9 56325	-1.532390563	0.047808718	-1.732254448	0.005725322
Slc35a4 67843	-1.532401427	0.013905211	-1.532401427	0.013905211
Kcp 333088	-1.532556357	0.05606118	-1.433490985	0.096409827
Tmem65 74868	-1.532876631	0.186629758	-1.372437871	0.218920694
Cd160 54215	-1.533091694	0.299879933	-10.91965	0.013608087
Gnal 14680	-1.533633203	0.068688468	-1.653769052	0.043443131
Mex3c 240396	-1.533736793	0.243732193	1.006369106	0.495613547
Wdr13 73447	-1.533840257	0.063090331	-1.711153228	0.001987832
Adh1 11522	-1.533938395	0.019177809	-1.472619625	0.017722598
Fgf11 14166	-1.534145781	0.271652919	-2.662060606	0.134533887
Specc1l 74392	-1.534320346	0.0471975	-1.871310328	0.009451216
Herc6 67138	-1.534988017	0.134470283	-1.348267492	0.187274235
Glis1 230587	-1.535223956	0.210876767	-1.813516454	0.116357841
Bmf 171543	-1.535608951	0.123480661	-1.080000998	0.39929512
E130203B14Rik 320736	-1.535793846	0.206727669	-1.007012387	0.492731216
Dmxl1 240283	-1.53617833	0.230531877	-1.285509496	0.283907371
Intu 380614	-1.536228289	0.222883798	-1.314626311	0.315907644
Ankrd50 99696	-1.536249603	0.110513292	-1.9106809	0.049907153
Irf7 54123	-1.536378216	0.059406537	-1.929056466	0.010470071
Hjurp 381280	-1.536548627	0.004180591	-1.454125073	0.009963771
Dcbld2 73379	-1.536752295	0.21198205	-1.128656882	0.410237719
Rbm12b 72397	-1.537221017	0.190480637	-1.02327861	0.471039394
Spry2 24064	-1.537350854	0.180367613	-1.537350854	0.180367613
Bphl 68021	-1.537432683	0.000245044	-1.493680782	0.000739557
0610010B08Rik 100039060	-1.537479416	0.147803695	-1.537479416	0.147803695
Hnrnpul1 232989	-1.538354991	0.041270362	-1.193317948	0.152360177
Abi1 11308	-1.539367778	0.151950787	1.014260946	0.479572523
Tlr11 239081	-1.539557313	0.362390887	1	#DIV/0!
Tceal5 331532	-1.539557313	0.362390887	1	#DIV/0!

Paqr8 74229	-1.539628856	0.342115672	-2.8	0.173296754
Cxcr7 12778	-1.539919236	0.282745318	-1.689048841	0.291071893
Gpr77 319430	-1.540341574	0.031427692	-1.231331259	0.017331506
Cib2 56506	-1.540426542	0.151613931	-1.28749279	0.256794588
Serpina3c 16625	-1.540912438	0.156788928	-1.289938604	0.261381144
Gypc 71683	-1.541046976	0.015712942	-1.367099222	0.030579951
Nfatc1 18018	-1.542135058	0.019164574	-1.22647523	0.03583598
Rb1 19645	-1.543032526	0.113301307	-2.287092014	0.002459936
F2rl1 14063	-1.543280038	0.224382481	-1.133889134	0.41596626
Il2rb 16185	-1.54359295	0.062978951	-1.601687327	0.024779171
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Arid5b 71371	-1.54424292	0.159056876	1.037108292	0.441171607
Ankrd11 77087	-1.544279603	0.071039435	-1.586961286	0.025852154
A1cf 69865	-1.545201196	0.114866881	-1.312061395	0.164311015
Usp46 69727	-1.54534025	0.075142281	-1.348870607	0.142669398
Camkk1 55984	-1.545763408	0.315832467	-1.122857175	0.457104283
Colec10 239447	-1.546011466	0.132218884	-1.199282575	0.284564014
Sh3bp1 20401	-1.546061097	0.006527105	-1.48890926	0.015065161
Ace2 70008	-1.546228662	0.166707417	-1.830508982	0.066972281
Sp4 20688	-1.546898416	0.272699172	1.076102787	0.459919448
Btk 12229	-1.546903636	0.302737371	-14.17995	0.015325435
Abi3 66610	-1.546974437	0.039237629	-1.434651207	0.038771179
Syne1 64009	-1.547957115	0.049233429	-1.751866847	0.006610097
Nme4 56520	-1.548095851	0.143639814	-1.860483983	0.024064779
Tceanc 245695	-1.549694262	0.163774668	-1.482507586	0.18404372
Gatm 67092	-1.550151248	0.054521303	-1.986896129	0.006051227
Fbxl2 72179	-1.550530375	0.331854274	1	#DIV/0!
Dagla 269060	-1.550561435	0.082774646	-1.754495919	0.026453473
Chst3 53374	-1.550914141	0.037644271	-1.677830215	0.031418045
Dag1 13138	-1.55113971	0.15022694	-1.982523362	0.080569493
Prkd3 75292	-1.551670904	0.037767787	-1.22086756	0.104870306
Dmrta1 242523	-1.552081021	0.291013488	-3.617771345	0.113887469
Snx16 74718	-1.55208659	0.103273243	-1.55208659	0.103273243
Ccr5 12774	-1.552198458	0.089102087	-1.300542876	0.174614347
Dennd2d 72121	-1.552746625	0.115716178	-1.988226557	0.047585971
Slc10a1 20493	-1.552925337	0.002995821	-1.330018668	0.004158503
Ccdc76 229780	-1.553313607	0.223945921	-1.137163103	0.415313841
Birc3 11796	-1.553383926	0.101073897	-1.553383926	0.101073897
Galnt7 108150	-1.553926582	0.225922661	-3.188621513	0.039634992
Tnfrsf4 22163	-1.554061514	0.262476572	-1.554061514	0.262476572
Ptpn14 19250	-1.55436246	0.149130489	-1.858823969	0.043065603
Ppp1r13b 21981	-1.554976536	0.006562489	-1.420398268	0.013645139
Plekha2 83436	-1.555223688	0.043207639	-1.377268958	0.087283579
Il12rb2 16162	-1.555477331	0.253190296	-3.4218599	0.063814866
Epas1 13819	-1.555639074	0.11208802	-1.417586456	0.09515356
Pcgf1 69837	-1.555702505	0.210870334	-1.775696054	0.139631926
Dtx1 14357	-1.556090388	0.093477639	-2.016836725	0.026639682
Trp53bp1 27223	-1.556273292	0.028607234	-1.359528879	0.058484334
Evi2b 216984	-1.556433618	0.156672324	-1.47891201	0.148792405
Asb10 117590	-1.55650523	0.338984102	-2.8	0.173296754
Eif2ak4 27103	-1.556705952	0.177449468	-1.130054459	0.38310223
Dnahc2 327954	-1.557275672	0.314234734	-6.194816667	0.093788939
Retnla 57262	-1.557275672	0.314234734	-6.194816667	0.093788939

Pm20d1 212933	-1.557305397	0.006025764	-1.501308667	0.013495647
Klhl20 226541	-1.558042137	0.126016381	-2.310722562	0.017741065
Slc22a1 20517	-1.558595984	0.001095457	-1.452766073	0.000533831
Mir425 723864	-1.55896843	0.297835998	-2.283448485	0.141958073
Bcl2l11 12125	-1.559192274	0.048413105	-1.596867965	0.01335335
Fnbp1 214459	-1.559560132	0.146142457	-1.224699442	0.300870114
Rnase4 58809	-1.560106934	0.027657104	-1.722772698	0.018004709
Ctcf 664799	-1.560538386	0.198798634	-3.656357477	0.004133968
Prkcdp 109042	-1.560583447	0.25532231	1.187473196	0.364326203
Ino80 68142	-1.560708842	0.039527286	-1.747208002	0.006334326
Jak3 16453	-1.561009675	0.00556943	-1.436819304	0.00732906
Slc26a10 216441	-1.56190716	0.077445912	-1.467652978	0.121017091
Gclc 14629	-1.561960846	0.151484842	-1.38543239	0.219444859
Lilrb3 18733	-1.562039624	0.064971738	-1.658415695	0.009069945
Alkbh8 67667	-1.562932543	0.248695232	-3.308206487	0.035640116
Cd1d2 12480	-1.563008714	0.242443375	-3.208217213	0.034403315
Krt7 110310	-1.563714783	0.14221993	-1.747006612	0.055263716
Dntt 21673	-1.563822097	0.198843721	-1.066646823	0.441770604
Rab11fip2 74998	-1.563982825	0.126488707	-1.232244404	0.267532215
Cyp2c44 226143	-1.564090586	0.008526893	-1.836446386	3.07219E-06
Plcx2 433022	-1.56414291	0.194146542	-1.064439044	0.440141993
Saa3 20210	-1.565067281	0.168213539	-2.833616052	0.011648592
Elovl6 170439	-1.565209541	0.046376743	-1.211402148	0.174741134
Reck 53614	-1.565453361	0.203050189	-1.813406579	0.153955159
Pion 212167	-1.565776387	0.016611764	-1.791163955	0.004884137
Rttm 246102	-1.566244922	0.208300982	-2.28030796	0.072602753
Ptpru 19273	-1.566285346	0.16644851	-1.245768609	0.318402683
Tprn 97031	-1.566297379	0.030766071	-1.451223225	0.063761831
Zfp384 269800	-1.56635453	0.061543931	-1.56635453	0.061543931
Ints1 68510	-1.566543591	0.001067908	-1.731142159	0.000104317
Wls 68151	-1.566866546	0.151699333	-1.566866546	0.151699333
Rwdd3 66568	-1.567096365	0.058597882	-1.602897003	0.011611658
Cyth4 72318	-1.567247431	0.152257241	-2.924262337	0.00201497
Slc6a17 229706	-1.567666196	0.311763001	-6.23615	0.093645599
Cilp 214425	-1.567666196	0.311763001	-6.23615	0.093645599
Igj 16069	-1.567666196	0.311763001	-6.23615	0.093645599
Ncor1 20185	-1.567815852	0.062942358	-1.163717895	0.179193152
Nfatc2 18019	-1.568987676	0.287456513	1.238734538	0.392280275
Diap2 54004	-1.569185673	0.194028966	-1.225974571	0.26054405
Ddi2 68817	-1.569845165	0.152969036	-1.569845165	0.152969036
Lcp2 16822	-1.569937325	0.151550102	-2.888316914	0.002883122
Cdca8 52276	-1.570199787	0.247533163	-2.267464698	0.139822829
Usp3 235441	-1.571399183	0.000573822	-1.673211273	0.000310782
4931406C07Rik 70984	-1.57149936	0.023385543	-1.458956176	0.047633177
Sh3bgrl2 212531	-1.572078412	0.112175845	-1.269252286	0.234074021
Galnt4 14426	-1.572161332	0.150102821	-1.199179146	0.317891669
Atoh8 71093	-1.572369502	0.034916158	-1.714631852	0.027693195
Megf9 230316	-1.572435837	0.283106416	1.025747745	0.472973442
Figl 60344	-1.572452599	0.058329299	-1.353616681	0.117598797
Gpr125 70693	-1.572662866	0.000378931	-1.506556793	0.000109425
Gstm5 14866	-1.573417194	0.076883171	-1.887444903	0.037398498
Ccdc151 77609	-1.573592048	0.044248656	-1.788047916	0.0256689
Oas1c 114643	-1.575329309	0.158573102	-1.210390234	0.325467108

Rassf8 71323	-1.575523509	0.224649525	-1.007915804	0.482975275
Ccdc34 68201	-1.575791103	0.163668065	-1.723982197	0.138750165
Nup160 59015	-1.576662975	0.190471665	-3.232031681	0.009217895
Kif21b 16565	-1.576690535	0.081270601	-1.31705013	0.161102552
Ggt6 71522	-1.576786677	0.000573074	-1.576786677	0.000573074
Trim23 81003	-1.576882422	0.267584621	1.090316231	0.452439847
9430008C03Rik 68108	-1.577083277	0.066728194	-1.29168521	0.118536748
Mnda 100040462	-1.577635105	0.019426403	-1.370227576	0.036628176
9130409I23Rik 619326	-1.577715255	0.140743766	-2.197820113	0.049151217
5033411D12Rik 192136	-1.578439521	0.010683043	-1.578439521	0.010683043
Apbb1 11785	-1.578542446	0.09643818	-2.198856559	0.015220117
2210404O07Rik 72273	-1.578640504	0.240504669	-4.107081102	0.028677687
Acvrl1 11482	-1.579701192	0.026089688	-1.23395639	0.071260462
Ola1 67059	-1.579948672	0.011754106	-1.860343488	0.000238838
Fam113a 319513	-1.580073478	0.00019613	-1.580073478	0.00019613
Casp12 12364	-1.580135052	0.273237139	1.02527114	0.487743454
Gm10516 100038712	-1.581886266	0.010852052	-1.393064285	0.018881386
Taf1d 75316	-1.582048877	0.141991553	-2.008958014	0.079546392
40975 57438	-1.582110592	0.234129594	1.012862175	0.490946164
Spred2 114716	-1.582140399	0.233458877	-1.510815282	0.274581911
Trex1 22040	-1.58250949	0.033534937	-1.566935402	0.009339279
Crygn 214301	-1.582712354	0.251887384	1.119528457	0.422542708
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Camsap3 69697	-1.583209823	0.005532922	-1.567087977	0.000518612
Il27ra 50931	-1.583463064	0.129113721	-1.3220787	0.23266195
Rai14 75646	-1.583648545	0.077624609	-1.328300371	0.159054097
Rapgef6 192786	-1.58388196	0.150558546	-1.58388196	0.150558546
Hmgxb4 70823	-1.584164385	0.186108392	-1.693590956	0.151363868
Pgap2 233575	-1.584262065	0.082007572	-2.235697491	0.004139097
1700028J19Rik 70004	-1.584343213	0.299197086	-2.8	0.173296754
2700029M09Rik 72612	-1.584752165	0.024985367	-2.018152653	0.001507516
Tpcn2 233979	-1.585587808	0.041939432	-1.585587808	0.041939432
Setbp1 240427	-1.585594755	0.277293131	-4.343232323	0.079035869
Alg10b 380959	-1.585639549	0.246129189	1.048000444	0.436850153
9330020H09Rik 100048895	-1.585894853	0.130526848	-1.030491862	0.458912256
Kcns3 238076	-1.585940474	0.353523693	1	#DIV/0!
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Zdhhc24 70605	-1.587267951	0.03704918	-1.372648455	0.064465422
Pvrl3 58998	-1.587363094	0.012632247	-1.696692159	0.005143478
4833422F24Rik 74614	-1.587378851	0.160296973	-1.230304356	0.321357002
Xkr8 381560	-1.588057431	0.01804917	-1.261048225	0.027093718
Mid1ip1 68041	-1.588248879	0.079805227	-1.156966176	0.206010451
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Il33 77125	-1.588916087	0.261312272	-2.838589444	0.129383442
Ctso 229445	-1.589092008	0.003275623	-1.484506229	0.005401749
Hexim2 71059	-1.589731553	0.140672848	-2.455375598	0.025631666
Myoz3 170947	-1.589744687	0.297810565	-2.8202	0.173296754
Phldb2 208177	-1.589927734	0.031288211	-1.382409003	0.051233173
Fam123b 72345	-1.590179181	0.158706029	-2.868501068	0.006925345
Txndc16 70561	-1.591221906	0.143922109	-1.007048633	0.491058321
Scara3 219151	-1.591455113	0.135393467	-1.496103475	0.164141594
BC020402 407824	-1.591730968	0.120606103	-1.573862376	0.144898997

Abi3bp 320712	-1.592097235	0.137861964	-1.592097235	0.137861964
Dnajc16 214063	-1.592286937	0.041684871	-1.96751655	0.008394212
Mblac2 72852	-1.592689311	0.146211849	-1.592689311	0.146211849
Nr3c1 14815	-1.59334996	0.095376901	-1.532377656	0.070463265
Abcd1 11666	-1.593375591	0.000682676	-1.593375591	0.000682676
Loxl3 16950	-1.594047941	0.10109697	-2.225364137	0.019770006
Mll3 231051	-1.594889282	0.21688583	-1.173715417	0.366116169
P2ry13 74191	-1.596058647	0.094637108	-1.302469298	0.196335649
Gnptab 432486	-1.596981551	0.06430132	-1.695889875	0.0431622
Tmem184a 231832	-1.597388062	0.01165997	-1.597388062	0.01165997
Sult5a1 57429	-1.59739801	0.037313021	-1.853070255	0.017076296
Zfp583 213011	-1.597606238	0.296561254	-2.8	0.173296754
Angptl1 72713	-1.597606238	0.296561254	-2.8	0.173296754
Ccdc78 381077	-1.597798717	0.317446086	-2.8202	0.173296754
Ccdc152 100039139	-1.599299906	0.247007752	-2.753551128	0.120180084
Myl6b 216459	-1.599568176	0.198995047	-1.077313758	0.435909646
Asb3 65257	-1.600680045	0.100566965	-1.914208325	0.012363994
Siglec1 20612	-1.601055184	0.186770571	-1.794245103	0.150294882
Sipa1l3 74206	-1.602222035	0.02378125	-1.433781478	0.045166297
Rpgrip1l 244585	-1.602267462	0.256403677	-4.183444187	0.058973421
Smg1 233789	-1.602363637	0.104484263	-1.468566314	0.098274668
Dock2 94176	-1.602983316	0.093567904	-1.950569294	0.0504774
Cdk3-ps 69681	-1.603007712	0.295191603	-2.8202	0.173296754
Gm14308 100043381	-1.604712685	0.199127463	-2.835007566	0.055122727
Sord 20322	-1.604801779	0.005818919	-1.564435148	0.000792504
Fbxo5 67141	-1.605098455	0.229824007	-1.023197358	0.484630668
Bicc1 83675	-1.60532342	0.235710905	-2.068929547	0.183148971
Arid4b 94246	-1.605340717	0.152807412	-1.213869927	0.320646688
Xist 213742	-1.605484827	0.08682832	-1.242973834	0.14850238
Abca2 11305	-1.605550103	0.001991723	-1.477399521	0.000997897
Xlr3a 22445	-1.60577638	0.18241962	-1.60577638	0.18241962
Zfp865 319748	-1.605808057	0.025868078	-2.027117134	0.001320744
4930412C18Rik 320152	-1.605988331	0.1480522	-1.278922803	0.290967519
Cyb5r4 266690	-1.606032761	0.111790391	-1.664424334	0.070263358
Zbtb38 245007	-1.606506029	0.186260142	-1.322969275	0.282680438
Cpt1c 78070	-1.606613599	0.186140156	-1.606613599	0.186140156
Car15 80733	-1.60662548	0.253003047	-2.020938106	0.219451422
Slc28a2 269346	-1.606807507	0.258054881	-4.627698349	0.050034393
Phip 83946	-1.607075249	0.142358957	-1.873021199	0.062413192
Car13 71934	-1.607640514	0.350174696	1	#DIV/0!
Nkd2 72293	-1.607640514	0.350174696	1	#DIV/0!
Zfp7 223669	-1.607716728	0.028615563	-1.470776146	0.004649246
Erb3 13867	-1.607808997	0.190322354	-1.12423708	0.40485186
Ikbp1 67454	-1.607825458	0.102975081	-1.346793396	0.189860869
4933407K13Rik 74396	-1.608110114	0.293443847	-1.454545455	0.37214076
6720401G13Rik 103012	-1.608396755	0.080528125	-1.453199717	0.072791897
Ppp1r9a 243725	-1.608453959	0.235170179	-1.02931305	0.463159745
Cdc40 71713	-1.608686171	0.249954545	-3.398344211	0.051109741
Selplg 20345	-1.608799224	0.040689258	-1.608799224	0.040689258
Cenpc1 12617	-1.608948056	0.177496276	-1.608948056	0.177496276
Gstm6 14867	-1.609527409	0.015350337	-1.486017978	0.004260455
Lect2 16841	-1.609946078	0.011292485	-1.609946078	0.011292485
Syde2 214804	-1.609948149	0.124486078	-2.123796245	0.055342287

Hao1 15112	-1.610301958	0.001729455	-1.654655661	9.40692E-05
Slc2a2 20526	-1.611415528	0.047561519	-1.226845521	0.16636865
Ccnt1 12455	-1.611489724	0.224350974	-1.078904146	0.451018
Pkd1 18763	-1.611926992	0.030291207	-1.611926992	0.030291207
Grin3b 170483	-1.612074938	0.201310347	-1.612074938	0.201310347
Arhgef9 236915	-1.612867491	0.079194972	-1.642375884	0.043377631
Zfp758 224598	-1.613180905	0.182214255	-1.190080651	0.366167061
Myef2 17876	-1.613511034	0.167879211	-2.133325372	0.060550937
B930003M22Rik 100526796	-1.614297864	0.274113798	-6.42165	0.04426109
Pls1 102502	-1.614305727	0.254026732	-2.511332479	0.158381868
Numb1 18223	-1.615375928	0.039611248	-1.234805345	0.147526917
Ly6g6e 70274	-1.616026667	0.285301413	-8.080133333	0.046315002
Shisa5 66940	-1.616223989	8.91539E-06	-1.761838275	1.22053E-07
Znhit3 448850	-1.616533669	0.128844444	-1.656004257	0.072259519
Tusc3 80286	-1.616901573	0.133672777	-2.458370216	0.028668526
Spock2 94214	-1.618231609	0.247870828	-1.637938004	0.215939844
Myrip 245049	-1.619002205	0.31126629	1.823071741	0.250512967
Npr2 230103	-1.619130519	0.003148973	-1.421943694	0.006863266
Cpsf7 269061	-1.619175447	0.047628627	-1.254342679	0.091115778
Ppapdc1b 71910	-1.619298816	0.001842607	-1.378268124	0.001332744
Arsb 11881	-1.619623499	0.001363903	-1.619623499	0.001363903
Scaper 244891	-1.619632501	0.11859522	-2.832202974	0.00359722
Cabp2 29866	-1.620456764	0.272972998	-6.44615	0.04497135
Nudt12 67993	-1.620652802	0.204779744	-2.444157559	0.103671955
Large 16795	-1.621364969	0.09497313	-2.368311853	0.011457857
Larp4b 217980	-1.622030347	0.162117107	-1.281970475	0.190925481
Glcci1 170772	-1.622143198	0.199467428	-1.047433818	0.459494493
A430110N23Rik 269855	-1.622460676	0.09083142	-1.284983229	0.093524385
Ccdc89 70054	-1.62251392	0.2717845	-6.454333333	0.043911777
Cdk5r1 12569	-1.622563333	0.284264933	-8.112816667	0.047356131
Cav2 12390	-1.62319493	0.15215857	-2.209583687	0.074992497
Hhip 15245	-1.623768002	0.134440853	-1.460592413	0.170095797
Il1b 16176	-1.623929196	0.192095453	-1.782149709	0.133382615
Ltb4r1 16995	-1.624538456	0.027808575	-1.271838585	0.096780712
Fkbp1b 14226	-1.624688389	0.271784804	-6.462983333	0.044795474
Nsun3 106338	-1.624832109	0.115680412	-1.624832109	0.115680412
Prickle2 243548	-1.624842868	0.107712667	-2.031931907	0.044971069
Ddah1 69219	-1.625440616	0.013131479	-1.547323704	0.026970996
Mapk12 29857	-1.625834319	0.095305676	-1.625834319	0.095305676
Appbp2 66884	-1.62748941	0.084068519	-1.953092216	0.005921471
Ica1 15893	-1.627911341	0.102823563	-1.362594106	0.205536844
Paccin1 23969	-1.62808083	0.212708546	-2.908171717	0.075151509
Lrit1 239037	-1.628142449	0.123067643	-2.559747366	0.007642996
Phc3 241915	-1.628509648	0.063399717	-2.074612736	0.018071976
Gng7 14708	-1.628536858	0.109967806	-1.945856217	0.020854713
Lrch3 70144	-1.629054461	0.262860453	1.210611987	0.384563535
Naa30 70646	-1.629522478	0.0594977	-1.424042006	0.074597628
5330417C22Rik 229722	-1.629993496	0.19585666	-1.82274941	0.17333311
Tcf12 21406	-1.630285214	0.102356831	-1.630285214	0.102356831
Sfrs18 66625	-1.630940582	0.117145	-1.182497077	0.233776538
Nrp1 18186	-1.631108769	0.019518308	-1.682042165	0.007617073
Vamp1 22317	-1.631159012	0.072533165	-1.807490381	0.061462579
G6pdx 14381	-1.631228551	0.066506323	-1.631228551	0.066506323

Rgs5 19737	-1.632196258	0.18771404	-1.993502383	0.145855161
Itih4 16427	-1.632375743	0.025295859	-1.44972895	0.04770136
Tarsl2 272396	-1.63267133	0.043386648	-1.781245239	0.020964843
Rrad 56437	-1.632904445	0.269476835	-6.495666667	0.044433779
Clec2h 94071	-1.632904445	0.269476835	-6.495666667	0.044433779
Snord93 100217436	-1.632904445	0.269476835	-6.495666667	0.044433779
Lass1 93898	-1.632904445	0.269476835	-6.495666667	0.044433779
Rtel1 269400	-1.632980793	0.049533021	-1.424600986	0.100871593
Dok3 27261	-1.633353868	0.037445446	-2.063967505	0.005749858
Gpr12 14738	-1.634120753	0.19207759	-1.634120753	0.19207759
Cyp2j9 74519	-1.63424655	0.065615146	-1.135246198	0.247652736
B230217C12Rik 68127	-1.634362759	0.255029243	-13.76916	2.35691E-05
I830012O16Rik 667370	-1.634676243	0.070361761	-1.386187036	0.143936113
Orm3 18407	-1.634963816	0.077880214	-1.636219163	0.023821232
Scnn1a 20276	-1.635003634	0.002323471	-1.736852002	0.002103379
Lrit2 239038	-1.635133867	0.117350692	-2.097900437	0.039394864
Pip4k2a 18718	-1.635214119	0.027472804	-1.793956034	0.007386502
Srrd 70118	-1.635214449	0.037406883	-1.681656109	0.02287575
Adamts10 224697	-1.635535693	0.045347646	-2.032984921	0.000624214
Klf1 16596	-1.635737403	0.008185294	-1.370620793	0.018333029
Lgals4 16855	-1.636113995	0.001853017	-1.503209752	0.00091684
Tbl1x 21372	-1.636134746	0.183354483	-1.767484564	0.083374674
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Mdk 17242	-1.637959816	0.195901697	-2.081950954	0.044897724
Cyb5b 66427	-1.638113553	0.000511412	-1.531381791	0.000232689
Dgkq 110524	-1.638394691	0.072170787	-1.638394691	0.072170787
Prkd2 101540	-1.638398829	0.026367702	-1.291836643	0.062095083
Nfam1 74039	-1.638757528	0.047373772	-1.638757528	0.047373772
Adora2a 11540	-1.638883825	0.063005492	-2.412988768	0.001225
Chchd8 68185	-1.639252525	0.01359365	-1.338164261	0.0427362
Rpap1 68925	-1.639899787	0.02235921	-1.578653155	0.001716884
Faim3 69169	-1.639978841	0.170118073	-1.788640801	0.155634446
Rad21 19357	-1.641253737	0.166556833	-1.086201725	0.400102845
Gli1 14632	-1.641900542	0.329677389	1.621721864	0.33676256
Rasal2 226525	-1.642401147	0.113198512	-1.370979133	0.18136733
Cramp1 57354	-1.642735043	0.212893245	-1.21077619	0.345315059
Slc39a5 72002	-1.642814631	0.034238881	-1.752130171	0.009431005
Papolg 216578	-1.642904021	0.144825611	-1.256830723	0.299424643
Nfkbie 18037	-1.643262124	0.100627488	-2.124531625	0.007885477
Ankra2 68558	-1.64333539	0.026045703	-1.512260153	0.054684224
Zfp606 67370	-1.643519059	0.075063497	-1.182205812	0.249209277
Leap2 259301	-1.643582931	0.030210708	-1.862290744	0.018268937
Zfp956 101197	-1.643717108	0.066101169	-1.427422856	0.134202797
Tnfsf14 50930	-1.643830208	0.234907367	-1.906558976	0.209895125
Myo1g 246177	-1.643987065	0.069536326	-2.693347977	1.18394E-05
Pcolce2 76477	-1.644198633	0.062303198	-1.945291742	0.010044334
Serpina6 12401	-1.644225267	0.088336707	-2.599971481	0.002468242
Xrcc4 108138	-1.644439638	0.028398744	-1.450624736	0.053819734
Tyk2 54721	-1.645122966	0.012413625	-1.666694069	0.00715312
2700094K13Rik 72657	-1.645622937	0.039741059	-1.598558068	0.013738932
Rdm1 66599	-1.645728289	0.038619136	-1.870257322	0.004659062
Adam19 11492	-1.646225397	0.158558999	-1.903768073	0.098509017
Cep78 208518	-1.646481101	0.092331762	-2.287550754	0.021684298

Cstad 78617	-1.646971955	0.260467465	-1.637078639	0.293631698
Neat1 66961	-1.64762945	0.076020943	-1.182932461	0.264929275
Rundc1 217201	-1.64798201	0.004625089	-1.823874468	0.001257236
Agrn 11603	-1.648871648	0.060439478	-1.369207618	0.116611081
Mast1 56527	-1.64975439	0.284679928	-8.96592	0.022859172
Slc9a6 236794	-1.650093248	0.017680498	-1.613249791	0.004358599
Cd84 12523	-1.650736664	0.067999225	-1.404855536	0.139018086
Gm17296 212728	-1.650874603	0.165083139	-1.945969931	0.123409541
Pml 18854	-1.651119128	4.91955E-05	-1.59584458	9.32477E-05
Zfp174 385674	-1.651421139	0.127429645	-3.123575722	0.002547196
Slc4a9 240215	-1.651864552	0.198770972	-1.014013088	0.486720651
Gckr 231103	-1.652657226	0.001837315	-1.652657226	0.001837315
Naalad2 72560	-1.652993175	0.275238286	-8.096966667	0.046064383
Car14 23831	-1.653632512	0.000139617	-1.751691073	1.99656E-06
lqgap3 404710	-1.654137984	0.293749357	-6.580133333	0.095073527
Tnfrsf9 21942	-1.654137984	0.293749357	-6.580133333	0.095073527
Gstm3 14864	-1.654318694	0.053617597	-1.345747007	0.079587522
0610040B10Rik 67672	-1.65584106	0.149616652	-1.258466693	0.307267274
lrgm2 54396	-1.656170054	0.017200273	-1.476060579	0.02912842
Ccdc3 74186	-1.656814853	0.062110265	-1.501332878	0.108758185
Snpc3 77634	-1.657461981	0.242022018	1.107576357	0.432071815
Zfp710 209225	-1.657658748	4.62669E-05	-1.522489837	4.69083E-05
Aldoc 11676	-1.657741482	0.113098969	-1.243650871	0.239010043
Atat1 73242	-1.658139728	0.000863425	-1.552860655	0.00088946
Runx3 12399	-1.658583124	0.191866325	-3.726504649	0.020988845
Gm13698 668096	-1.658638303	0.124054589	-2.367267604	0.04191262
Isoc1 66307	-1.659234514	0.08305695	-1.519054972	0.065906178
Tfcp2l1 81879	-1.65941296	0.087169911	-1.428793812	0.148573421
Rac2 19354	-1.659424395	0.002085866	-1.630289375	0.005126785
E330016A19Rik 214763	-1.659842094	0.226658992	-1.659842094	0.226658992
Trip13 69716	-1.660179572	0.292881026	-3.925	0.173296754
Mybl2 17865	-1.660399188	0.184765033	-2.539471071	0.085388228
Cux1 13047	-1.660474775	0.003996866	-1.625634095	0.000424867
Sepn1 74777	-1.660723208	0.060735946	-1.660723208	0.060735946
Rbm33 381626	-1.660784016	0.092332312	-1.254741909	0.165323539
Tecpr1 70381	-1.661784763	0.012481974	-1.479662947	0.016710515
Arhgef6 73341	-1.661972752	0.099661378	-2.483511189	0.015212152
Zfhx2 239102	-1.662099075	0.036654131	-1.279387248	0.08867245
C78339 97863	-1.662211032	0.26013642	-1.134450896	0.422062756
1700025K23Rik 66337	-1.663534103	0.321565824	-2.76078	0.173296754
BC024386 212965	-1.663698165	0.006434047	-1.558879349	0.014853862
Gpr160 71862	-1.663976591	0.195257619	-2.864906452	0.071212126
Plekha6 240753	-1.664117677	0.007608015	-1.664117677	0.007608015
Pfkfb3 170768	-1.66438917	0.169440089	-1.403455999	0.08952357
C1galt1 94192	-1.665388026	0.175061037	-2.116168968	0.050684142
Gemin8 237221	-1.666032837	0.087405362	-1.989941165	0.010527848
Bend4 666938	-1.666318835	0.22124899	1.176242295	0.384301458
Nkx2-1 21869	-1.666337759	0.272375901	-8.162333333	0.046595088
Nr1d2 353187	-1.666344298	0.094260316	-1.235941003	0.150107928
Glg1 20340	-1.666540613	0.022977094	-1.514353905	0.047791085
Tceal6 66104	-1.666666667	0.170446566	1	#DIV/0!
Igf2 16002	-1.667120053	0.115879404	-1.667120053	0.115879404
Frs2 327826	-1.667496281	0.165698577	-1.151543146	0.370371736

Zfp395 380912	-1.668176212	0.005181306	-1.834240315	0.002987509
Gabrq 57249	-1.668642822	0.291292711	-3.925	0.173296754
Mef2a 17258	-1.668728027	0.276959175	1.705693277	0.014134966
Nudt13 67725	-1.670256782	0.004052161	-1.562089295	0.008120882
Mnda 381308	-1.670333466	0.122496434	-1.357129652	0.242305176
Dnajc9 108671	-1.67060973	0.019854035	-1.326979511	0.055362401
Chd3 216848	-1.67281074	0.005453755	-1.530681801	0.008021484
Jam3 83964	-1.672995736	0.20416446	-2.077146768	0.161022001
Gprc5b 64297	-1.673107757	0.190023623	-2.275047768	0.097089671
Cyp4f17 208285	-1.673684276	0.028063236	-1.673684276	0.028063236
Tmem199 195040	-1.673929489	0.03682826	-1.450802673	0.070740456
Akr1c14 105387	-1.674078226	0.069213461	-1.454558066	0.069278023
RbmX2 209003	-1.6741979	0.15324935	-1.020617533	0.479596899
Zfp518b 100515	-1.674251429	0.166598536	-3.460873102	0.010490817
Rarb 218772	-1.674491474	0.14083798	-1.218209669	0.307236577
Mlxip1 58805	-1.676091496	0.014280816	-1.578401984	0.029512733
Ildr2 100039795	-1.676187126	0.010646664	-1.676187126	0.010646664
Gbp8 76074	-1.676343733	0.063347622	-2.172696156	0.018725395
Trem1 71326	-1.676478453	0.283006472	-2.76078	0.173296754
Serpinb1c 380839	-1.676478453	0.283006472	-2.76078	0.173296754
Ripk3 56532	-1.676569969	0.140365872	-1.264225056	0.294498843
Cxcl14 57266	-1.676778915	0.120502822	-1.395523875	0.230427877
1810064F22Rik 69862	-1.677061188	0.228367159	-1.677061188	0.228367159
Spats2 72572	-1.677587726	0.018600661	-1.817389655	0.007271777
Mir546 723882	-1.67789458	0.263734308	-2.3037	0.15892251
Slc22a23 73102	-1.678293376	0.016534187	-1.341705074	0.035285634
Thbs2 21826	-1.678757227	0.141521236	-1.678757227	0.141521236
Gla 11605	-1.678874319	0.022519256	-1.620296005	0.004328827
Rasal3 320484	-1.679136581	0.077080623	-1.451564148	0.153488784
Zfp160 224585	-1.679227806	0.197937755	-1.171968448	0.396178324
Mfsd6l 215723	-1.679565441	0.341175328	1	#DIV/0!
Pgc 109820	-1.679565441	0.341175328	1	#DIV/0!
Cyp4f14 64385	-1.679746683	0.000239333	-1.78791945	4.10795E-06
Mars2 212679	-1.680412889	0.207595328	-1.074948834	0.449911652
Mdc1 240087	-1.680575348	0.076706127	-1.391301218	0.157248663
Traf1 22029	-1.680821735	0.161901704	-2.225794019	0.077446582
Slc41a2 338365	-1.68084442	0.227724913	1.389051461	0.144313583
Ppp1r3e 105651	-1.680848028	0.007673158	-2.111402436	0.000254409
Emb 13723	-1.681267527	0.255241667	-6.404816667	0.044430303
Lst1 16988	-1.681351162	0.21228564	-2.577069326	0.079542024
Mical1 171580	-1.681464202	0.02414458	-1.681464202	0.02414458
Lyst 17101	-1.682081398	0.119125472	-1.256995996	0.255155356
Mir1949 100316700	-1.682297636	0.077400348	-2.620684414	0.00457064
Ano1 101772	-1.682674715	0.081546374	-1.95494224	0.022586413
Fabp1 14080	-1.682754208	0.046971055	-1.427868151	0.09035385
Ppwd1 238831	-1.68294513	0.07010921	-2.099976177	0.031831111
Hsd3b2 15493	-1.684659721	0.013125423	-1.684659721	0.013125423
Dopey1 320615	-1.685093922	0.061690651	-1.990949993	0.037553166
Ascl3 56787	-1.685686286	0.25407837	-6.42165	0.04426109
Fam55c 385658	-1.686247212	0.246141559	-1.72578057	0.278974436
5730559C18Rik 67313	-1.686965869	0.280519474	-2.8	0.173296754
Mdfic 16543	-1.687604588	0.065749031	-1.37741626	0.127736568
Lrg1 76905	-1.687952922	0.019577966	-1.883261072	0.002364582

6230427J02Rik 68176	-1.688144453	0.183045694	-4.430131319	0.00377609
Ddit4l 73284	-1.689392652	0.083437475	-1.346787572	0.16945781
Pmp22 18858	-1.690271227	0.0597296	-1.952665874	0.002985716
Fastkd3 69577	-1.691882624	0.064012732	-1.691882624	0.064012732
Ankrd24 70615	-1.691942632	0.005034794	-1.691942632	0.005034794
Slc22a13b 109280	-1.692117548	0.253065206	-6.44615	0.04497135
Nrp2 18187	-1.692260986	0.023916083	-2.164632246	0.002071187
4930513N10Rik 319960	-1.692367343	0.279253887	-2.8202	0.173296754
4930432K21Rik 74666	-1.692367343	0.279253887	-2.8202	0.173296754
1700067K01Rik 73453	-1.692815864	0.111088303	-1.692815864	0.111088303
Nxn1l 234404	-1.692857143	0.272492918	-2.8	0.173296754
Adamts3 330119	-1.692857143	0.272492918	-2.8	0.173296754
Spns3 77577	-1.692949721	0.290590697	-4.6202	0.07056113
Gmip 78816	-1.6929673	0.001103473	-1.6929673	0.001103473
1110028C15Rik 68691	-1.693097091	0.111425824	-1.080303666	0.396566232
Arhgef37 328967	-1.694022649	0.12387789	-1.285177103	0.262743865
Gm10638 666945	-1.694116199	0.289329356	-1.217265772	0.429152681
Pcbp3 59093	-1.694420337	0.11601919	-2.776875309	0.01515967
Snord123 66835	-1.694462629	0.197688348	-2.016429422	0.128863339
Cxcl9 17329	-1.694643742	0.004650859	-1.835921561	0.000629346
Chdh 218865	-1.695050447	0.021736002	-1.50442317	0.040781958
Zc3hav1 78781	-1.695146128	0.049980578	-1.866196689	0.013022672
Asns 27053	-1.695201945	0.279868539	-1.717057615	0.248962855
Plek2 27260	-1.695282989	0.209838265	-3.665132774	0.054624765
Efnb3 13643	-1.696536306	0.251912966	-6.462983333	0.044795474
Rps6ka1 20111	-1.696635705	0.056232287	-1.214537324	0.067544819
Ephb6 13848	-1.697853054	0.172488405	-2.268304799	0.094675925
4933411K16Rik 66765	-1.697986844	0.205449342	-2.733259285	0.071305896
Sufu 24069	-1.698496332	0.09656172	-2.266232002	0.039486462
Smarcd3 66993	-1.698605798	0.260803399	1.32887796	0.318962999
Cd200r1 57781	-1.698628571	0.271179325	-2.8202	0.173296754
Pou6f1 19009	-1.699245358	0.043839176	-1.685150973	0.027570063
Cpne3 70568	-1.699575718	0.095252243	-1.61376596	0.054642774
Lime1 72699	-1.699614116	0.003660654	-1.699614116	0.003660654
Fan1 330554	-1.700035036	0.111082196	-1.078668386	0.396820522
Nmt2 18108	-1.700169116	0.12521227	-1.281006811	0.266430708
Il12rb1 16161	-1.700304149	0.142051309	-3.044906276	0.020499896
Slc13a3 114644	-1.701917046	0.023000941	-1.829393675	0.012743083
AB124611 382062	-1.702129165	0.02732242	-1.702129165	0.02732242
Pyroxd1 232491	-1.702593675	0.000477183	-1.499016507	0.001168728
1810011O10Rik 69068	-1.703130867	0.021206549	-1.444358714	0.015145517
Plxdc1 72324	-1.703163912	0.160542737	-1.703163912	0.160542737
Vps13c 320528	-1.703653108	0.058979495	-1.576850163	0.058527471
Ptk7 71461	-1.704050886	0.218710349	1.026920947	0.480583447
Gstt3 103140	-1.704784252	0.002469838	-1.985792974	0.000162619
Pcdh7 54216	-1.705115697	0.249673789	-6.495666667	0.044433779
Acsm1 117147	-1.705233872	0.000197845	-1.628679295	0.000567933
Pgbd1 319207	-1.705639273	0.243342833	-2.629015854	0.067030285
Arhgap30 226652	-1.705676215	0.048024585	-1.705676215	0.048024585
Zfp791 244556	-1.705759401	0.263909036	-7.88976	0.029636667
Rpusd4 71989	-1.70587985	0.008618859	-1.818323758	0.004229495
9930012K11Rik 268759	-1.706003278	0.242290604	-9.21165	0.014618853
Ahrr 11624	-1.707028571	0.27016815	-2.8	0.173296754

Hhipl1 214305	-1.707028571	0.27016815	-2.8	0.173296754
TtlI8 239591	-1.707028571	0.27016815	-2.8	0.173296754
A930004D18Rik 77940	-1.708568057	0.187984678	-3.341597838	0.049363341
Xpo4 57258	-1.708593	0.29809535	-4.72156	0.173296754
Fhod3 225288	-1.70910297	0.125287711	-1.70910297	0.125287711
Gm3893 100042539	-1.709403299	0.070261985	-2.930095829	0.000351319
Coro2a 107684	-1.70968552	0.068464315	-1.406436809	0.138169071
Ptger1 19216	-1.71099352	0.060937737	-1.71099352	0.060937737
Rnf152 320311	-1.711450733	0.174924896	-1.470144008	0.160892583
Ube2cbp 70348	-1.711508961	0.024522112	-1.711508961	0.024522112
4931440F15Rik 216622	-1.711548172	0.21681309	-2.563656748	0.109738328
Zfp781 331188	-1.711573102	0.128498695	-3.086198958	0.006804607
Phtf2 68770	-1.712072458	0.065887033	-1.163442675	0.241233708
Nefh 380684	-1.712216699	0.194861962	-1.712216699	0.194861962
Spata5 57815	-1.712377294	0.175723037	-1.260883033	0.344849915
Gpc2 71951	-1.7128	0.26887049	-2.8202	0.173296754
Plcd3 72469	-1.713476514	0.146032874	-2.042980886	0.060331101
Zfp958 233987	-1.713560716	0.224903489	-1.651933176	0.232208156
Apol7a 75761	-1.714076446	0.001150119	-1.714076446	0.001150119
Myo19 66196	-1.714240271	0.047988717	-1.714240271	0.047988717
Olfm3 229759	-1.714924863	0.240084264	-1.84810098	0.2616155
Mpp2 50997	-1.715117898	0.233787796	-1.55095307	0.306183755
Ltb4r2 57260	-1.715506599	0.203984634	-1.141511102	0.417541925
Pklr 18770	-1.715592909	0.008919402	-1.578604988	0.017990658
Mpdz 17475	-1.71574472	0.176104317	-1.546700174	0.209610546
Cpeb4 67579	-1.717450638	0.24031264	-1.178880102	0.375964502
Igfals 16005	-1.717539968	2.86355E-05	-1.597617626	1.86187E-05
Fyco1 17281	-1.717549508	0.11996895	-1.570091976	0.072471932
Naf1 234344	-1.71887885	0.105540091	-1.970778971	0.048892658
6430571L13Rik 235599	-1.719195138	0.170797878	-1.292059827	0.329771645
Spats2l 67198	-1.719447509	0.200632522	-1.055876767	0.459473236
Adrb1 11554	-1.720456332	0.166799925	-3.140974485	0.016189949
Tdrd3 219249	-1.720750851	0.002889897	-1.720750851	0.002889897
Cenpj 219103	-1.720792842	0.191316928	-2.719100932	0.096306777
Fam129a 63913	-1.720952106	0.102197434	-1.741820709	0.052847403
Gsta2 14858	-1.721852257	0.085710357	-3.380983938	2.34565E-05
Tubgcp5 233276	-1.721923746	0.213207188	-3.330312925	0.083399312
Gpx8 69590	-1.722807466	0.227181455	-13.82858	1.93905E-05
Tra2a 101214	-1.723079154	0.069796084	-1.593050577	0.02841413
Akr1c6 83702	-1.725384144	0.019344402	-1.640416079	0.015250931
Arhgap27 544817	-1.725718003	0.057157444	-1.725718003	0.057157444
Lamc3 23928	-1.72830013	0.061444652	-1.72830013	0.061444652
Fam65b 193385	-1.729431459	0.099099412	-2.227265096	0.052971872
Akr1d1 208665	-1.73161085	0.014671283	-1.618159117	0.019072998
Sema6d 214968	-1.733391587	0.166293529	-1.374910106	0.235804615
Zc3h12c 244871	-1.734399745	0.276647844	1.535969564	0.275519807
C130050O18Rik 319772	-1.734908569	0.237949802	1.14606924	0.409744528
Abca3 27410	-1.736156601	0.015882812	-1.597559917	0.006295349
BC024139 271278	-1.736650368	0.012889473	-1.952377473	0.008001652
Actn1 109711	-1.737365978	0.026105076	-1.737365978	0.026105076
Eid2b 434156	-1.737659131	0.017569964	-1.737659131	0.017569964
Ptpn18 19253	-1.73788693	0.070582804	-1.48759903	0.142564231
Clec4a3 73149	-1.737913762	0.103467985	-1.383073788	0.213234617

Ankrd26 232339	-1.738221829	0.180942259	-1.460013226	0.262406953
4930430F08Rik 68281	-1.73831551	0.125734449	-2.561840353	0.047631559
Kdelc2 68304	-1.739455499	0.05318945	-1.463680732	0.106158092
Pik3ap1 83490	-1.740004305	0.117257412	-1.915513539	0.066605295
Rem1 19700	-1.74013784	0.119056117	-1.74013784	0.119056117
Cdan1 68968	-1.740420645	0.072170496	-2.098512426	0.045428982
Maoa 17161	-1.741498805	0.018612496	-1.741498805	0.018612496
Podxl2 319655	-1.741903928	0.287669356	-1.430775758	0.37678302
Pdpr 319518	-1.742638592	0.211164201	1.029063296	0.47748618
Tas1r3 83771	-1.743084174	0.208884425	-1.062358995	0.460737989
Tmie 20776	-1.743084275	0.009907419	-2.063328581	0.00241533
Nynrin 277154	-1.744630546	0.081742396	-1.333987584	0.151531093
BC030307 103220	-1.745492613	0.081398678	-1.745492613	0.081398678
Spty2d1 101685	-1.746792095	0.085761918	-1.373556401	0.175244778
Paxip1 55982	-1.747077727	0.077245671	-1.196698234	0.271502791
Lin7a 108030	-1.748256861	0.023884706	-1.897539297	0.022728792
Cd22 12483	-1.750359337	0.110888724	-1.328099769	0.233937128
2810007J24Rik 76971	-1.7506163	0.009647348	-1.538737522	0.0084537
Krit1 79264	-1.750765464	0.10834922	-1.481397862	0.099546361
Cd37 12493	-1.751773868	0.010698193	-1.601962947	0.021662221
Stat1 20846	-1.751837868	0.004728563	-1.58024103	0.004802197
Tle6 114606	-1.752781066	0.08898503	-1.844341215	0.06879483
Kif12 16552	-1.753806915	0.129965018	-3.316960282	0.007449951
Icam2 15896	-1.753914407	0.089309677	-1.368807924	0.183459367
Neurl1b 240055	-1.754128148	0.116593752	-2.108495289	0.088695485
Inha 16322	-1.755482859	0.230794647	-1.020204885	0.489224964
1200009I06Rik 74190	-1.755850976	0.046479727	-1.755850976	0.046479727
Fem1c 240263	-1.756903701	0.15676915	-1.174457979	0.355178258
Sipi 20568	-1.756913572	0.12958707	-1.540915589	0.097109963
Synpo2i 68760	-1.75696	0.25338571	-8.7848	0.047326766
Wwc1 211652	-1.757462367	0.010480433	-1.4084321	0.019302918
Igfbp6 16012	-1.757623209	0.153122711	-2.631471977	0.072947586
AI597479 98404	-1.75874351	0.109470477	-1.294501515	0.229967673
Tert 21752	-1.759544783	0.198105819	-1.759544783	0.198105819
O3far1 107221	-1.759752067	0.217844801	-5.48415	0.036928558
Cdc14b 218294	-1.759767407	0.04812941	-1.357167708	0.004135054
Caprin2 232560	-1.759940278	0.180724806	-1.913728518	0.154463118
Sema6a 20358	-1.760038628	0.000606933	-1.666743529	0.001102135
Fasn 14104	-1.760545318	0.008780127	-1.760545318	0.008780127
Ptpn7 320139	-1.760641429	0.179520222	-3.23060157	0.061792298
Gbp3 55932	-1.761071755	0.128105436	-1.162212251	0.242912755
Saa1 20208	-1.762355647	0.163308525	-3.751538053	0.02465028
Anxa9 71790	-1.762734838	0.16409575	-2.013977045	0.135283857
Tmem26 327766	-1.76464803	0.264256115	1.168103268	0.432025983
Lect1 16840	-1.766751454	0.199776926	-5.631641297	0.018448563
Wdpcp 216560	-1.768353086	0.135212242	-3.882710768	0.002318131
Il1f9 215257	-1.768684641	0.257898942	1.0485625	0.479655978
Aldh18a1 56454	-1.769106202	0.249677554	-10.16853004	0.038438126
Ids 15931	-1.771038492	0.076465443	-1.375264616	0.145808866
Ngfr 18053	-1.771597234	0.012859792	-1.771597234	0.012859792
BC005764 216152	-1.771763755	0.160702222	-3.167452019	0.049026479
Nlgn3 245537	-1.772169845	0.168803574	-1.772169845	0.168803574
D630039A03Rik 242484	-1.773553634	0.010154678	-1.42617495	0.005074572

Slc36a1 215335	-1.773746392	0.024912345	-1.376016168	0.069855468
Gm6981 629557	-1.774758159	0.122480107	-1.361343299	0.252904244
1700039E15Rik 76713	-1.77537585	0.150907079	-1.295196733	0.311944506
Susd4 96935	-1.776694004	0.219467046	1.131568473	0.388974061
Gale 74246	-1.777808618	0.025508107	-1.47994979	0.022045905
BC025920 268319	-1.778266832	0.189449736	-2.486249929	0.059958096
BC018242 235044	-1.77909193	0.007135426	-2.070642267	0.002302264
Kcnn4 16534	-1.779094089	0.145510499	-1.503228565	0.175719424
Car5a 12352	-1.78005237	8.38919E-05	-1.883161299	8.18144E-05
Gpat2 215456	-1.780208399	0.035978243	-1.491932034	0.07439302
Cdh13 12554	-1.780405662	0.189896141	-4.627291613	0.029720189
Nr4a2 18227	-1.780617361	0.217915002	-3.677262626	0.091207367
Gpr155 68526	-1.780692891	0.025921744	-1.591864552	0.053575028
Ncs1 14299	-1.783027624	0.21016136	-1.783027624	0.21016136
1810046K07Rik 69809	-1.784068219	0.02328419	-1.782590024	0.00577815
Casz1 69743	-1.784425604	0.069760203	-1.517147695	0.141175205
Fdx1 68165	-1.785307802	0.118258462	-2.455395438	0.054147816
Apba1 319924	-1.785416269	0.155405531	-2.260298314	0.099496502
Sult2a5 434264	-1.785729767	0.188653721	-2.491834775	0.079896404
Fam26f 215900	-1.786120975	0.231195524	-2.985012121	0.094640659
Adamdec1 58860	-1.786837004	0.071442825	-2.130585869	0.009190051
Eps8l1 67425	-1.786957419	0.111068199	-1.314946465	0.234929331
Sec61g 20335	-1.787097513	0.060066958	-1.518219694	0.122695623
Ttll4 67534	-1.787116331	0.06302931	-1.787116331	0.06302931
Lrtm1 319476	-1.787256287	0.002466475	-1.736227276	0.006138725
Samhd1 56045	-1.788638075	0.005584573	-1.59366214	0.004636347
Olfml3 99543	-1.789770248	0.011060672	-1.969231529	0.002086595
Neb 17996	-1.791051041	0.179076836	-1.895694497	0.181653608
BC052040 399568	-1.791539876	0.037637195	-2.199141021	0.016866593
Kif1a 16560	-1.791715806	0.123191515	-2.201129506	0.07889046
lqcj-schip1 100505386	-1.791866768	0.265913293	-1.61274826	0.354514631
1700019G17Rik 75541	-1.792424533	0.065153774	-1.792424533	0.065153774
Srek1ip1 67288	-1.792678304	0.024661008	-2.621149395	7.48605E-05
Rpap2 231571	-1.792689775	0.021087817	-1.353638436	0.047311291
Pds5b 100710	-1.792939085	0.033278237	-1.505368463	0.054081083
Tlr3 142980	-1.795142222	0.125956585	-4.358395581	0.000478307
Amigo3 320844	-1.795280245	0.039511556	-1.666626295	0.076251112
Homez 239099	-1.795943498	0.00813635	-2.349595572	0.000127976
Pdpn 14726	-1.797598448	0.239870069	-4.58098	0.070596339
Mpped2 77015	-1.797598448	0.239870069	-4.58098	0.070596339
Dab2 13132	-1.798285619	0.050986808	-1.446041379	0.084135171
Satb2 212712	-1.798461317	0.268243122	-1.430775758	0.37678302
Cluap1 76779	-1.798476472	0.008679465	-2.149192874	0.002069805
Orm2 18406	-1.799939365	0.02697974	-1.529839391	0.042455821
Dennd3 105841	-1.800680309	0.11948791	-1.298550064	0.256140286
Meis1 17268	-1.801396015	0.06159594	-1.509651788	0.125738964
Hook1 77963	-1.801914474	0.155123802	-1.681630954	0.190077218
Arhgap33 233071	-1.802331418	0.055979293	-1.515929971	0.109433913
Snora30 100217442	-1.802357914	0.179856773	-4.061967816	0.040170907
Wnt7b 22422	-1.802508571	0.256175854	-2.8	0.173296754
2900006K08Rik 72873	-1.80356067	0.191140862	-3.871375758	0.023866915
4933407H18Rik 71101	-1.80490409	0.027963012	-2.176636362	0.012859592
Wnt9b 22412	-1.806371492	0.098907422	-3.251136338	0.002767779

Orm1 18405	-1.806923654	0.021314191	-2.268375539	0.001743138
Itpkb 320404	-1.80749729	0.175347838	-1.80749729	0.175347838
Hivep3 16656	-1.808809969	0.109718861	-1.407429699	0.226110948
Slc10a5 241877	-1.809324447	0.205358072	-1.408484491	0.285847742
Asap1 13196	-1.809705872	0.029392236	-1.518447808	0.043189585
Alox12 11684	-1.809892288	0.171933905	-1.225154778	0.364078421
Dcp1a 75901	-1.811188585	0.049663242	-2.268107142	0.023559599
Nos1ap 70729	-1.812406165	0.295357991	1.170129778	0.437059136
1700028K03Rik 76421	-1.813086369	0.057166167	-1.54860358	0.116754605
Adcy7 11513	-1.813769934	0.205267889	1.053670469	0.453967044
Orai2 269717	-1.814148272	0.151280701	-1.814148272	0.151280701
Ldlr 16835	-1.814929015	0.023967452	-1.590802185	0.018414308
Tmc8 217356	-1.815162932	0.004264936	-2.130676874	0.000951787
Sntb1 20649	-1.815984541	0.166844726	-2.514374605	0.110918024
4930441014Rik 68271	-1.816891905	0.188349461	-2.555049552	0.120507484
Atp8a1 11980	-1.818224585	0.06120423	-2.171913251	0.005451997
Wdr90 106618	-1.819054919	0.02253112	-1.3370474	0.072253745
Zfhx4 80892	-1.819553779	0.12651166	-1.226824527	0.271376896
Lair1 52855	-1.820558028	0.129732432	-2.683045165	0.061346791
Zfp532 328977	-1.821098179	0.153399516	-1.275302041	0.325536689
Gbp2 14469	-1.821316942	0.011634642	-1.522840748	0.020141173
Angpt1 11600	-1.821551101	0.186933396	-2.566129524	0.119075489
Thbs1 21825	-1.822039251	0.073514296	-2.050854951	0.036971362
Slc14a1 108052	-1.823719423	0.260442814	-2.8202	0.173296754
Cys1 12879	-1.824853931	0.045752102	-2.133493644	0.015962787
Ank2 109676	-1.825816307	0.170756375	-1.825816307	0.170756375
4930528F23Rik 75178	-1.827216516	0.246949986	-3.034138293	0.085514775
Tnk1 83813	-1.827230926	0.221091992	-6.960866667	0.041230736
Lyl1 17095	-1.827679911	0.074649995	-2.200769692	0.052947244
4922501C03Rik 382090	-1.828541321	0.099245706	-1.412532591	0.206417113
Chtf18 214901	-1.829120897	0.260231664	-2.8	0.173296754
Gm216 241112	-1.829120897	0.260231664	-2.8	0.173296754
Tpm2 22004	-1.829374559	0.030792843	-1.517277902	0.041820772
Slc25a23 66972	-1.829839811	0.000570653	-1.815371176	0.000176783
Traf3ip2 103213	-1.831898005	0.011109707	-1.635086226	0.007434584
Plekkg2 101497	-1.832023823	0.000173906	-1.73173963	0.000488063
Tnnt1 21955	-1.832503123	0.021627045	-1.597413893	0.004630179
Reep6 70335	-1.832544371	0.000478985	-1.907466058	4.17706E-05
Pltp 18830	-1.832572352	0.056498999	-1.437721911	0.089476575
Atp2b2 11941	-1.835370832	0.00868041	-1.437978841	0.02255789
Ninl 78177	-1.835676892	0.084941169	-1.835676892	0.084941169
Map3k8 26410	-1.835792849	0.210605694	1.076475079	0.439904845
L3mbtl3 237339	-1.83611879	0.229613791	-3.574776786	0.124634646
Rnf186 66825	-1.837389231	0.145998984	-2.687832786	0.035898787
Rabepk 227746	-1.83798843	0.035654931	-1.877159616	0.015195491
Tcerg1 56070	-1.839723868	0.071416039	-1.683790078	0.055224753
E030010A14Rik 226040	-1.84005013	0.098206264	-1.371020224	0.203095497
Gm11517 629750	-1.84007918	0.134845996	-1.255988274	0.297047748
BC046404 192976	-1.842110588	0.247630967	-8.6404	0.070560672
Sult2a1 20859	-1.842360379	0.073791938	-2.762415626	0.016210463
Sap130 269003	-1.843564165	0.001146382	-1.694110413	0.000930468
Trim12a 76681	-1.843602834	0.008194094	-1.865645711	0.00469604
Foxp2 114142	-1.843723	0.034177607	-1.946822772	0.011633102

Rab25 53868	-1.844067643	0.156287994	-3.293979798	0.05623339
Slc7a11 26570	-1.845010453	0.116821267	-1.845010453	0.116821267
Bcs1l 66821	-1.846552863	0.002300338	-1.504172687	0.00380195
Dnm3os 474332	-1.847711178	0.280957704	-2.8202	0.173296754
Ccdc88b 78317	-1.848257557	0.008034241	-1.848257557	0.008034241
Pik3r3 18710	-1.850368723	0.189900945	-1.223054295	0.386779131
Zfp105 22646	-1.850596667	0.20440672	-9.252983333	0.014711231
Osbpl3 71720	-1.850887671	0.179849574	-6.989187469	0.008832059
Rev1 56210	-1.851211861	0.096543895	-1.800969012	0.073250162
2810002D19Rik 66457	-1.851767119	0.039272415	-2.22885046	0.023274768
P4htm 74443	-1.851786003	0.180261229	-2.752539394	0.103543379
Acvr1b 11479	-1.852088098	0.113400974	-1.786948262	0.091938875
Fam149a 212326	-1.853384446	0.000377673	-1.943371822	0.000185052
Abca8a 217258	-1.854142071	0.023609401	-1.395212591	0.066316428
Cyrr1 224405	-1.855620432	0.095991455	-2.799211487	0.031793882
Sult1c2 69083	-1.855679978	0.088552872	-2.154256339	0.040798994
Kcnt1 227632	-1.856128943	0.219190212	-7.38365	0.04272972
Myo5c 208943	-1.856128943	0.219190212	-7.38365	0.04272972
Dhx58 80861	-1.857331327	0.005563773	-2.345040091	0.000243221
Hddc3 68695	-1.858440088	0.116577332	-2.324727716	0.042602132
1700029G01Rik 66938	-1.858761134	0.037369625	-1.79278341	0.009299252
Acs1 74205	-1.858978354	0.076665951	-1.560918642	0.153850793
Ces2c 234671	-1.85916985	0.044224611	-1.518980191	0.029730475
Ms4a6d 68774	-1.859443999	0.135792921	-1.859443999	0.135792921
Mtap1a 17754	-1.860575911	0.254099771	-13.2522	0.061310843
Cyp26a1 13082	-1.862263184	0.112821641	-2.883828602	0.041884096
Fbxl21 213311	-1.86234949	0.049211106	-1.608438725	0.100735226
Esrrg 26381	-1.862793093	0.189523858	-1.534574665	0.29227622
Kcnk10 72258	-1.862893345	0.212484052	-2.100621395	0.237974883
Papd4 100715	-1.863814276	0.005873401	-1.742006247	0.0134775
Ldhd 52815	-1.863869893	4.03251E-05	-2.047448046	6.83593E-06
Rgs10 67865	-1.864981831	0.186000037	1.189154721	0.297267973
Mmab 77697	-1.865598773	0.018755272	-1.575206212	0.01918897
1700054N08Rik 73420	-1.867484357	0.243835528	-3.335808081	0.159331054
3300002I08Rik 69277	-1.86816	0.248985221	-2.76078	0.173296754
Csnk1g1 214897	-1.868416514	0.112967584	-2.164287385	0.074945611
Tlcd2 380712	-1.868645758	0.00138008	-2.038759478	4.35865E-05
Rgs14 51791	-1.869800872	0.061096291	-2.22696766	0.007600498
Fcrl1 229499	-1.870446611	0.199436708	-9.162133333	0.014939816
Fndc1 68655	-1.870874437	0.201091539	-2.192054545	0.202100697
Prl8a1 73244	-1.871846364	0.032037233	-1.565193139	0.066553055
Oasl1 231655	-1.872893739	0.005871036	-1.58305932	0.013157002
Zmiz1 328365	-1.873599994	0.141980762	-2.207384787	0.125806184
Fzd6 14368	-1.874400784	0.056226331	-1.874400784	0.056226331
Kif16b 16558	-1.875518038	0.080121564	-2.002991804	0.035286946
Csgalnact1 234356	-1.877092895	0.222788753	-4.58098	0.070596339
Oas1b 23961	-1.877888167	0.068486625	-1.574824995	0.126515023
Lynx1 23936	-1.878993253	0.08778359	-2.371926695	0.026024097
Gpr17 574402	-1.879068661	0.091150257	-1.879068661	0.091150257
Cpne7 102278	-1.88028	0.188260531	-5.48415	0.036928558
Xkr9 381246	-1.880307284	0.060772617	-1.694033207	0.020792153
Ear12 503845	-1.880464457	0.247325655	-4.112363095	0.139484904
Slc24a5 317750	-1.882911392	0.310017691	1	#DIV/0!

Kif23 71819	-1.884973952	0.181378769	-2.128806798	0.164353183
Lama3 16774	-1.885394867	0.145682001	-3.271550505	0.056060025
Ttbk2 140810	-1.885532523	0.032692283	-1.640499683	0.066560517
Gm4172 100043016	-1.885966667	0.170446566	1	#DIV/0!
Msi1 17690	-1.887635695	0.277658334	-2.76078	0.173296754
Hoxa3 15400	-1.888180595	0.15770525	-1.888180595	0.15770525
Kifap3 16579	-1.888371978	0.085705613	-1.888371978	0.085705613
Rcan2 53901	-1.890155398	0.008906396	-2.167448248	0.00535914
Vtcn1 242122	-1.891384455	0.107444097	-3.658060998	0.013210415
Dhtkd1 209692	-1.896508565	0.14353425	-1.194109919	0.3263038
Zfp558 72230	-1.900083376	0.275082594	-2.8202	0.173296754
Cyp3a41b 100041375	-1.900319956	0.115954972	-3.171261283	0.037124439
Ppapdc3 227721	-1.903170246	0.169685854	-4.062896753	0.05384268
Guca1a 14913	-1.903576112	0.097504658	-2.154517175	0.079555671
Zfp608 269023	-1.903588454	0.131447934	-1.903588454	0.131447934
Nedd9 18003	-1.903617713	0.124222449	-1.350416437	0.26588373
Ttl11 74410	-1.903757692	0.028737933	-2.080522318	0.015430475
Gins1 69270	-1.905976634	0.085455316	-1.454936561	0.174620242
Gstt1 14871	-1.906011132	0.000574614	-1.906011132	0.000574614
Mid1 17318	-1.906280546	0.057063295	-1.596166245	0.046908876
Hmgb1-rs17 628431	-1.907875443	0.086917389	-2.440175866	0.045983368
Mpz 17528	-1.909574755	0.040504288	-1.916744772	0.001456971
Fam102b 329739	-1.911957411	0.080791576	-3.235045214	0.004477426
Pde6g 18588	-1.912892293	0.110916254	-1.912892293	0.110916254
Gm13157 100041677	-1.913072102	0.120263227	-5.029012121	0.000977813
Nlrp6 101613	-1.91539941	0.000185298	-1.777207537	4.79773E-05
Cd248 70445	-1.916323028	0.003776931	-1.693859469	0.001401338
Sox4 20677	-1.916424218	0.27096672	-2.76078	0.173296754
Wfikkn2 278507	-1.916608717	0.141453136	-1.916608717	0.141453136
Cmklr1 14747	-1.916896654	0.000557681	-1.916896654	0.000557681
Itgbl1 223272	-1.917029266	0.228503045	1.103561233	0.446958035
Tmem185b 226351	-1.917172453	0.008942391	-1.917172453	0.008942391
Cyp2d40 71754	-1.917694917	0.005670131	-1.691347849	0.004873614
Rasl12 70784	-1.917799396	0.210568613	-1.870260925	0.258949734
Ap1s3 252903	-1.917964997	0.109027827	-1.917964997	0.109027827
Rhoh 74734	-1.918706376	0.14869179	-1.918706376	0.14869179
Klrk1 27007	-1.919594365	0.118722426	-1.919594365	0.118722426
Hebp2 56016	-1.920502198	0.188309218	-3.215169561	0.110411701
Ncf4 17972	-1.921113931	0.064819936	-2.067078482	0.042165435
Gm13697 668115	-1.922392518	0.090687625	-2.00076489	0.084959835
Akr1c20 116852	-1.923680465	0.004149908	-1.85976096	0.00261705
Serpina3i 628900	-1.926135102	0.207858507	-7.662133333	0.044268711
Btbd19 78611	-1.929833488	0.056094076	-1.876640071	0.060628458
Gm4951 240327	-1.929907314	0.055503849	-1.462921261	0.067295027
Tcea3 21401	-1.931334964	0.011593213	-2.365123822	0.003863126
Fam115c 232748	-1.931651429	0.242141558	-2.76078	0.173296754
Osbp10 74486	-1.931651429	0.242141558	-2.76078	0.173296754
Slc25a48 328258	-1.931686875	0.090257524	-1.931686875	0.090257524
Tle2 21886	-1.933190255	0.003986198	-1.865548328	0.00332922
Serac1 321007	-1.93353404	0.031831581	-2.30716527	0.020824065
Nlrc5 434341	-1.935898513	0.029407147	-1.935898513	0.029407147
Sult3a1 57430	-1.936284575	0.053899237	-2.317330161	0.010481406
Aox1 11761	-1.93729537	1.95195E-05	-1.993387625	5.42843E-06

Epha7 13841	-1.9382541	0.060326482	-1.532888167	0.116087487
Slc35e4 103710	-1.939226528	0.03505609	-2.232408978	0.006282127
Gm11711 100043125	-1.939318674	0.17829403	-1.108309306	0.425090047
Fads3 60527	-1.941320592	0.051677676	-1.941320592	0.051677676
Aox3 71724	-1.94209543	0.006947521	-2.14219353	0.006391864
Slc22a30 319800	-1.943353285	0.012519889	-1.735641795	0.027397847
Dclk3 245038	-1.943481033	0.011405821	-2.172171976	0.001837479
Hnmt 140483	-1.94445762	0.005270897	-1.94445762	0.005270897
Folr1 14275	-1.944741682	0.204334673	-7.73615	0.043865772
Clca1 12722	-1.945608757	0.085416324	-1.458398111	0.172628657
Rgs19 56470	-1.949021757	0.078836343	-3.348453291	0.001159828
Sec31b 240667	-1.955405907	0.082402455	-2.215190186	0.055779378
Cdca7 66953	-1.955477398	0.085635064	-1.47586734	0.17472525
Ralgps1 241308	-1.955559217	0.050904321	-1.646698649	0.097500653
Tmem107 66910	-1.9594491	0.141660828	-1.9594491	0.141660828
E530011L22Rik 320301	-1.961283333	0.170446566	1	#DIV/0!
Cyp2b13 13089	-1.961779337	0.010622332	-1.676018567	0.007938546
Col20a1 73368	-1.961828742	0.038103933	-2.251790217	0.008809095
Zfp112 57745	-1.961881667	0.177852185	-3.378637012	0.099347744
Tdp2 56196	-1.962364866	0.005180086	-2.614853779	0.000167031
Robo1 19876	-1.962415389	0.109482867	-1.394052033	0.231072164
Qrfp 227717	-1.962703401	0.168876246	-16.57554	1.22771E-05
Peg3 18616	-1.963518127	0.251523633	-1.189602278	0.402044751
Xrcc3 74335	-1.96492335	0.013348971	-1.96492335	0.013348971
Slc4a5 232156	-1.965173863	0.299667008	1	#DIV/0!
Wdr38 76646	-1.966200228	0.073733645	-1.966200228	0.073733645
Inmt 21743	-1.966721607	0.005519719	-2.738249114	1.01641E-05
1700012D14Rik 75479	-1.968120319	0.196600626	-1.183107182	0.414958471
Hist1h4b 326620	-1.96878985	0.192508438	-4.117133333	0.090539541
Btbd3 228662	-1.969291979	0.083209168	-2.473441692	0.059688336
Pdlim3 53318	-1.969669457	0.301680421	-2.8	0.173296754
Lss 16987	-1.971111983	0.009472095	-1.673752472	0.0039813
Rgma 244058	-1.971401071	0.088005991	-1.212149433	0.291142831
Mmp23 26561	-1.973429346	0.088221507	-1.973429346	0.088221507
Mthfd2 17768	-1.97509	0.182398485	-9.87545	0.017130116
S1pr4 13611	-1.976528171	0.051334967	-1.660055799	0.104884137
Epb4.1l4a 13824	-1.978898648	0.185498662	-3.003528484	0.128782899
Zfp871 208292	-1.978923341	0.108941014	-1.706340518	0.057021707
Gm8989 668128	-1.979166667	0.170446566	1	#DIV/0!
Ttc30a1 78802	-1.979417202	0.131795938	-1.511053308	0.257287526
Spopl 76857	-1.979678572	0.113084143	-1.421556615	0.239062196
Usp53 99526	-1.985167572	0.188632987	-2.959471574	0.148386268
Spib 272382	-1.985503631	0.031925078	-1.985503631	0.031925078
Ngb 64242	-1.986472724	0.212243368	-2.024513774	0.263278926
Spic 20728	-1.986515767	0.143173298	-2.758874541	0.092509394
Lrfn4 225875	-1.987138839	0.130700223	-1.934315561	0.066302254
Pcp4l1 66425	-1.988561066	0.001965512	-1.988561066	0.001965512
Kctd18 51960	-1.988912379	0.021134536	-2.285608541	0.002039176
1700112E06Rik 76633	-1.989886291	0.213433769	-1.714700598	0.281517273
Met 17295	-1.990124393	0.018018379	-1.990124393	0.018018379
Ccdc102a 234582	-1.990333019	0.068318823	-3.101004576	0.018122458
Snca 20617	-1.997377461	0.098017793	-1.449965718	0.203310794
Al480653 268880	-1.997884105	0.070172398	-3.236555486	0.015861588

Lgals1 16852	-1.998289322	0.036164014	-2.199159318	0.000635477
Mfsd7b 226844	-1.999057169	0.181457279	-1.310987214	0.365074041
Zfp81 224694	-2	0.293589278	1	#DIV/0!
Ckap2l 70466	-2	0.293589278	1	#DIV/0!
Slc29a2 13340	-2.000787317	0.056326076	-1.627865486	0.113646452
Gm8221 666661	-2.001053555	0.223204954	-6.23615	0.093645599
Spin2 278240	-2.001053555	0.223204954	-6.23615	0.093645599
Nkapl 66707	-2.001053555	0.223204954	-6.23615	0.093645599
Zfp169 67911	-2.002286104	0.058246171	-4.048670762	0.000959555
Vnn1 22361	-2.008079108	0.001146249	-2.008079108	0.001146249
Myh11 17880	-2.009174895	0.181226041	-1.171690729	0.264743498
Trim68 101700	-2.009378258	0.162622104	-3.680625097	0.079834633
1700037C18Rik 73261	-2.011255126	0.087303242	-1.494317989	0.178226543
Lsamp 268890	-2.011313771	0.191665382	-7.662133333	0.044268711
Cenpo 52504	-2.011623963	0.013237346	-2.011623963	0.013237346
Bex4 406217	-2.012102784	0.112912358	-2.012102784	0.112912358
Ugt1a5 394433	-2.014064327	0.004578147	-2.396213952	0.001021307
Syt1 20979	-2.014198718	0.115157798	-2.200400113	0.093994577
Ttl13 101100	-2.018480767	0.112449862	-1.852159739	0.148833313
Mad2l1 56150	-2.01916291	0.156530084	-4.476555556	0.052460665
Nkain4 58237	-2.020822946	0.194485374	-8.0388	0.046362285
Pcdh17 219228	-2.021583677	0.100974076	-4.249323052	0.013888815
Ltbp3 16998	-2.02340284	0.025329882	-2.242701981	0.003267607
1700010I14Rik 66931	-2.023936709	0.212274449	-1.935026828	0.275417362
C1rb 667277	-2.024719533	0.16508133	-3.410627532	0.095393078
Slc26a2 13521	-2.025054571	0.193616745	-8.055633333	0.046112137
Tgfb3 21809	-2.026450382	0.071545744	-1.648573331	0.145855148
Olfm1 56177	-2.030548711	0.040911657	-2.030548711	0.040911657
Rif1 51869	-2.03191842	0.196625011	-1.684453115	0.235002086
S100a6 20200	-2.03352718	0.183640662	-3.684652689	0.031325192
Pag1 94212	-2.035909972	0.132017906	-1.378781325	0.284084379
Srebf1 20787	-2.03682026	0.016377001	-2.056418538	0.00947129
L1cam 16728	-2.039616574	0.115699646	-1.520561372	0.236769574
Tsc22d1 21807	-2.042525523	0.015363949	-1.836039932	0.032179597
Zfp955a 77652	-2.044476742	0.077959351	-1.718607334	0.133587628
Cd53 12508	-2.046491201	0.019525816	-2.370732748	0.001243303
Gstcd 67553	-2.048269349	0.111456195	-1.505571555	0.231562551
Rnls 67795	-2.04835811	0.119269418	-4.65400259	0.021961238
3010026O09Rik 68067	-2.04887478	0.003769115	-2.25135025	0.000555185
Pcyt1b 236899	-2.049118414	0.216296019	-5.7948	0.078760145
Prpsap2 212627	-2.050845031	0.017526669	-2.338380968	0.008697004
Fam84a 105005	-2.051522111	0.120673337	-2.051522111	0.120673337
Cenpn 72155	-2.055175254	0.172940789	-6.404816667	0.044430303
Tbc1d19 67249	-2.055194718	0.183033632	-4.673019335	0.050653644
Ttn 22138	-2.056108832	0.19000698	-8.179166667	0.047131331
Flrt1 396184	-2.056474071	0.045820433	-2.449285622	0.005291819
Fam70b 272465	-2.056640928	0.260634069	-2.8	0.173296754
Gm12250 631323	-2.056739856	0.07654734	-3.752668649	0.012987395
ORF63 224419	-2.060872553	0.259850238	-2.8202	0.173296754
Trerf1 224829	-2.062826416	0.115926538	-3.182952324	0.045975943
Prkar2b 19088	-2.068438279	0.171659036	-6.44615	0.04497135
Ypel1 106369	-2.068885773	0.189790204	-1.151738686	0.425983244
Kdm4c 76804	-2.070343092	0.061898637	-1.283944599	0.17736405

Pcdhb22 93893	-2.071064144	0.170222954	-6.454333333	0.043911777
Tmem163 72160	-2.071449969	0.164004728	-2.071449969	0.164004728
Ttc39a 230603	-2.07169007	0.103797613	-2.07169007	0.103797613
Muc1 17829	-2.071895575	0.096327184	-2.752179715	0.067447689
Plscr2 18828	-2.074604712	0.000858678	-2.074604712	0.000858678
Zfp354a 21408	-2.075368581	0.032701521	-2.075368581	0.032701521
Lax1 240754	-2.07672958	0.126778717	-14.79178333	1.41502E-05
Syt7 54525	-2.079430312	0.034655335	-2.079430312	0.034655335
Auts2 319974	-2.080084616	0.126317417	-2.080084616	0.126317417
Trim30a 20128	-2.083036579	0.092618584	-1.444691243	0.178694254
Paqr6 68957	-2.084327169	0.168965258	-6.495666667	0.044433779
Kdm3a 104263	-2.084581251	0.034339365	-2.404310652	0.008793082
Raet1d 56554	-2.085802437	0.029168041	-1.695898315	0.042700423
G630025P09Rik 74341	-2.090524193	0.249174852	-21.44690607	0.093588468
2010001M06Rik 69812	-2.09431784	0.015741681	-2.335115428	0.004596932
Kazn 71529	-2.095624333	0.035878602	-2.095624333	0.035878602
Mkx 210719	-2.096343378	0.125877407	-4.329287879	0.039981992
Oas2 246728	-2.099276916	0.013752827	-2.099276916	0.013752827
Mia2 338320	-2.101707552	0.094854468	-2.176878891	0.066598478
Gamt 14431	-2.10292548	0.005125387	-2.47133404	0.002960401
Ccdc14 239839	-2.105362353	0.182612366	-14.91298333	0.025273478
Spag1 26942	-2.106373293	0.187648848	-2.090787879	0.212529809
Itgal 16408	-2.106568255	0.066908872	-2.106568255	0.066908872
Kcnab3 16499	-2.108265924	0.136081663	-1.304556138	0.302249255
Ankrd37 654824	-2.109369309	0.105947395	-2.109369309	0.105947395
Mfsd4 213006	-2.109381504	0.166326609	-1.632541037	0.217964699
Mtap1b 17755	-2.109435686	0.182789127	-8.3913	0.047323967
4930452B06Rik 74430	-2.109789858	0.188762108	-1.137469949	0.432079999
BC013712 230787	-2.111102036	0.051373229	-4.589794721	8.08424E-05
Rpr1 19783	-2.111690895	0.046109325	-2.111690895	0.046109325
Trim14 74735	-2.118633609	0.020142815	-2.566413	0.01328841
Hdac9 79221	-2.11914261	0.211056266	-3.925	0.173296754
Ttc12 235330	-2.119797951	0.101973574	-3.548816479	0.043809509
Cd5 12507	-2.121883366	0.180385446	-8.440816667	0.046554152
Prg4 96875	-2.122054491	0.000738794	-2.562681868	9.52412E-05
Tmprss9 432478	-2.123937143	0.204963277	-6.194816667	0.093788939
Rps6kl1 238323	-2.124455432	0.233050069	-1.29416451	0.382135102
Ccdc126 57895	-2.125380149	0.117443208	-4.211948026	0.039415209
A930015D03Rik 77810	-2.126211544	0.017054522	-2.126211544	0.017054522
C530005A16Rik 654318	-2.127449592	0.185714947	-10.76386667	0.042008874
H2-Q1 15006	-2.127710849	0.065367474	-2.127710849	0.065367474
Ccdc67 234964	-2.129077962	0.217007669	-1.151755433	0.445938962
Fgd1 14163	-2.12958694	0.123752242	-1.33425067	0.2645575
Dimt1 66254	-2.130326203	0.125645262	-3.794636269	0.058410186
Matn2 17181	-2.130439108	0.156937792	-2.392902078	0.098232087
Spag8 433700	-2.131711453	0.052958369	-2.535591761	0.010005017
Fam33a 66140	-2.132012994	0.093481736	-4.213442893	0.021945248
Ift122 81896	-2.133268831	0.045319142	-2.133268831	0.045319142
Zfp882 382019	-2.133537499	0.010513446	-1.556657416	0.026382135
Zfp641 239652	-2.135885189	0.074601683	-1.572050156	0.144275213
Bfsp1 12075	-2.138108571	0.203349305	-6.23615	0.093645599
Pcdh18 73173	-2.138108571	0.203349305	-6.23615	0.093645599
Cpxm2 55987	-2.138650578	0.226980942	1.287350529	0.356134013

Saa2 20209	-2.140480969	0.123389169	-6.094008494	0.01856575
Fgl2 14190	-2.1428024	0.149982927	-1.218889544	0.347562276
Map3k15 270672	-2.142966048	0.127044585	-2.695412121	0.103958819
Gm5901 545989	-2.143887778	0.284786919	1	#DIV/0!
Tmem221 434325	-2.145023279	0.101128193	-2.145023279	0.101128193
Dct 13190	-2.14543621	0.072780038	-3.60068269	0.005941273
Pdzd2 68070	-2.145761219	0.192743788	-2.528222571	0.213970332
Ms4a8a 64381	-2.148161588	0.203769197	-3.245448485	0.128662
Fcgr1 14129	-2.149051975	0.022208125	-3.230967981	0.0015659
Pvrl4 71740	-2.151133523	0.026763451	-1.799882127	0.048905899
Trip11 109181	-2.154039425	0.189410248	-1.081750489	0.455876868
Dsg1c 211924	-2.157538549	0.086961662	-3.231232245	0.046535676
Fam55b 78252	-2.157615528	0.015993626	-2.157615528	0.015993626
Bspry 192120	-2.15779791	0.164202615	-4.56078	0.070574133
Plscr4 235527	-2.158349577	0.059126306	-1.697466591	0.118072188
Atp7b 11979	-2.158909876	0.07792219	-1.632178033	0.1590466
Nek1 18004	-2.159487014	0.151040841	-5.381832196	0.052347267
Cyp2d11 545123	-2.159876561	0.02155677	-1.505090398	0.059304487
Vmn2r29 76229	-2.159933081	0.239044833	-4.6202	0.07056113
Rspo1 192199	-2.160284926	0.084767199	-3.443237573	0.0375981
Snhg11 319317	-2.162029369	0.120578338	-3.750113236	0.053068718
Cyp4f41-ps 77875	-2.163199384	0.163339522	-4.58098	0.070596339
Slc44a3 213603	-2.165217796	0.047649818	-3.189564283	0.017879057
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Zfp78 330463	-2.169777899	0.092045824	-3.046232117	0.052673028
Col27a1 373864	-2.169968924	0.029790369	-1.739693855	0.041724487
Golt1b 66964	-2.170022613	0.007621502	-2.143668492	0.00705986
Akap17b 338351	-2.17307714	0.13639866	-1.421311974	0.293279282
Apol11b 328563	-2.175857684	0.204988494	-1.72578057	0.278974436
Cnih2 12794	-2.176769117	0.10753859	-3.194032296	0.046780431
Sned1 208777	-2.177176195	0.054408035	-1.686454286	0.102388555
Xpnp3 321003	-2.178364004	0.032212946	-2.499142486	0.017295365
Kif26a 668303	-2.17965385	0.097660755	-2.17965385	0.097660755
Abcc4 239273	-2.182880837	0.027511359	-2.182880837	0.027511359
Mvk 17855	-2.186118721	0.005084855	-2.186118721	0.005084855
5830403L16Rik 240817	-2.186303598	0.194725898	-6.60118	0.089542423
9530091C08Rik 320440	-2.191158574	0.155337017	-3.772567698	0.096195335
Pgap1 241062	-2.194541037	0.184609057	-6.8996	0.070566833
Mcf2l 17207	-2.196306932	0.194332322	-6.56078	0.089099836
Dbn1 72185	-2.201708571	0.149853351	-6.42165	0.04426109
Rundc2a 385605	-2.201708571	0.149853351	-6.42165	0.04426109
Lck 16818	-2.202222352	0.071127357	-2.997788186	0.046481411
Traf3ip3 215243	-2.203647852	0.082646632	-4.800038482	0.005589043
Fdps 110196	-2.205405452	0.03107761	-1.648206617	0.052114915
Osr1 23967	-2.205623086	0.266859735	-3.925	0.173296754
Ccdc112 240261	-2.206415744	0.192366027	-6.6202	0.087728953
1500031L02Rik 66994	-2.209785183	0.048063549	-2.209785183	0.048063549
Trpc3 22065	-2.210108571	0.149695126	-6.44615	0.04497135
Shank2 210274	-2.210962063	0.030942987	-2.354073878	0.005347169
Fbxl7 448987	-2.212914286	0.148235538	-6.454333333	0.043911777
Mefv 54483	-2.212914286	0.148235538	-6.454333333	0.043911777
Agtpbp1 67269	-2.216974635	0.022794178	-3.869968394	0.000433549
Gm5113 330503	-2.220127798	0.21795853	-10.875	0.093289779

Hoxb2 103889	-2.22126845	0.056960865	-1.726179098	0.111569177
Sbsn 282619	-2.222366394	0.043898134	-1.859152332	0.089917904
Lrrcc1 71710	-2.222805202	0.120304071	-4.96812931	0.039290251
Trdmt1 13434	-2.222831424	0.00557498	-2.457412942	0.000201519
Cytip 227929	-2.225197518	0.080495503	-1.717169224	0.16500186
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Ptch2 19207	-2.23042676	0.083024142	-1.612564007	0.167745938
Csdc2 105859	-2.232032051	0.110114588	-2.629015854	0.067030285
Grhl2 252973	-2.232568214	0.198201397	-6.95765	0.094047919
Dok4 114255	-2.235081162	0.00864061	-1.924495238	0.025862351
Ern1 78943	-2.236054103	0.03825844	-1.473007062	0.095278674
Abcb1a 18671	-2.236545052	0.035130182	-1.539606843	0.094669528
Zswim3 67538	-2.23683097	0.131381789	-2.178440208	0.179699967
Bard1 12021	-2.241874286	0.194723882	-3.925	0.173296754
Acta2 11475	-2.242194257	0.239088122	-1.058653504	0.437113281
Mterfd3 74238	-2.247011366	0.106793656	-1.495670894	0.223101858
Cd274 60533	-2.249948892	0.082636699	-2.536606624	0.06782142
Arap2 212285	-2.250182863	0.032373611	-2.480900876	0.035830014
Lrrc8e 72267	-2.250939227	0.093002716	-1.667235359	0.192078613
Ace 11421	-2.253230542	0.063772244	-2.207376425	0.078825309
Cyp2a22 233005	-2.254935741	0.002294043	-2.093057153	0.005736526
Gm14446 667373	-2.264285714	0.193051427	-3.925	0.173296754
Cyp51 13121	-2.267493286	0.071704615	-1.486463048	0.012858179
Casq1 12372	-2.274313339	0.15693707	-16.1991	0.023548285
Bbs5 72569	-2.274766101	0.100028865	-4.063318182	0.045249537
Sspo 243369	-2.278171787	0.143955391	-3.221509091	0.127882662
41155 24050	-2.278457143	0.191540287	-3.9746	0.173296754
Zfp867 237775	-2.280943652	0.033978584	-2.280943652	0.033978584
Zranb3 226409	-2.283243483	0.071929572	-4.446816333	0.017615005
Socs1 12703	-2.283504809	0.207861329	1.060234708	0.471507944
Fbln7 70370	-2.287522151	0.052558468	-1.657367521	0.063478851
Gpr65 14744	-2.28800522	0.126583012	-2.264525909	0.158102501
Wdr27 71682	-2.291317238	0.1242064	-1.560752707	0.260403166
Sox10 20665	-2.292313107	0.221828508	-3.925	0.173296754
Atf7 223922	-2.294592172	0.072279564	-1.716996305	0.145885919
Slain1 105439	-2.297939911	0.193498082	-4.6202	0.07056113
Vps13a 271564	-2.298047956	0.069493624	-2.736379933	0.022880753
B4galnt3 330406	-2.298762119	0.111316826	-2.862593939	0.100767863
6030446N20Rik 338363	-2.299689913	0.010252773	-2.582901086	0.001539078
Gmpr 66355	-2.303529838	0.037745975	-3.567566147	0.01203082
Setmar 74729	-2.305286428	0.020058625	-1.954270207	0.037299787
Bmpr2 12168	-2.305337918	0.101938088	-3.083674272	0.078319454
AU021092 239691	-2.305483375	0.057350455	-3.172195126	0.036628887
Ifi203 15950	-2.306026725	0.04570083	-2.34961222	0.00248706
Plekhn1 231002	-2.307429899	0.104565907	-4.547924695	0.029978483
Nsdhl 18194	-2.30950207	0.007003017	-2.040982448	0.016026504
Slc2a4 20528	-2.309737456	0.210498672	-4.30878	0.173296754
Lrrc49 102747	-2.313601113	0.118077465	-9.203466667	0.015035698
Adam32 353188	-2.313954577	0.14700288	-16.48145	0.019808349
Pram1 378460	-2.315024568	0.078638192	-1.639973789	0.152831797
Gm13695 545432	-2.316412378	0.102767807	-1.998898774	0.136819957
Akap12 83397	-2.322773165	0.054065207	-3.401457717	0.028422563
Zfp931 353208	-2.323431231	0.187460159	-4.56078	0.070574133

Magee1 107528	-2.326533015	0.206301278	1.085043178	0.458319617
Aoc2 237940	-2.32929831	0.071807351	-2.336813633	0.075249344
BC068157 73072	-2.330602604	0.05302311	-4.716460667	0.001683677
Atp6v0e2 76252	-2.33114795	0.087076513	-2.33114795	0.087076513
Prr5l 72446	-2.331723794	0.016698214	-2.331723794	0.016698214
Acsbg1 94180	-2.332142513	0.188677129	-7.267966667	0.093239512
Kcnc1 16500	-2.332860712	0.139146574	-2.332860712	0.139146574
Pwpp2b 101631	-2.333082812	0.003198591	-2.868934676	0.000410342
Epb4.9 13829	-2.334786788	0.047115714	-1.795753715	0.084104014
Praf2 54637	-2.335358464	0.002319478	-1.9518596	0.004556606
Htra1 56213	-2.335927869	0.09785167	-3.541561269	0.063400858
Glrp1 14659	-2.336891809	0.146206415	-9.296116667	0.038064488
Bmp2k 140780	-2.339989054	0.039105669	-2.863598716	0.013143338
Nr1d1 217166	-2.340078178	0.002919911	-3.200631657	6.64799E-05
Gna14 14675	-2.340912973	0.04840399	-3.744955172	0.009079915
Pilrb1 170741	-2.341334425	0.104809068	-1.635532836	0.219157359
Cyp2a5 13087	-2.341902722	0.010276344	-2.94543875	0.0058087
Tmem150b 330460	-2.34237074	0.061529096	-4.975806489	0.003162203
Lrp2bp 67620	-2.343530739	0.140521033	-1.359327497	0.314310072
Reep1 52250	-2.344121674	0.018943107	-2.616726404	0.007791565
Mtr 238505	-2.34449241	0.007606112	-1.682788568	0.012534845
Olfr1393 258463	-2.344960647	0.109557264	-8.933166667	0.013413549
Adap2 216991	-2.348915085	0.033034252	-1.88824872	0.058725951
A930005I04Rik 403174	-2.349957029	0.201173836	1.02215228	0.489259865
Xaf1 327959	-2.350170288	0.00301564	-2.069710316	0.002940241
Cdc14a 229776	-2.35105154	0.090543249	-4.101087113	0.043493317
Trim30d 209387	-2.351239807	0.121285403	-4.429154902	0.063880629
Nbeal1 269198	-2.355192665	0.099723943	-1.624263637	0.207971345
Irs3 16369	-2.356170096	0.088661358	-1.641023522	0.180096118
Csf1 12977	-2.356562165	0.005205422	-2.122203276	0.012120914
Gpr64 237175	-2.357703267	0.025337065	-3.99730858	0.003228156
2010002N04Rik 106878	-2.362514433	0.0775566	-1.664763609	0.149692992
A130022J15Rik 101351	-2.364690476	0.058930027	-2.547954885	0.012114491
Kcnq1ot1 63830	-2.36901595	0.0640468	-2.613756821	0.027203788
Tmem91 320208	-2.369262939	0.135524133	-7.38365	0.04272972
Bank1 242248	-2.371930395	0.074313325	-4.337411179	0.02766758
2810422O20Rik 69962	-2.374070307	0.004490514	-2.039998079	0.002968709
Ogn 18295	-2.379630401	0.152766303	-8.40118	0.035583449
Cenpm 66570	-2.38506934	0.000119107	-2.569822217	4.24492E-05
1700029J11Rik 76426	-2.38548	0.181585296	-6.95765	0.094047919
Serpine1 18787	-2.387113871	0.152626978	-1.279998358	0.35286604
Ttf2 74044	-2.393359629	0.055924349	-3.909889821	0.010532407
Ddx60 234311	-2.396313184	0.050310908	-2.886180831	0.01258836
Zfp709 236193	-2.398352187	0.078259377	-2.398352187	0.078259377
Efemp2 58859	-2.402004797	0.014259857	-1.979583226	0.01599175
Psat1 107272	-2.402130058	0.111106304	-9.555633333	0.016606094
Rab19 19331	-2.405064509	0.105933962	-9.162133333	0.014939816
Armcx6 278097	-2.408661177	0.04900158	-2.408661177	0.04900158
Calml4 75600	-2.408744957	0.137001188	-3.218533333	0.075309191
Prrt3 210673	-2.412520582	0.110120093	-9.596966667	0.016642218
Dapp1 26377	-2.414528582	0.036843468	-2.414528582	0.036843468
H2-T22 15039	-2.417270465	0.112836013	-1.874584596	0.116901717
Igsf10 242050	-2.41871422	0.068111909	-4.233000208	0.028188468

Zfp418 232854	-2.419048857	0.036910115	-4.542719147	0.005528153
Adc 242669	-2.41927444	0.047564015	-1.83391025	0.082981207
Rsph1 22092	-2.420333288	0.104403332	-9.2203	0.014927457
Tbc1d4 210789	-2.428263101	0.025789195	-2.428263101	0.025789195
Snaaip 67847	-2.430207431	0.169529955	-1.784568438	0.237848562
Awat2 245532	-2.431125758	0.017135631	-2.431125758	0.017135631
Lbx2 16815	-2.432135971	0.118898654	-4.18746398	0.074433504
Mfsd2b 432628	-2.434748567	0.11368475	-4.224792929	0.068876081
Stap1 56792	-2.436005904	0.21603094	-2.76078	0.173296754
Mphosph6 68533	-2.441450831	0.036320897	-4.333676353	0.00219841
Naip1 17940	-2.442153333	0.147460321	-7.63538	0.025880344
Ehf 13661	-2.444290267	0.128208988	-17.40978333	0.017225558
Itпка 228550	-2.444621122	0.075681408	-1.306117158	0.083688436
Chmp4c 66371	-2.446414369	0.15887028	-2.230407828	0.191047562
Hs3st6 328779	-2.447205208	0.031366957	-1.970747526	0.056708232
Gm14137 623781	-2.453769305	0.120620667	-3.41653147	0.056204377
Acot3 171281	-2.460725044	0.000123639	-2.460725044	0.000123639
Cyb5d1 327951	-2.464340245	0.039804388	-2.464340245	0.039804388
Hemgn 93966	-2.467316667	0.170446566	1	#DIV/0!
Il9r 16199	-2.467316667	0.170446566	1	#DIV/0!
Gsg1 14840	-2.467316667	0.170446566	1	#DIV/0!
Phyhip 105653	-2.467316667	0.170446566	1	#DIV/0!
4930503E24Rik 75030	-2.467316667	0.170446566	1	#DIV/0!
Wbscr17 212996	-2.467316667	0.170446566	1	#DIV/0!
P2rx5 94045	-2.467316667	0.170446566	1	#DIV/0!
Pla2g3 237625	-2.467316667	0.170446566	1	#DIV/0!
Aox3l1 213043	-2.467316667	0.170446566	1	#DIV/0!
2900060B14Rik 68204	-2.467316667	0.170446566	1	#DIV/0!
AY358078 278676	-2.467316667	0.170446566	1	#DIV/0!
Gpr81 243270	-2.467316667	0.170446566	1	#DIV/0!
Cnpy1 269637	-2.467316667	0.170446566	1	#DIV/0!
E030011O05Rik 319859	-2.467316667	0.170446566	1	#DIV/0!
Cryaa 12954	-2.467316667	0.170446566	1	#DIV/0!
Kcnh4 380728	-2.467316667	0.170446566	1	#DIV/0!
Gm5741 436049	-2.467316667	0.170446566	1	#DIV/0!
Clic6 209195	-2.467316667	0.170446566	1	#DIV/0!
Upk1a 109637	-2.467316667	0.170446566	1	#DIV/0!
Chst10 98388	-2.467316667	0.170446566	1	#DIV/0!
4931408C20Rik 210940	-2.467316667	0.170446566	1	#DIV/0!
Got1l1 76615	-2.467316667	0.170446566	1	#DIV/0!
E330020D12Rik 626058	-2.467316667	0.170446566	1	#DIV/0!
Kcnh3 16512	-2.467316667	0.170446566	1	#DIV/0!
Asb14 142687	-2.467316667	0.170446566	1	#DIV/0!
Krtap3-3 66380	-2.467316667	0.170446566	1	#DIV/0!
Glra2 237213	-2.467316667	0.170446566	1	#DIV/0!
1600029I14Rik 69797	-2.467316667	0.170446566	1	#DIV/0!
Asf1b 66929	-2.467316667	0.170446566	1	#DIV/0!
Rhebl1 69159	-2.467316667	0.170446566	1	#DIV/0!
Tmc3 233424	-2.467316667	0.170446566	1	#DIV/0!
Gpr115 78249	-2.467316667	0.170446566	1	#DIV/0!
9930013L23Rik 80982	-2.467316667	0.170446566	1	#DIV/0!
9030612E09Rik 74530	-2.467316667	0.170446566	1	#DIV/0!
Bbs12 241950	-2.467316667	0.170446566	1	#DIV/0!

Alox12e 11685	-2.467316667	0.170446566	1	#DIV/0!
Pak7 241656	-2.467316667	0.170446566	1	#DIV/0!
Cd69 12515	-2.467316667	0.170446566	1	#DIV/0!
Esyt3 272636	-2.467316667	0.170446566	1	#DIV/0!
Ebf3 13593	-2.467316667	0.170446566	1	#DIV/0!
Dkk2 56811	-2.467316667	0.170446566	1	#DIV/0!
Wfdc12 192200	-2.467316667	0.170446566	1	#DIV/0!
Klk10 69540	-2.467316667	0.170446566	1	#DIV/0!
Nova1 664883	-2.467316667	0.170446566	1	#DIV/0!
Al427809 381524	-2.467316667	0.170446566	1	#DIV/0!
1700019D03Rik 67080	-2.467316667	0.170446566	1	#DIV/0!
Mdga2 320772	-2.467316667	0.170446566	1	#DIV/0!
Ankrd53 75305	-2.467316667	0.170446566	1	#DIV/0!
Casc1 320662	-2.467316667	0.170446566	1	#DIV/0!
9130008F23Rik 71583	-2.467316667	0.170446566	1	#DIV/0!
BY080835 434436	-2.467316667	0.170446566	1	#DIV/0!
Hrh2 15466	-2.467316667	0.170446566	1	#DIV/0!
Aqp7 11832	-2.467316667	0.170446566	1	#DIV/0!
Bend5 67621	-2.467316667	0.170446566	1	#DIV/0!
Txlnb 378431	-2.467316667	0.170446566	1	#DIV/0!
Butr1 192194	-2.467316667	0.170446566	1	#DIV/0!
9930111J21Rik2 245240	-2.467316667	0.170446566	1	#DIV/0!
Ercc6l 236930	-2.467316667	0.170446566	1	#DIV/0!
C030034L19Rik 320088	-2.467316667	0.170446566	1	#DIV/0!
Klre1 243655	-2.467316667	0.170446566	1	#DIV/0!
Nxph3 104079	-2.467316667	0.170446566	1	#DIV/0!
Klhl30 70788	-2.467316667	0.170446566	1	#DIV/0!
Ffar2 233079	-2.467316667	0.170446566	1	#DIV/0!
Rnf151 67504	-2.467316667	0.170446566	1	#DIV/0!
2900011O08Rik 67254	-2.467316667	0.170446566	1	#DIV/0!
Gm5434 432649	-2.467316667	0.170446566	1	#DIV/0!
Kcnrgl 328424	-2.467316667	0.170446566	1	#DIV/0!
Asxl3 211961	-2.467316667	0.170446566	1	#DIV/0!
Tmod4 50874	-2.467316667	0.170446566	1	#DIV/0!
Akap4 11643	-2.467316667	0.170446566	1	#DIV/0!
4930519F09Rik 114676	-2.467316667	0.170446566	1	#DIV/0!
Ankrd34b 218440	-2.467316667	0.170446566	1	#DIV/0!
Nkpd1 69547	-2.467316667	0.170446566	1	#DIV/0!
4930415O20Rik 73863	-2.467316667	0.170446566	1	#DIV/0!
Prss12 19142	-2.467316667	0.170446566	1	#DIV/0!
Xlr3c 22446	-2.467316667	0.170446566	1	#DIV/0!
Vwde 232585	-2.467316667	0.170446566	1	#DIV/0!
Mia1 12587	-2.467316667	0.170446566	1	#DIV/0!
Asb15 78910	-2.467316667	0.170446566	1	#DIV/0!
Mpl 17480	-2.467316667	0.170446566	1	#DIV/0!
Krt17 16667	-2.467316667	0.170446566	1	#DIV/0!
Asprv1 67855	-2.467316667	0.170446566	1	#DIV/0!
Slc1a7 242607	-2.467316667	0.170446566	1	#DIV/0!
Adora3 11542	-2.467316667	0.170446566	1	#DIV/0!
Stk32b 64293	-2.467316667	0.170446566	1	#DIV/0!
Fam181a 544888	-2.467316667	0.170446566	1	#DIV/0!
Dnahc10 56087	-2.467316667	0.170446566	1	#DIV/0!
Rims4 241770	-2.467316667	0.170446566	1	#DIV/0!

Ltk 17005	-2.467316667	0.170446566	1	#DIV/0!
Zdhhc2 70546	-2.469109987	0.128219642	-7.694816667	0.043805315
Tmem132a 98170	-2.47305614	0.004034079	-2.47305614	0.004034079
Ifit2 15958	-2.475630438	0.040072871	-2.475630438	0.040072871
Rest 19712	-2.479656116	0.168970511	-2.089837133	0.111438353
Sema3b 20347	-2.481874951	0.116927513	-1.56427143	0.249669356
Nol3 78688	-2.48611173	0.006129612	-2.262502597	0.013511875
Slc4a3 20536	-2.487720157	0.048737542	-1.97204547	0.098007258
BC048644 407789	-2.492585253	0.033972385	-1.614372315	0.09438735
Skap1 78473	-2.499185393	0.089617817	-1.794873935	0.185152809
Serpina3f 238393	-2.499977956	0.004690186	-2.846016578	0.0002449
Prkag3 241113	-2.5	0.170446566	1	#DIV/0!
Als2cr12 108812	-2.5	0.170446566	1	#DIV/0!
Rapsn 19400	-2.5	0.170446566	1	#DIV/0!
Zfp389 100038371	-2.5	0.170446566	1	#DIV/0!
Wasf3 245880	-2.5	0.170446566	1	#DIV/0!
Gm13152 195531	-2.5	0.170446566	1	#DIV/0!
Slc1a6 20513	-2.5	0.170446566	1	#DIV/0!
Kcnq4 60613	-2.5	0.170446566	1	#DIV/0!
A930013F10Rik 68074	-2.5	0.170446566	1	#DIV/0!
Zfp677 210503	-2.5	0.170446566	1	#DIV/0!
9130024F11Rik 329160	-2.5	0.170446566	1	#DIV/0!
Lrch2 210297	-2.5	0.170446566	1	#DIV/0!
Sult4a1 29859	-2.5	0.170446566	1	#DIV/0!
Ankrd61 66729	-2.5	0.170446566	1	#DIV/0!
Diras2 68203	-2.5	0.170446566	1	#DIV/0!
Cdh6 12563	-2.5	0.170446566	1	#DIV/0!
4933427E11Rik 66769	-2.5	0.170446566	1	#DIV/0!
Syn2 20965	-2.5	0.170446566	1	#DIV/0!
Gm410 242037	-2.5	0.170446566	1	#DIV/0!
Vmn2r57 269902	-2.5	0.170446566	1	#DIV/0!
9230116N13Rik 320054	-2.5	0.170446566	1	#DIV/0!
Begain 380785	-2.5	0.170446566	1	#DIV/0!
1700019N12Rik 67077	-2.5	0.170446566	1	#DIV/0!
Zfp202 80902	-2.5	0.170446566	1	#DIV/0!
Mmp25 240047	-2.5	0.170446566	1	#DIV/0!
Pdx1 18609	-2.5	0.170446566	1	#DIV/0!
Zfp811 240063	-2.5	0.170446566	1	#DIV/0!
Gm1564 268491	-2.5	0.170446566	1	#DIV/0!
Gnb3 14695	-2.5	0.170446566	1	#DIV/0!
Tmeff2 56363	-2.5	0.170446566	1	#DIV/0!
Dnahc7b 227058	-2.5	0.170446566	1	#DIV/0!
Phf16 382207	-2.5	0.170446566	1	#DIV/0!
Cabp1 29867	-2.5	0.170446566	1	#DIV/0!
Accn1 11418	-2.5	0.170446566	1	#DIV/0!
Nrcam 319504	-2.5	0.170446566	1	#DIV/0!
Gbgt1 227671	-2.5	0.170446566	1	#DIV/0!
D5Erttd605e 100039805	-2.5	0.170446566	1	#DIV/0!
Tecta 21683	-2.5	0.170446566	1	#DIV/0!
Zfp72 238722	-2.5	0.170446566	1	#DIV/0!
Ptprq 237523	-2.5	0.170446566	1	#DIV/0!
Myadml2 68515	-2.5	0.170446566	1	#DIV/0!
Zdhhc15 108672	-2.5	0.170446566	1	#DIV/0!

Olfr1030 258581	-2.5	0.170446566	1	#DIV/0!
Smok3b 622474	-2.5	0.170446566	1	#DIV/0!
Trank1 320429	-2.5	0.170446566	1	#DIV/0!
6330406115Rik 70717	-2.5	0.170446566	1	#DIV/0!
Drp2 13497	-2.5	0.170446566	1	#DIV/0!
LOC100038947 100038947	-2.5	0.170446566	1	#DIV/0!
Clvs1 74438	-2.5	0.170446566	1	#DIV/0!
Oit1 18300	-2.5	0.170446566	1	#DIV/0!
Bcas1 76960	-2.5	0.170446566	1	#DIV/0!
Aff2 14266	-2.5	0.170446566	1	#DIV/0!
Tpsab1 17230	-2.5	0.170446566	1	#DIV/0!
Gm13051 626316	-2.5	0.170446566	1	#DIV/0!
Syce3 75459	-2.5	0.170446566	1	#DIV/0!
9330182L06Rik 231014	-2.5	0.170446566	1	#DIV/0!
Cenpi 102920	-2.5	0.170446566	1	#DIV/0!
Nrg2 100042150	-2.5	0.170446566	1	#DIV/0!
Pcdhb7 93878	-2.5	0.170446566	1	#DIV/0!
Umodl1 52020	-2.5	0.170446566	1	#DIV/0!
Col24a1 71355	-2.5	0.170446566	1	#DIV/0!
Ism1 319909	-2.5	0.170446566	1	#DIV/0!
Trpm8 171382	-2.5	0.170446566	1	#DIV/0!
Gm14393 664987	-2.5	0.170446566	1	#DIV/0!
Foxh1 14106	-2.5	0.170446566	1	#DIV/0!
Rad51ap1 19362	-2.5	0.170446566	1	#DIV/0!
Cnga4 233649	-2.5	0.170446566	1	#DIV/0!
Olfml2a 241327	-2.5	0.170446566	1	#DIV/0!
Gpr174 213439	-2.5	0.170446566	1	#DIV/0!
Glis3 226075	-2.5	0.170446566	1	#DIV/0!
Oxct2b 353371	-2.5	0.170446566	1	#DIV/0!
Krt222 268481	-2.5	0.170446566	1	#DIV/0!
Gfi1b 14582	-2.5	0.170446566	1	#DIV/0!
Mall 228576	-2.5	0.170446566	1	#DIV/0!
Trem3 58218	-2.5	0.170446566	1	#DIV/0!
Atp6v0a4 140494	-2.5	0.170446566	1	#DIV/0!
Slc29a4 243328	-2.5	0.170446566	1	#DIV/0!
Kcnq5 226922	-2.5	0.170446566	1	#DIV/0!
Nhlrc4 621239	-2.5	0.170446566	1	#DIV/0!
Cml3 93674	-2.5	0.170446566	1	#DIV/0!
Slamf1 27218	-2.5	0.170446566	1	#DIV/0!
D3Bwg0562e 229791	-2.5	0.170446566	1	#DIV/0!
Nlrc3 268857	-2.5	0.170446566	1	#DIV/0!
Gpr44 14764	-2.5	0.170446566	1	#DIV/0!
Gm973 381260	-2.5	0.170446566	1	#DIV/0!
Cd101 630146	-2.5	0.170446566	1	#DIV/0!
Scg2 20254	-2.5	0.170446566	1	#DIV/0!
Grifin 77998	-2.5	0.170446566	1	#DIV/0!
Ly6i 57248	-2.5	0.170446566	1	#DIV/0!
Cdh16 12556	-2.5	0.170446566	1	#DIV/0!
Tmem52 69671	-2.5	0.170446566	1	#DIV/0!
Trem1 58217	-2.5	0.170446566	1	#DIV/0!
Zim1 22776	-2.5	0.170446566	1	#DIV/0!
Clec2i 93675	-2.5	0.170446566	1	#DIV/0!
Abca15 320631	-2.5	0.170446566	1	#DIV/0!

Cd164l2 69655	-2.5	0.170446566	1	#DIV/0!
Mybl1 17864	-2.5	0.170446566	1	#DIV/0!
Trpv3 246788	-2.5	0.170446566	1	#DIV/0!
Rnase13 497071	-2.5	0.170446566	1	#DIV/0!
Efna3 13638	-2.5	0.170446566	1	#DIV/0!
Zfp541 666528	-2.5	0.170446566	1	#DIV/0!
Itgb2 16415	-2.5	0.170446566	1	#DIV/0!
Raver2 242570	-2.5	0.170446566	1	#DIV/0!
Efcab9 69306	-2.5	0.170446566	1	#DIV/0!
I15ra 16192	-2.5	0.170446566	1	#DIV/0!
S1fn9 237886	-2.5	0.170446566	1	#DIV/0!
Spin4 270624	-2.5	0.170446566	1	#DIV/0!
Gm8234 666680	-2.5	0.170446566	1	#DIV/0!
Cecr6 94047	-2.5	0.170446566	1	#DIV/0!
Egfem1 75740	-2.502443493	0.131364174	-4.308514044	0.089804908
Notch3 18131	-2.505776625	0.09049602	-2.24281773	0.100958579
6030408B16Rik 77717	-2.516833333	0.170446566	1	#DIV/0!
Gm12185 620913	-2.516833333	0.170446566	1	#DIV/0!
Gjb6 14623	-2.516833333	0.170446566	1	#DIV/0!
Rbm24 666794	-2.516833333	0.170446566	1	#DIV/0!
Gm14047 329514	-2.516833333	0.170446566	1	#DIV/0!
Pkdrej 18766	-2.516833333	0.170446566	1	#DIV/0!
Smtnl1 68678	-2.516833333	0.170446566	1	#DIV/0!
Myoz2 59006	-2.516833333	0.170446566	1	#DIV/0!
Mas1 17171	-2.516833333	0.170446566	1	#DIV/0!
Cngb3 30952	-2.516833333	0.170446566	1	#DIV/0!
Trim6 94088	-2.516833333	0.170446566	1	#DIV/0!
Nobox 18291	-2.516833333	0.170446566	1	#DIV/0!
Nos2 18126	-2.516833333	0.170446566	1	#DIV/0!
Slc38a11 320106	-2.516833333	0.170446566	1	#DIV/0!
Pla2g4c 232889	-2.516833333	0.170446566	1	#DIV/0!
Gm7325 653016	-2.516833333	0.170446566	1	#DIV/0!
Pcdhb15 93886	-2.516833333	0.170446566	1	#DIV/0!
Ccr10 12777	-2.516833333	0.170446566	1	#DIV/0!
Zfp114 232966	-2.516833333	0.170446566	1	#DIV/0!
Shd 20420	-2.516833333	0.170446566	1	#DIV/0!
Vaultrc5 378472	-2.516833333	0.170446566	1	#DIV/0!
Dusp26 66959	-2.516833333	0.170446566	1	#DIV/0!
Gm11978 100041311	-2.516833333	0.170446566	1	#DIV/0!
Klhl29 208439	-2.516833333	0.170446566	1	#DIV/0!
Clspn 269582	-2.516833333	0.170446566	1	#DIV/0!
Kcnq2 16536	-2.516833333	0.170446566	1	#DIV/0!
G6pd2 14380	-2.516833333	0.170446566	1	#DIV/0!
D1Pas1 110957	-2.516833333	0.170446566	1	#DIV/0!
R3hdml 100043899	-2.516833333	0.170446566	1	#DIV/0!
Sftpc 20389	-2.516833333	0.170446566	1	#DIV/0!
Galr3 14429	-2.516833333	0.170446566	1	#DIV/0!
Bend6 320705	-2.516833333	0.170446566	1	#DIV/0!
40979 211147	-2.516833333	0.170446566	1	#DIV/0!
Rasef 242505	-2.516833333	0.170446566	1	#DIV/0!
Gm5151 381582	-2.516833333	0.170446566	1	#DIV/0!
Gm5544 433632	-2.516833333	0.170446566	1	#DIV/0!
Lrrc4b 272381	-2.516833333	0.170446566	1	#DIV/0!

2010002M12Rik 112419	-2.516833333	0.170446566	1	#DIV/0!
Zfp599 235048	-2.516833333	0.170446566	1	#DIV/0!
Trim31 224762	-2.516833333	0.170446566	1	#DIV/0!
Kcnc4 99738	-2.516833333	0.170446566	1	#DIV/0!
Kcnv2 240595	-2.516833333	0.170446566	1	#DIV/0!
Trim60 234329	-2.516833333	0.170446566	1	#DIV/0!
9130230L23Rik 231253	-2.516833333	0.170446566	1	#DIV/0!
Macc1 238455	-2.516833333	0.170446566	1	#DIV/0!
Zfp934 77117	-2.516833333	0.170446566	1	#DIV/0!
Kcnj13 100040591	-2.516833333	0.170446566	1	#DIV/0!
Kcnma1 16531	-2.516833333	0.170446566	1	#DIV/0!
Olfr1442 258692	-2.516833333	0.170446566	1	#DIV/0!
Kif4 16571	-2.516833333	0.170446566	1	#DIV/0!
Vil1 22349	-2.516833333	0.170446566	1	#DIV/0!
Gm11110 100169874	-2.516833333	0.170446566	1	#DIV/0!
1700025E21Rik 75647	-2.516833333	0.170446566	1	#DIV/0!
Ptx3 19288	-2.516833333	0.170446566	1	#DIV/0!
Samd3 268288	-2.516833333	0.170446566	1	#DIV/0!
Npas1 18142	-2.516833333	0.170446566	1	#DIV/0!
Gm600 239151	-2.516833333	0.170446566	1	#DIV/0!
Serpinb12 71869	-2.516833333	0.170446566	1	#DIV/0!
Kcnk2 16526	-2.516833333	0.170446566	1	#DIV/0!
B3gnt7 227327	-2.516833333	0.170446566	1	#DIV/0!
Gucy2g 73707	-2.516833333	0.170446566	1	#DIV/0!
Gxylt2 232313	-2.516833333	0.170446566	1	#DIV/0!
Rgr 57811	-2.516833333	0.170446566	1	#DIV/0!
Murc 68016	-2.516833333	0.170446566	1	#DIV/0!
Hist1h1t 107970	-2.516833333	0.170446566	1	#DIV/0!
Prdm5 70779	-2.516833333	0.170446566	1	#DIV/0!
Cnrip1 380686	-2.527181018	0.03696948	-2.124495507	0.07625478
Gbp10 626578	-2.528836719	0.03578146	-3.909115828	0.011583368
Slc15a5 277898	-2.529380465	0.15994295	-5.725	0.078582895
Lamc2 16782	-2.531218987	0.137940916	-2.539690909	0.13105537
Fancg 60534	-2.531836058	0.008496618	-2.531836058	0.008496618
Pcdhgb6 93703	-2.536217719	0.210730115	-5.83124	0.173296754
Myst4 54169	-2.536781208	0.078102959	-2.016032707	0.022410628
Sucnr1 84112	-2.539619336	0.00095107	-2.761010386	0.000216073
G530011O06Rik 654820	-2.542815371	0.047943582	-2.542815371	0.047943582
Mfap1b 100034361	-2.543796463	0.006015395	-2.292727349	0.012750733
Bsn 12217	-2.545087754	0.126459335	-10.12431667	0.037434332
Upk3b 100647	-2.545087754	0.126459335	-10.12431667	0.037434332
0610008F07Rik 68314	-2.546862257	0.00020714	-2.958138477	3.31062E-05
Xirp1 22437	-2.546865962	0.158109741	-12.47548333	0.059683025
Pcp2 18545	-2.55	0.170446566	1	#DIV/0!
Pdzd9 67983	-2.5505	0.170446566	1	#DIV/0!
Mpp7 75739	-2.553549245	0.046124068	-3.045861348	0.036328653
Hectd2 226098	-2.554213629	0.08844341	-4.866235003	0.025395598
6430550D23Rik 320095	-2.554728317	0.230351658	-2.8202	0.173296754
Zfp280d 235469	-2.558460373	0.037356945	-2.558460373	0.037356945
Rgn 19733	-2.560471537	0.001508836	-2.42152425	0.000426909
Phf21b 271305	-2.561926717	0.096005858	-2.561926717	0.096005858
Cldn6 54419	-2.565907029	0.081574194	-2.565907029	0.081574194
Sez6l2 233878	-2.567250327	0.091557526	-17.42063333	0.005587537

1700096K18Rik 73571	-2.568770183	0.010680099	-2.568770183	0.010680099
Per3 18628	-2.570449129	0.038249521	-2.570449129	0.038249521
Tlr9 81897	-2.571428571	0.257082261	1	#DIV/0!
Gm1943 384864	-2.576055411	0.025693353	-2.923340273	0.013602722
9030619P08Rik 105892	-2.577277635	0.002598479	-3.119355837	0.001854358
Prdm1 12142	-2.577793333	0.112456322	-9.46676	0.027509545
Bcl2a1d 12047	-2.587841208	0.248181938	1	#DIV/0!
5730507C01Rik 236366	-2.588996099	0.151556385	-6.10878	0.08277987
Pole2 18974	-2.591485714	0.20181887	-2.8202	0.173296754
Esco1 77805	-2.593247862	0.057127015	-4.631172579	0.024524315
Efnb2 13642	-2.594310543	0.061594535	-2.594310543	0.061594535
Sema5b 20357	-2.597906637	0.004364805	-1.879038695	0.008105304
Cyfp2 76884	-2.608781903	0.014882919	-2.608781903	0.014882919
Pdk3 236900	-2.614511541	0.056927323	-12.28058	2.26551E-05
Zfp37 22696	-2.618173373	0.103527824	-1.737055864	0.216907909
Emr4 52614	-2.618296995	0.05105169	-3.906689157	0.015112091
A230056P14Rik 320845	-2.618363103	0.058661092	-2.618363103	0.058661092
Eya2 14049	-2.619116051	0.143606318	-6.6202	0.087728953
B230206H07Rik 320871	-2.621003302	0.064746709	-1.831394606	0.114357007
Zfp354b 27274	-2.625658233	0.026654261	-2.059120485	0.038400059
2010110P09Rik 70261	-2.627566667	0.152504417	-7.7654	0.073181307
Samd10 229011	-2.635895248	0.013629555	-4.233935731	0.002958045
Lama4 16775	-2.636537198	0.045468671	-2.636537198	0.045468671
Cd46 17221	-2.638222857	0.112593519	-7.694816667	0.043805315
Rap1gap2 380711	-2.639155458	0.061627826	-1.925207129	0.119072822
Cep192 70799	-2.640479326	0.117410165	-10.05895	0.03738237
Bcl11a 14025	-2.641188571	0.113022404	-7.703466667	0.044331703
Itga6 16403	-2.642440423	0.122313867	-5.858383838	0.067890355
Msh4 55993	-2.643994286	0.111962198	-7.71165	0.043574427
Rnf208 68846	-2.650796667	0.167585833	-6.38098	0.020002315
Ribc1 66611	-2.650977817	0.00080618	-2.387067591	0.000789877
Utp14b 195434	-2.655639413	0.019365364	-5.246993939	0.000559844
Tmem67 329795	-2.655715333	0.008034698	-2.655715333	0.008034698
Trim35 66854	-2.660153733	0.0003041	-2.192286472	0.000468306
Rgs9 19739	-2.661868719	0.028824897	-2.661868719	0.028824897
Egf 13645	-2.662008741	0.079963396	-10.14096667	0.012545915
Plk4 20873	-2.662008741	0.079963396	-10.14096667	0.012545915
Cog5 238123	-2.665294745	0.053395091	-3.718251689	0.020983218
Rdh19 216453	-2.666666667	0.170446566	1	#DIV/0!
Sync 68828	-2.66835	0.170446566	1	#DIV/0!
Abca4 11304	-2.670588132	0.078976029	-10.17365	0.012340756
Chrd 12667	-2.678960877	2.93338E-05	-2.770812985	1.31945E-05
Ifit1 15957	-2.680997029	0.010865034	-2.19230787	0.009733054
N4bp2 333789	-2.687976019	0.115153677	-3.09281768	0.040766669
Nfkbiz 80859	-2.692271913	0.052923582	-2.692271913	0.052923582
Kctd12b 207474	-2.698586495	0.029741639	-4.127846389	0.010766957
I17re 57890	-2.712120312	0.121612504	-2.752539394	0.103543379
Ildr1 106347	-2.712537773	0.120548221	-9.57578	0.028800441
Syt3 20981	-2.714306666	0.011498167	-2.714306666	0.011498167
BC021767 545551	-2.714478119	0.131854361	-7.47616	0.020098075
Al662270 100043636	-2.724556519	0.051482869	-1.930621719	0.077234095
C230091D08Rik 330544	-2.72695547	0.067245687	-1.612892807	0.195406671
Eci3 69123	-2.728294341	0.029186277	-3.248451516	0.004742063

Gm4925 237433	-2.730165714	0.065356157	-7.962983333	0.01361011
Trim56 384309	-2.734803505	0.11055963	-8.345151594	4.25795E-05
Cd300e 217306	-2.740450435	0.009947877	-2.306316875	0.022039297
Zbtb1 268564	-2.748500538	0.092956891	-7.166811181	0.037803466
Aqp8 11833	-2.752256813	0.002192635	-3.423380903	0.001474361
Hist1h2bp 319188	-2.752533333	0.170446566	1	#DIV/0!
Robo3 19649	-2.753859245	0.11953938	-1.515644735	0.247307335
Mob1a 232157	-2.757831791	0.131852354	-2.709600084	0.143484141
Evpl 14027	-2.7672069	0.038537203	-2.7672069	0.038537203
Doc2g 60425	-2.771116357	0.000783402	-2.771116357	0.000783402
Fgd4 224014	-2.772389393	0.017962647	-3.308384008	0.001167527
Gbp6 100702	-2.78008262	0.002422072	-2.78008262	0.002422072
4930473A06Rik 320226	-2.780558644	0.007043617	-2.700120714	0.001296318
Agbl3 76223	-2.781080499	0.039725995	-17.77034	4.84841E-08
Rhof 23912	-2.78941923	0.061747114	-3.21443927	0.045393606
Gpr97 54672	-2.791210316	0.000218643	-3.055010715	9.38918E-06
4930563E22Rik 75304	-2.793805714	0.197880848	-2.76078	0.173296754
Acn9 71238	-2.7978382	0.095410268	-1.744950503	0.190023771
Bbs7 71492	-2.801981742	0.019135737	-5.122379282	0.000222342
Tssk1 22114	-2.802184904	0.05342064	-5.553198181	0.022031674
Hey2 15214	-2.805011429	0.196537171	-2.8	0.173296754
Mmgt2 216829	-2.822192114	0.07848064	-5.828282828	0.040150201
Tnnt2 21956	-2.822249642	0.06595673	-1.644041308	0.191781906
Panx1 55991	-2.823281478	0.099024577	-7.5948	0.026105266
Sorcs2 81840	-2.825645714	0.064479698	-8.241466667	0.016004313
Phactr1 218194	-2.830405271	0.09861442	-2.830405271	0.09861442
3110001I22Rik 66598	-2.836736806	0.072921648	-3.548325926	0.064555885
Zfp715 69930	-2.844455721	0.034220375	-6.719374673	0.005872542
Nap1l3 54561	-2.849885714	0.167543931	-3.9746	0.173296754
Fndc5 384061	-2.856920802	0.137490632	-6.6202	0.087728953
Ccdc62 208908	-2.861298497	0.000884845	-2.861298497	0.000884845
Tnfsf13 69583	-2.862369223	0.006317543	-3.252363091	0.001005421
1700009P17Rik 75472	-2.865449172	0.013811933	-2.787485769	0.012911592
Fitm1 68680	-2.866000982	0.000352809	-2.866000982	0.000352809
Synm 233335	-2.86694191	0.162020882	-4.72156	0.173296754
Ovol2 107586	-2.8672	0.167172108	-3.9746	0.173296754
Snn 20621	-2.8674335	0.035011336	-2.217731256	0.062819965
Peli3 240518	-2.878731844	0.049803609	-3.793878788	0.02520964
Zfp647 239546	-2.882158031	0.123717515	-15.37578	0.009220078
Adam1a 280668	-2.887895458	0.115440739	-7.725	0.072984714
Etv4 18612	-2.890799311	0.143439081	-4.56078	0.070574133
Scgb1c1 338417	-2.913811407	0.164828986	-6.60118	0.089542423
Gm7120 633640	-2.919213471	0.089373788	-2.512088614	0.062882096
Bcl9 77578	-2.935144932	0.106440103	-5.148996941	0.079002833
Pmel 20431	-2.941622706	0.04032891	-3.935468495	0.028426471
Esr1 13982	-2.94256999	0.069904551	-2.463921898	0.109253095
Apc2 23805	-2.95959	0.083999635	-10.74	0.021597467
Scd1 20249	-2.960754856	0.01154218	-2.396171756	0.011909639
Gm6787 627782	-2.973822857	0.087331737	-8.67365	0.037277465
Alpk1 71481	-3.002433267	0.104420224	-3.221509091	0.127882662
Stambpl1 76630	-3.003644019	0.014521658	-3.584015173	0.000861442
Card11 108723	-3.011931429	0.097726719	-8.7848	0.047326766
Emid1 140703	-3.015605654	0.107626729	-7.725	0.072984714

Zfp960 449000	-3.021066127	0.092970709	-6.516672795	0.056561398
Klhdc7a 242721	-3.023212152	0.006046629	-3.378725066	0.003784669
Ces4a 234677	-3.02339	0.084122769	-15.11695	0.022871287
Thbs3 21827	-3.024368748	0.007240765	-5.539806891	0.000908083
Bhlhb9 70237	-3.041049426	0.061088595	-2.097710659	0.110687616
Ppbp 57349	-3.042479648	0.101056723	-7.50598	0.025961531
Lat2 56743	-3.053568818	0.016409234	-4.702485691	0.002184739
Relt 320100	-3.05821102	0.029864917	-3.05821102	0.029864917
Stard4 170459	-3.088166692	0.060434643	-2.746903283	0.090545155
Haus6 230376	-3.088794286	0.13254585	-4.56078	0.070574133
Tnfrsf13c 72049	-3.090178564	0.04395869	-2.317833786	0.082974413
Espl1 105988	-3.09176	0.084088104	-9.017633333	0.038462883
Pbx4 80720	-3.10144075	0.142255205	-4.58098	0.070596339
Scd2 20250	-3.111908385	0.047036312	-2.190211442	0.072259439
Zfp951 626391	-3.113880987	0.033701259	-14.66436	7.47236E-05
D830015G02Rik 791403	-3.114033333	0.170446566	1	#DIV/0!
Tmem71 213068	-3.114286631	0.085842262	-9.705466667	0.038460173
Spred3 101809	-3.115729235	0.045748446	-3.837684848	0.005488291
Pabpc4l 241989	-3.127549656	0.085108819	-9.7468	0.038269251
AU041133 216177	-3.138189786	0.125558494	-6.8996	0.070566833
Smpd13b 100340	-3.139031799	0.156389575	-4.72156	0.173296754
Rdh18-ps 380674	-3.147265034	0.082845795	-10.21234137	0.035831364
Prph 19132	-3.155474286	0.049773787	-9.203466667	0.015035698
Gpr137c 70713	-3.155904696	0.122673308	-5.813836158	0.097228399
Cyp2g1 13108	-3.158479679	0.013364058	-9.593463858	0.000281329
Mup14 100039116	-3.158520742	0.07536837	-6.071364267	0.049963663
Limch1 77569	-3.159327436	0.084145838	-9.845833333	0.038439314
Tmem194 210035	-3.159399096	0.139696169	-2.513733224	0.155741267
Palld 72333	-3.169824869	0.053193431	-2.248474625	0.096856049
Ppp1r3f 54646	-3.173861127	0.100273722	-12.62556667	0.045659527
Zkscan4 544922	-3.179381047	0.043384447	-31.68491667	0.00178628
Sgsm1 52850	-3.192394279	0.0219653	-6.44726988	0.001026835
Pilrb2 545812	-3.195205632	0.001615307	-3.195205632	0.001615307
Zfhx2as 432855	-3.20175	0.170446566	1	#DIV/0!
Zfp101 22643	-3.216769744	0.086978391	-5.38528942	0.0695168
Cdca2 108912	-3.223822857	0.079082075	-9.402816667	0.038132641
Tmprss4 214523	-3.227712235	0.080462464	-10.05895	0.03738237
Arhgap44 216831	-3.231255985	0.055529045	-3.231255985	0.055529045
Gprasp1 67298	-3.23840862	0.016158771	-5.627286767	0.007118792
Ap1s2 108012	-3.254033063	0.035159938	-5.602542951	0.021803184
Ldb3 24131	-3.254088541	0.107719325	-6.10878	0.08277987
Fzd2 57265	-3.266596559	0.143453667	-6.06956	0.083596805
Sc4mol 66234	-3.270762326	0.016188812	-2.456795672	0.005770179
Car1 12346	-3.273271337	0.012776123	-2.561359987	0.009531733
Icos 54167	-3.292534398	0.03510613	-6.031012176	0.020023345
Ankle1 234396	-3.293091577	0.037546818	-4.970946855	0.017686137
Idi1 319554	-3.310759015	0.040798916	-2.456391624	0.00829248
2810432L12Rik 67063	-3.316165236	0.087242887	-11.48696	0.021283245
Lrrc50 68270	-3.333333333	0.170446566	1	#DIV/0!
Elf3 13710	-3.33584469	0.018662417	-5.242375103	0.003093408
Sectm1a 209588	-3.339131429	0.076030926	-9.739133333	0.038536342
Col4a4 12829	-3.342682012	0.095567558	-13.29713333	0.046995664
Esrrb 26380	-3.348171299	0.042844032	-4.626419566	0.038446498

Kitl 17311	-3.352965714	0.105022556	-5.73538	0.079831528
Fam132b 227358	-3.359366667	0.170446566	1	#DIV/0!
Gfra2 14586	-3.362799178	0.002617829	-3.714502745	0.000361244
Tmem14a 75712	-3.378960809	0.000759383	-3.761368131	7.07692E-05
Aim2 383619	-3.390688766	0.013050217	-4.039360589	0.001076418
Lcn2 16819	-3.412952112	0.026462407	-2.215178381	0.039449461
Npff 54615	-3.424629252	0.06102326	-8.459633333	0.033016045
Zfp398 272347	-3.426304649	0.019447565	-2.685832395	0.029152791
Pde6c 110855	-3.42915974	0.006605334	-3.42915974	0.006605334
D17H6S56E-3 27762	-3.430855183	0.06333734	-9.33468	0.026770599
Pde1c 18575	-3.4375	0.170446566	1	#DIV/0!
Gm13034 627585	-3.4375	0.170446566	1	#DIV/0!
Nxn12 75124	-3.4375	0.170446566	1	#DIV/0!
Zbtb8b 215627	-3.4375	0.170446566	1	#DIV/0!
2700099C18Rik 77022	-3.4375	0.170446566	1	#DIV/0!
E330034G19Rik 105418	-3.4375	0.170446566	1	#DIV/0!
Cyct 13067	-3.4375	0.170446566	1	#DIV/0!
Olf1034 258216	-3.4375	0.170446566	1	#DIV/0!
Cckbr 12426	-3.4375	0.170446566	1	#DIV/0!
Tbrg3 21378	-3.4375	0.170446566	1	#DIV/0!
Pnpla1 433091	-3.4375	0.170446566	1	#DIV/0!
1500009C09Rik 76505	-3.4375	0.170446566	1	#DIV/0!
A630075F10Rik 100043910	-3.4375	0.170446566	1	#DIV/0!
Trim42 78911	-3.4375	0.170446566	1	#DIV/0!
Zfp442 668923	-3.4375	0.170446566	1	#DIV/0!
Miat 330166	-3.4375	0.170446566	1	#DIV/0!
Pspn 19197	-3.4375	0.170446566	1	#DIV/0!
Trpc1 22063	-3.4375	0.170446566	1	#DIV/0!
Akr1c21 77337	-3.4375	0.170446566	1	#DIV/0!
Nkx1-2 20231	-3.4375	0.170446566	1	#DIV/0!
Tex14 83560	-3.4375	0.170446566	1	#DIV/0!
Pcdh8 18530	-3.4375	0.170446566	1	#DIV/0!
Klra5 16636	-3.4375	0.170446566	1	#DIV/0!
Chst4 26887	-3.4375	0.170446566	1	#DIV/0!
Nov 18133	-3.4375	0.170446566	1	#DIV/0!
4930404I05Rik 67394	-3.4375	0.170446566	1	#DIV/0!
Lrrc63 70859	-3.4375	0.170446566	1	#DIV/0!
Pcnx12 270109	-3.4375	0.170446566	1	#DIV/0!
Prdm6 225518	-3.4375	0.170446566	1	#DIV/0!
Prr19 623131	-3.4375	0.170446566	1	#DIV/0!
Sirpb1b 668101	-3.4375	0.170446566	1	#DIV/0!
Csmd3 239420	-3.4375	0.170446566	1	#DIV/0!
Hoxb1 15407	-3.4375	0.170446566	1	#DIV/0!
F930015N05Rik 654805	-3.4375	0.170446566	1	#DIV/0!
Wdr72 546144	-3.4375	0.170446566	1	#DIV/0!
Kif17 16559	-3.4375	0.170446566	1	#DIV/0!
Gm15348 100038554	-3.4375	0.170446566	1	#DIV/0!
Tox3 244579	-3.4375	0.170446566	1	#DIV/0!
Eif5a2 208691	-3.4375	0.170446566	1	#DIV/0!
Mcf2 109904	-3.4375	0.170446566	1	#DIV/0!
BC094916 545384	-3.4375	0.170446566	1	#DIV/0!
Mtap2 17756	-3.4375	0.170446566	1	#DIV/0!
Tekt2 24084	-3.4375	0.170446566	1	#DIV/0!

Drd5 13492	-3.4375	0.170446566	1	#DIV/0!
A930017M01Rik 239410	-3.4375	0.170446566	1	#DIV/0!
Olf1443 258693	-3.4375	0.170446566	1	#DIV/0!
Clnk 27278	-3.4375	0.170446566	1	#DIV/0!
Pqlc3 217430	-3.4375	0.170446566	1	#DIV/0!
Ccdc46 76380	-3.4375	0.170446566	1	#DIV/0!
Usp29 57775	-3.4375	0.170446566	1	#DIV/0!
Gm5779 544707	-3.4375	0.170446566	1	#DIV/0!
Rgs17 56533	-3.4375	0.170446566	1	#DIV/0!
Duox2 214593	-3.4375	0.170446566	1	#DIV/0!
Erb4 13869	-3.4375	0.170446566	1	#DIV/0!
Lrtm2 211187	-3.4375	0.170446566	1	#DIV/0!
Timm8a2 223262	-3.4375	0.170446566	1	#DIV/0!
Rem2 140743	-3.4375	0.170446566	1	#DIV/0!
Tekt5 70426	-3.4375	0.170446566	1	#DIV/0!
Mylk4 238564	-3.4375	0.170446566	1	#DIV/0!
Snora64 104366	-3.4375	0.170446566	1	#DIV/0!
Ryr3 20192	-3.4375	0.170446566	1	#DIV/0!
Olf92 258448	-3.4375	0.170446566	1	#DIV/0!
3830408C21Rik 100040322	-3.4375	0.170446566	1	#DIV/0!
Ncan 13004	-3.4375	0.170446566	1	#DIV/0!
Rtn4r 65079	-3.4375	0.170446566	1	#DIV/0!
Gpr88 64378	-3.4375	0.170446566	1	#DIV/0!
Xlr4b 27083	-3.4375	0.170446566	1	#DIV/0!
Meis3 17537	-3.437607249	0.031473106	-21.69192	0.000829565
9930014A18Rik 320469	-3.439360494	0.033096024	-2.632254343	0.061036807
Zfp182 319535	-3.46942635	0.012908321	-6.453128919	0.005238345
Fsip1 71313	-3.478833333	0.170446566	1	#DIV/0!
Pxt1 69307	-3.478833333	0.170446566	1	#DIV/0!
Trim63 433766	-3.478833333	0.170446566	1	#DIV/0!
Fcamr 64435	-3.478833333	0.170446566	1	#DIV/0!
Tcf15 21407	-3.478833333	0.170446566	1	#DIV/0!
4922505G16Rik 629499	-3.478833333	0.170446566	1	#DIV/0!
Gm10190 791338	-3.478833333	0.170446566	1	#DIV/0!
Fbn2 14119	-3.478833333	0.170446566	1	#DIV/0!
Mir670 735259	-3.478833333	0.170446566	1	#DIV/0!
Slc30a8 239436	-3.478833333	0.170446566	1	#DIV/0!
Mir155 387173	-3.478833333	0.170446566	1	#DIV/0!
Trpm1 17364	-3.478833333	0.170446566	1	#DIV/0!
Alpk3 116904	-3.478833333	0.170446566	1	#DIV/0!
Foxd2 17301	-3.478833333	0.170446566	1	#DIV/0!
BC048671 243535	-3.478833333	0.170446566	1	#DIV/0!
Neto1 246317	-3.478833333	0.170446566	1	#DIV/0!
Tm7sf4 75766	-3.478833333	0.170446566	1	#DIV/0!
Grk1 24013	-3.478833333	0.170446566	1	#DIV/0!
Ptk6 20459	-3.478833333	0.170446566	1	#DIV/0!
Ttll9 74711	-3.478833333	0.170446566	1	#DIV/0!
Cenpe 229841	-3.478833333	0.170446566	1	#DIV/0!
S100a14 66166	-3.478833333	0.170446566	1	#DIV/0!
1700019L03Rik 227736	-3.478833333	0.170446566	1	#DIV/0!
Matn4 17183	-3.478833333	0.170446566	1	#DIV/0!
Akap3 11642	-3.478833333	0.170446566	1	#DIV/0!
Mgst2 211666	-3.478833333	0.170446566	1	#DIV/0!

Six2 20472	-3.478833333	0.170446566	1	#DIV/0!
Nrxn3 18191	-3.478833333	0.170446566	1	#DIV/0!
Mpo 17523	-3.478833333	0.170446566	1	#DIV/0!
Ntsr2 18217	-3.478833333	0.170446566	1	#DIV/0!
Ulk4 209012	-3.478833333	0.170446566	1	#DIV/0!
Mfap5 50530	-3.478833333	0.170446566	1	#DIV/0!
Dux 664783	-3.478833333	0.170446566	1	#DIV/0!
Cdkl1 71091	-3.478833333	0.170446566	1	#DIV/0!
Isl2 104360	-3.478833333	0.170446566	1	#DIV/0!
Pcdhb4 93875	-3.478833333	0.170446566	1	#DIV/0!
Klhdc1 271005	-3.478833333	0.170446566	1	#DIV/0!
Tcf23 69852	-3.478833333	0.170446566	1	#DIV/0!
4930511M06Rik 75084	-3.478833333	0.170446566	1	#DIV/0!
Alox15 11687	-3.478833333	0.170446566	1	#DIV/0!
Ppm1n 232941	-3.478833333	0.170446566	1	#DIV/0!
A530099J19Rik 319293	-3.478833333	0.170446566	1	#DIV/0!
Nt5c1b 70881	-3.478833333	0.170446566	1	#DIV/0!
Nudt10 102954	-3.478833333	0.170446566	1	#DIV/0!
Fgf18 14172	-3.478833333	0.170446566	1	#DIV/0!
Pax9 18511	-3.478833333	0.170446566	1	#DIV/0!
Gm7092 632778	-3.478833333	0.170446566	1	#DIV/0!
Gpr55 227326	-3.478833333	0.170446566	1	#DIV/0!
1700066B19Rik 73449	-3.478833333	0.170446566	1	#DIV/0!
Gm1574 380842	-3.478833333	0.170446566	1	#DIV/0!
Wnt11 22411	-3.478833333	0.170446566	1	#DIV/0!
Kif20b 240641	-3.478833333	0.170446566	1	#DIV/0!
Edar 13608	-3.478833333	0.170446566	1	#DIV/0!
Kbtbd13 74492	-3.478833333	0.170446566	1	#DIV/0!
Nwd1 319555	-3.478833333	0.170446566	1	#DIV/0!
Car10 72605	-3.478833333	0.170446566	1	#DIV/0!
Tpte 234129	-3.478833333	0.170446566	1	#DIV/0!
Ppp1r3a 140491	-3.478833333	0.170446566	1	#DIV/0!
Polq 77782	-3.478833333	0.170446566	1	#DIV/0!
Slc2a13 239606	-3.478833333	0.170446566	1	#DIV/0!
Epha3 13837	-3.478833333	0.170446566	1	#DIV/0!
Mms22l 212377	-3.485259467	0.01658467	-2.755260703	0.02386326
Pou2af1 18985	-3.49430375	0.037540757	-7.746994949	0.018765086
S100pbp 74648	-3.494966667	0.083451178	-11.5948	0.042761804
Pla2g4a 18783	-3.496528811	0.058200863	-13.90913333	0.02136273
Slc22a29 236293	-3.515633333	0.170446566	1	#DIV/0!
Dlgap3 242667	-3.525026931	0.004920397	-6.296606061	0.001429184
Mir1839 100316717	-3.525982596	0.083332883	-14.0263	0.041490024
Hsd3b6 15497	-3.541666667	0.170446566	1	#DIV/0!
Zbed6 667118	-3.561268482	0.233897864	1	#DIV/0!
Hist1h2bb 319178	-3.58465	0.170446566	1	#DIV/0!
Cnn1 12797	-3.610683116	0.189641251	1.206415778	0.394652548
Dzip1 66573	-3.629628078	0.147551708	-6.8	0.173296754
Dnase1l2 66705	-3.629628078	0.147551708	-6.8	0.173296754
Rnase6 78416	-3.633518017	0.116351852	-5.7452	0.078237796
Etv5 104156	-3.638575288	0.000327788	-3.638575288	0.000327788
Arhgap6 11856	-3.647334106	0.070692703	-2.152003708	0.089741351
Sybu 319613	-3.654550735	0.016276344	-6.103573588	0.010609883
Cct6b 12467	-3.671109067	0.165999474	-3.925	0.173296754

Fbxw17 109082	-3.675531429	0.014274216	-12.66436	5.78335E-05
Gzmb 14939	-3.683131429	0.093445767	-6.54176	0.086882566
Robo2 268902	-3.690363169	0.103598997	-14.0585	0.064345641
1110012J17Rik 68617	-3.69350062	0.083221725	-3.832670381	0.114337623
Pfn4 382562	-3.705542857	0.092547859	-6.6202	0.087728953
Zbp1 58203	-3.707987339	0.000965312	-3.106727154	0.002597225
Cyp1b1 13078	-3.714117634	0.059519908	-7.88976	0.029636667
Cyp4f39 320997	-3.714801051	0.100684576	-7.92898	0.029263299
Mmp24 17391	-3.743383333	0.170446566	1	#DIV/0!
Ccdc96 66717	-3.74388	0.033923263	-10.91965	0.013608087
Ppm1e 320472	-3.757316667	0.170446566	1	#DIV/0!
Pak3 18481	-3.757316667	0.170446566	1	#DIV/0!
Grm3 108069	-3.757316667	0.170446566	1	#DIV/0!
Slc36a2 246049	-3.757316667	0.170446566	1	#DIV/0!
Gm5095 328953	-3.757316667	0.170446566	1	#DIV/0!
1700029M20Rik 73937	-3.757316667	0.170446566	1	#DIV/0!
Dpep3 71854	-3.757316667	0.170446566	1	#DIV/0!
Expi 14038	-3.757316667	0.170446566	1	#DIV/0!
Tnfrsf17 21935	-3.757316667	0.170446566	1	#DIV/0!
Gjb3 14620	-3.757316667	0.170446566	1	#DIV/0!
Olf1r518 258303	-3.757316667	0.170446566	1	#DIV/0!
Fancd2 211651	-3.757316667	0.170446566	1	#DIV/0!
A530058N18Rik 320846	-3.757316667	0.170446566	1	#DIV/0!
Vmn1r61 636731	-3.757316667	0.170446566	1	#DIV/0!
Tnnt3 21957	-3.757316667	0.170446566	1	#DIV/0!
Gm3985 100042715	-3.757316667	0.170446566	1	#DIV/0!
4933432I09Rik 66779	-3.757316667	0.170446566	1	#DIV/0!
B430319G15Rik 78575	-3.757316667	0.170446566	1	#DIV/0!
Tyrp1 22178	-3.757316667	0.170446566	1	#DIV/0!
Olf1r699 258180	-3.757316667	0.170446566	1	#DIV/0!
Irs4 16370	-3.757316667	0.170446566	1	#DIV/0!
Ryr1 20190	-3.757316667	0.170446566	1	#DIV/0!
Gpr156 239845	-3.757316667	0.170446566	1	#DIV/0!
Crb1 170788	-3.757316667	0.170446566	1	#DIV/0!
F830045P16Rik 228592	-3.757316667	0.170446566	1	#DIV/0!
Olf1r912 258806	-3.757316667	0.170446566	1	#DIV/0!
Tcp10a 21460	-3.757316667	0.170446566	1	#DIV/0!
4933427G17Rik 74466	-3.757316667	0.170446566	1	#DIV/0!
Olf1r114 258284	-3.757316667	0.170446566	1	#DIV/0!
Gabrg1 14405	-3.757316667	0.170446566	1	#DIV/0!
Tmem232 381107	-3.757316667	0.170446566	1	#DIV/0!
Osr2 107587	-3.757316667	0.170446566	1	#DIV/0!
Col6a6 245026	-3.757316667	0.170446566	1	#DIV/0!
Vmn2r77 546983	-3.757316667	0.170446566	1	#DIV/0!
Olf1r574 258357	-3.757316667	0.170446566	1	#DIV/0!
Sncg 20618	-3.757316667	0.170446566	1	#DIV/0!
Rtl1 353326	-3.757316667	0.170446566	1	#DIV/0!
Ccl17 20295	-3.757316667	0.170446566	1	#DIV/0!
Tfap2e 332937	-3.757316667	0.170446566	1	#DIV/0!
Pax3 18505	-3.757316667	0.170446566	1	#DIV/0!
1700057K13Rik 73435	-3.757316667	0.170446566	1	#DIV/0!
Celsr3 107934	-3.757316667	0.170446566	1	#DIV/0!
Gm10825 100038752	-3.757316667	0.170446566	1	#DIV/0!

Cd96 84544	-3.757316667	0.170446566	1	#DIV/0!
Ppy 19064	-3.757316667	0.170446566	1	#DIV/0!
Abca12 74591	-3.757316667	0.170446566	1	#DIV/0!
Olfr763 258861	-3.757316667	0.170446566	1	#DIV/0!
Shh 20423	-3.757316667	0.170446566	1	#DIV/0!
Rasd2 75141	-3.757316667	0.170446566	1	#DIV/0!
Mcpt4 17227	-3.757316667	0.170446566	1	#DIV/0!
Il1 16156	-3.757316667	0.170446566	1	#DIV/0!
Olfr684 244187	-3.757316667	0.170446566	1	#DIV/0!
Exo1 26909	-3.757316667	0.170446566	1	#DIV/0!
4933404M02Rik 66748	-3.757316667	0.170446566	1	#DIV/0!
Olfr353 258943	-3.757316667	0.170446566	1	#DIV/0!
Tspan1 66805	-3.757316667	0.170446566	1	#DIV/0!
Gm10125 791318	-3.757316667	0.170446566	1	#DIV/0!
BC125332 213765	-3.757316667	0.170446566	1	#DIV/0!
Radil 231858	-3.757316667	0.170446566	1	#DIV/0!
Svopl 320590	-3.757316667	0.170446566	1	#DIV/0!
Pla2g2f 26971	-3.757316667	0.170446566	1	#DIV/0!
Fam47a-ps 70864	-3.757316667	0.170446566	1	#DIV/0!
Sobp 109205	-3.757316667	0.170446566	1	#DIV/0!
Gm628 268816	-3.757316667	0.170446566	1	#DIV/0!
Apcdd1 494504	-3.757316667	0.170446566	1	#DIV/0!
Arpm1 76652	-3.757316667	0.170446566	1	#DIV/0!
Morn5 75495	-3.757316667	0.170446566	1	#DIV/0!
Ucp3 22229	-3.757316667	0.170446566	1	#DIV/0!
Ankrd34c 330998	-3.757316667	0.170446566	1	#DIV/0!
Olfr910 258807	-3.757316667	0.170446566	1	#DIV/0!
Esr2 13983	-3.757316667	0.170446566	1	#DIV/0!
Fam166b 329831	-3.757316667	0.170446566	1	#DIV/0!
Adig 246747	-3.757316667	0.170446566	1	#DIV/0!
Olfr610 259085	-3.757316667	0.170446566	1	#DIV/0!
Gm10790 100038577	-3.757316667	0.170446566	1	#DIV/0!
Syna 214292	-3.757316667	0.170446566	1	#DIV/0!
Flrt3 71436	-3.757316667	0.170446566	1	#DIV/0!
Grin2b 14812	-3.757316667	0.170446566	1	#DIV/0!
Cma1 17228	-3.757316667	0.170446566	1	#DIV/0!
Gria1 14799	-3.757316667	0.170446566	1	#DIV/0!
Aqp5 11830	-3.757316667	0.170446566	1	#DIV/0!
D7Ert715e 52480	-3.757316667	0.170446566	1	#DIV/0!
Crnn 381457	-3.757316667	0.170446566	1	#DIV/0!
Ppp1r14c 76142	-3.757316667	0.170446566	1	#DIV/0!
Olfr1506 257665	-3.757316667	0.170446566	1	#DIV/0!
Stil 20460	-3.757316667	0.170446566	1	#DIV/0!
Gm3002 100040852	-3.757316667	0.170446566	1	#DIV/0!
Slc24a4 238384	-3.757316667	0.170446566	1	#DIV/0!
6330545A04Rik 76166	-3.757316667	0.170446566	1	#DIV/0!
Flg2 229574	-3.757316667	0.170446566	1	#DIV/0!
Trim43c 666731	-3.757316667	0.170446566	1	#DIV/0!
Sacs 50720	-3.757316667	0.170446566	1	#DIV/0!
Aspn 66695	-3.757316667	0.170446566	1	#DIV/0!
Hmgcll1 208982	-3.757316667	0.170446566	1	#DIV/0!
Ppfia3 76787	-3.757316667	0.170446566	1	#DIV/0!
Kcnj12 16515	-3.757316667	0.170446566	1	#DIV/0!

Lrrc4 192198	-3.757316667	0.170446566	1	#DIV/0!
Entpd3 215446	-3.757316667	0.170446566	1	#DIV/0!
3110035E14Rik 76982	-3.757316667	0.170446566	1	#DIV/0!
Rgnf 110596	-3.757316667	0.170446566	1	#DIV/0!
Ano2 243634	-3.757316667	0.170446566	1	#DIV/0!
Magi2 50791	-3.757316667	0.170446566	1	#DIV/0!
C1ql4 239659	-3.757316667	0.170446566	1	#DIV/0!
Pdzd7 212684	-3.757316667	0.170446566	1	#DIV/0!
Nipsnap3a 73398	-3.757316667	0.170446566	1	#DIV/0!
Cst9 13013	-3.757316667	0.170446566	1	#DIV/0!
Gm14164 791417	-3.757316667	0.170446566	1	#DIV/0!
Gm13154 433804	-3.757316667	0.170446566	1	#DIV/0!
5031434O11Rik 100039684	-3.757316667	0.170446566	1	#DIV/0!
Tas2r126 387353	-3.757316667	0.170446566	1	#DIV/0!
Ccdc7 74703	-3.757316667	0.170446566	1	#DIV/0!
Hctr1 230777	-3.757316667	0.170446566	1	#DIV/0!
Rph3a 19894	-3.757316667	0.170446566	1	#DIV/0!
Ankrd32 105377	-3.763436835	0.079830056	-7.725	0.072984714
Kif18a 228421	-3.783486464	0.074070559	-11.79098333	0.044340227
Nr3c2 110784	-3.786453319	0.059532397	-2.436615709	0.096117552
Serpina7 331535	-3.78662814	0.036592561	-2.780152612	0.06421625
Spag17 74362	-3.802083333	0.170446566	1	#DIV/0!
Car3 12350	-3.805007256	0.042683101	-3.957832631	0.000806178
Tnc 21923	-3.828148571	0.080801914	-6.38098	0.020002315
Ccdc92 215707	-3.831116667	0.058469763	-12.46038	0.00415976
Prdx6b 320769	-3.842759522	0.035764925	-11.32618	0.006284669
Ccdc85c 668158	-3.84780617	0.007468245	-5.973314477	0.005337981
Pcdhga7 93715	-3.866666667	0.170446566	1	#DIV/0!
Cpe 12876	-3.867731421	0.120927163	-8.6996	0.024337076
Mthfd2l 665563	-3.868771629	0.145255652	-5.68578	0.079282153
Tff2 21785	-3.884686127	0.227397646	1	#DIV/0!
Cxcr5 12145	-3.898949654	0.144309579	-4.58098	0.070596339
Kcng2 240444	-3.899017143	0.073294895	-7.64656	0.072618354
Pou2f1 18986	-3.909903987	0.01383886	-3.909903987	0.01383886
Gpr135 238252	-3.910222857	0.110885741	-5.68578	0.079282153
Tssk4 71099	-3.913834286	0.220458896	1	#DIV/0!
Pcsk9 100102	-3.926378226	0.02320206	-2.402670307	0.003424212
Zfp800 627049	-3.934884706	0.066180567	-27.8721	0.028446391
Ankrd13d 68423	-3.93868	0.058090855	-7.53538	0.026553614
Mylpf 17907	-3.950974939	0.012374846	-14.57554	5.88971E-05
Tas1r2 83770	-3.967316667	0.072480209	-3.967316667	0.072480209
Ly6g5b 266614	-3.967316667	0.072480209	-3.967316667	0.072480209
Gpr27 14761	-3.967316667	0.072480209	-3.967316667	0.072480209
Serpini1 20713	-3.967316667	0.072480209	-3.967316667	0.072480209
Ccr3 12771	-3.967316667	0.072480209	-3.967316667	0.072480209
BC030476 239368	-3.967316667	0.072480209	-3.967316667	0.072480209
Inpp5j 170835	-3.967316667	0.072480209	-3.967316667	0.072480209
Cacna1i 239556	-3.967316667	0.072480209	-3.967316667	0.072480209
3110021A11Rik 67289	-3.967316667	0.072480209	-3.967316667	0.072480209
Fam154b 330577	-3.967316667	0.072480209	-3.967316667	0.072480209
Tro 56191	-3.967316667	0.072480209	-3.967316667	0.072480209
DXBay18 574405	-3.967316667	0.072480209	-3.967316667	0.072480209
Ccr9 12769	-3.968502857	0.053196162	-7.88976	0.029636667

Gjc1 14615	-3.969828571	0.058185722	-7.5452	0.025671227
Kif13b 16554	-3.973451163	0.080569928	-2.168712143	0.103339441
Cd177 68891	-3.98415	0.072501035	-3.98415	0.072501035
Lox 16948	-3.98415	0.072501035	-3.98415	0.072501035
Tbx4 21387	-3.98415	0.072501035	-3.98415	0.072501035
Pcdhb17 93888	-3.98415	0.072501035	-3.98415	0.072501035
B3gnt6 272411	-3.98415	0.072501035	-3.98415	0.072501035
Zfp459 328274	-3.98415	0.072501035	-3.98415	0.072501035
Sit1 54390	-3.98415	0.072501035	-3.98415	0.072501035
Fmod 14264	-3.984164185	0.001858819	-3.984164185	0.001858819
Vav3 57257	-4.000996667	0.131062407	-8.38098	0.03489567
Ptpn22 19260	-4.007028571	0.072378198	-7.7746	0.072687134
Tbx20 57246	-4.007028571	0.072378198	-7.7746	0.072687134
Tlr7 170743	-4.01231643	0.025882697	-12.50411667	0.010000955
Caps2 353025	-4.016833333	0.072468013	-4.016833333	0.072468013
4732415M23Rik 320869	-4.016833333	0.072468013	-4.016833333	0.072468013
Clic3 69454	-4.016833333	0.072468013	-4.016833333	0.072468013
2900002K06Rik 70226	-4.016833333	0.072468013	-4.016833333	0.072468013
BB123696 105404	-4.016833333	0.072468013	-4.016833333	0.072468013
Shank1 243961	-4.016833333	0.072468013	-4.016833333	0.072468013
Peg12 27412	-4.016833333	0.072468013	-4.016833333	0.072468013
Chrna4 11438	-4.016833333	0.072468013	-4.016833333	0.072468013
4933403G14Rik 74393	-4.016833333	0.072468013	-4.016833333	0.072468013
9430060I03Rik 100037260	-4.017333333	0.072500935	-4.017333333	0.072500935
Fam57a 116972	-4.027877354	0.033211771	-2.926135751	0.053529524
Hace1 209462	-4.028654921	0.036356264	-6.990550505	0.02980384
Fam151a 230579	-4.031371283	0.04138522	-18.08462821	0.016396663
B3gnt9-ps 97440	-4.045849493	0.056054929	-4.990597974	0.062871287
Mtbp 105837	-4.100059906	0.032041164	-6.864031618	0.027260213
Abca17 381072	-4.1013	0.170446566	1	#DIV/0!
Wscd2 320916	-4.1013	0.170446566	1	#DIV/0!
Padi4 18602	-4.1013	0.170446566	1	#DIV/0!
Gm10046 100043229	-4.1013	0.170446566	1	#DIV/0!
Zfp712 78251	-4.1013	0.170446566	1	#DIV/0!
Ikzf3 22780	-4.1013	0.170446566	1	#DIV/0!
Prrg1 546336	-4.1013	0.170446566	1	#DIV/0!
3110079015Rik 73234	-4.1013	0.170446566	1	#DIV/0!
Tagap 72536	-4.105815747	0.059219726	-9.6606	0.02250222
Chml 12663	-4.106547394	0.011374079	-5.819498074	0.008325994
Ggt7 207182	-4.132142138	0.024778656	-29.43173333	0.00493151
Aff3 16764	-4.132575874	0.051944503	-15.74311667	0.027477208
Tyro3 22174	-4.14312	0.157863084	-3.9746	0.173296754
Hdgfrp3 29877	-4.158125202	0.04781766	-5.40412236	0.027479211
4933437F05Rik 71275	-4.166666667	0.170446566	1	#DIV/0!
Gal3st2 381334	-4.166666667	0.170446566	1	#DIV/0!
1700026L06Rik 69987	-4.166666667	0.170446566	1	#DIV/0!
Rab15 104886	-4.166666667	0.170446566	1	#DIV/0!
Gm14492 677289	-4.166666667	0.170446566	1	#DIV/0!
Cdc6 23834	-4.166666667	0.170446566	1	#DIV/0!
Lca5 75782	-4.166666667	0.170446566	1	#DIV/0!
Lrrc8b 433926	-4.166666667	0.170446566	1	#DIV/0!
9330175E14Rik 320377	-4.166666667	0.170446566	1	#DIV/0!
Meox1 17285	-4.166666667	0.170446566	1	#DIV/0!

Vmn1r90 627280	-4.166666667	0.170446566	1	#DIV/0!
Gen1 209334	-4.166666667	0.170446566	1	#DIV/0!
Zfa 22639	-4.166666667	0.170446566	1	#DIV/0!
Olf920 258783	-4.166666667	0.170446566	1	#DIV/0!
Hepacam 72927	-4.166666667	0.170446566	1	#DIV/0!
Osm 18413	-4.166666667	0.170446566	1	#DIV/0!
Zfp808 630579	-4.166666667	0.170446566	1	#DIV/0!
Gprasp2 245607	-4.166666667	0.170446566	1	#DIV/0!
Gja10 14610	-4.166666667	0.170446566	1	#DIV/0!
Scube2 56788	-4.166666667	0.170446566	1	#DIV/0!
Slc39a10 227059	-4.17042407	0.060649645	-9.68976	0.005314071
Crybb3 12962	-4.185571416	0.026568015	-16.65013333	0.009431887
Atp10a 11982	-4.189742857	0.07576674	-7.64656	0.072618354
6530402F18Rik 76220	-4.190315477	0.031462601	-7.01513114	0.027246689
Ms4a4c 64380	-4.194345334	0.002219971	-4.788455993	0.000233968
Dgkg 110197	-4.200333333	0.170446566	1	#DIV/0!
Rpl39l 68172	-4.200333333	0.170446566	1	#DIV/0!
St8sia2 20450	-4.200333333	0.170446566	1	#DIV/0!
Igsf1 209268	-4.200333333	0.170446566	1	#DIV/0!
Casq2 12373	-4.200333333	0.170446566	1	#DIV/0!
Caly 68566	-4.200333333	0.170446566	1	#DIV/0!
Dnahc17 69926	-4.200333333	0.170446566	1	#DIV/0!
Trim69 70928	-4.200333333	0.170446566	1	#DIV/0!
Ms4a1 12482	-4.200333333	0.170446566	1	#DIV/0!
Pcdhb5 93876	-4.200333333	0.170446566	1	#DIV/0!
Gnaz 14687	-4.200333333	0.170446566	1	#DIV/0!
Eif2c3 214150	-4.211428571	0.023316371	-12.28333333	0.010495633
Pitpnm3 327958	-4.236894741	0.041320968	-9.5948	0.027916032
Tssk6 83984	-4.259687891	0.084422417	-13.27503333	0.061241107
Prr22 224908	-4.264899556	0.021023564	-28.9404	0.00426534
Mybpc3 17868	-4.311814788	0.10764473	-6.60118	0.089542423
Atp8b4 241633	-4.315142462	0.04712525	-21.13715	0.022968078
Moap1 64113	-4.343321901	0.221721953	2.44286	0.173296754
Efha2 78506	-4.406902121	0.019363604	-10.48058	0.003988962
Gm3417 100041586	-4.413441822	0.076654802	-2.76078	0.173296754
Cep170 545389	-4.429162435	0.033163075	-31.5473	0.01175898
Tnni3 21954	-4.441534446	0.218797203	1	#DIV/0!
Sult2a7 638251	-4.508294439	0.003632886	-4.837219759	0.003954989
6430562O15Rik 320893	-4.516666667	0.170446566	1	#DIV/0!
Ccdc48 58229	-4.534497143	0.01932204	-13.22561667	0.009603687
Prss50 235631	-4.585345473	0.06717417	-11.43774	0.066710478
Sqle 20775	-4.600024978	0.035396829	-2.584234184	0.016843922
1500004A13Rik 319830	-4.623339693	0.054638186	-5.129565848	0.001788852
Mzf1 109889	-4.709622547	0.010129409	-22.28176	9.71651E-05
Zfp69 381549	-4.736897674	0.031167344	-18.8433	0.01666352
Grk4 14772	-4.737557892	0.032989512	-10.6996	0.021466055
40971 320253	-4.801838452	0.023445101	-19.10163333	0.011400496
Matk 17179	-4.81141617	0.040162457	-12.44136	0.003844518
Cacna1a 12286	-4.830657143	0.100023492	-6.38098	0.020002315
D630029K05Rik 103175	-4.904816667	0.080654503	-2.76078	0.148332518
Pla2g4f 271844	-4.904816667	0.080654503	-2.76078	0.148332518
Ephx4 384214	-4.904816667	0.080654503	-2.76078	0.148332518
Kcnd1 16506	-4.9375	0.079997504	-2.8	0.148332518

5730577103Rik 66662	-4.9375	0.079997504	-2.8	0.148332518
Parp8 52552	-4.9375	0.079997504	-2.8	0.148332518
Gal3st3 545276	-4.9375	0.079997504	-2.8	0.148332518
Trpv1 193034	-4.9375	0.079997504	-2.8	0.148332518
Cd209a 170786	-4.9375	0.079997504	-2.8	0.148332518
Mageb3 17147	-4.9375	0.079997504	-2.8	0.148332518
Ptgir 19222	-4.94615	0.08117076	-2.76078	0.148332518
Fndc8 78919	-4.94615	0.08117076	-2.76078	0.148332518
Sh3d20 70559	-4.94615	0.08117076	-2.76078	0.148332518
BC006965 217294	-4.94615	0.08117076	-2.76078	0.148332518
Alox5 11689	-4.94615	0.08117076	-2.76078	0.148332518
Fam171b 241520	-4.94615	0.08117076	-2.76078	0.148332518
AA474331 213332	-4.94615	0.08117076	-2.76078	0.148332518
Rmrp 19782	-4.94615	0.08117076	-2.76078	0.148332518
B230319C09Rik 320775	-4.94615	0.08117076	-2.76078	0.148332518
Hrasls 27281	-4.94615	0.08117076	-2.76078	0.148332518
Ect2l 100039660	-4.94615	0.08117076	-2.76078	0.148332518
Rbl1 19650	-4.952504466	0.010835139	-12.46038	0.00415976
Gprc5a 232431	-4.954333333	0.079673302	-2.8202	0.148332518
Ano5 233246	-4.954333333	0.079673302	-2.8202	0.148332518
Necab3 56846	-4.954333333	0.079673302	-2.8202	0.148332518
Panx2 406218	-4.954333333	0.079673302	-2.8202	0.148332518
Rell2 225392	-4.960316667	0.170446566	1	#DIV/0!
1700001J03Rik 69282	-4.978833333	0.080496976	-2.8	0.148332518
Ccl22 20299	-4.978833333	0.080496976	-2.8	0.148332518
Ect2 13605	-4.978833333	0.080496976	-2.8	0.148332518
Slc2a12 353169	-4.978833333	0.080496976	-2.8	0.148332518
Sidt1 320007	-4.995666667	0.080164031	-2.8202	0.148332518
Fam13c 71721	-4.995666667	0.080164031	-2.8202	0.148332518
Barx2 12023	-4.995666667	0.080164031	-2.8202	0.148332518
Zmynd10 114602	-4.995666667	0.080164031	-2.8202	0.148332518
Ipcef1 320495	-4.995666667	0.080164031	-2.8202	0.148332518
2310010M20Rik 69576	-4.995666667	0.080164031	-2.8202	0.148332518
Cdkn2b 12579	-4.995666667	0.080164031	-2.8202	0.148332518
Rccd1 269955	-5.048451727	0.010992564	-11.19259596	0.007584192
Pde5a 242202	-5.075705142	0.018679422	-19.33598333	0.009621034
Dpf1 29861	-5.100686682	0.01002458	-12.82514	0.003882869
Pcdhga2 93710	-5.104166667	0.170446566	1	#DIV/0!
Nkx6-2 14912	-5.112474817	0.06949652	-2.775680432	0.078579103
Wee1 22390	-5.139616667	0.058644094	-16.8377	0.054336293
Clstn2 64085	-5.224633333	0.084711076	-2.76078	0.148332518
Cited1 12705	-5.224633333	0.084711076	-2.76078	0.148332518
Fzd9 14371	-5.224633333	0.084711076	-2.76078	0.148332518
Tspo2 70026	-5.224633333	0.084711076	-2.76078	0.148332518
Scn10a 20264	-5.224633333	0.084711076	-2.76078	0.148332518
Efn4 13639	-5.224633333	0.084711076	-2.76078	0.148332518
Zfp521 225207	-5.224633333	0.084711076	-2.76078	0.148332518
Gm13242 100041379	-5.224633333	0.084711076	-2.76078	0.148332518
Adamts12 239337	-5.224633333	0.084711076	-2.76078	0.148332518
Gipc3 209047	-5.224633333	0.084711076	-2.76078	0.148332518
Uhrf1 18140	-5.224633333	0.084711076	-2.76078	0.148332518
Podnl1 244550	-5.232446089	0.033607249	-14.45118	0.015946801
Rnf32 56874	-5.257316667	0.08394264	-2.8	0.148332518

Zbtb3 75291	-5.257316667	0.08394264	-2.8	0.148332518
Slc6a4 15567	-5.257316667	0.08394264	-2.8	0.148332518
Pask 269224	-5.257316667	0.08394264	-2.8	0.148332518
Fam196a 627214	-5.257316667	0.08394264	-2.8	0.148332518
Slc25a2 83885	-5.257316667	0.08394264	-2.8	0.148332518
Melk 17279	-5.257316667	0.08394264	-2.8	0.148332518
Hmgn3 94353	-5.257316667	0.08394264	-2.8	0.148332518
Garnl3 99326	-5.257316667	0.08394264	-2.8	0.148332518
Cd209c 170776	-5.257316667	0.08394264	-2.8	0.148332518
Kcnk4 16528	-5.27415	0.083560145	-2.8202	0.148332518
Ttl12 100216474	-5.27415	0.083560145	-2.8202	0.148332518
Me3 109264	-5.27415	0.083560145	-2.8202	0.148332518
Akr1c1 70861	-5.27415	0.083560145	-2.8202	0.148332518
Tmem59l 67937	-5.27415	0.083560145	-2.8202	0.148332518
Prss30 30943	-5.27415	0.083560145	-2.8202	0.148332518
Myom2 17930	-5.27415	0.083560145	-2.8202	0.148332518
Ly6g6c 68468	-5.27415	0.083560145	-2.8202	0.148332518
Tubb2b 73710	-5.31165	0.072540194	-5.31165	0.072540194
1700029I01Rik 70005	-5.341202015	0.162567817	-3.9746	0.173296754
Gabbr2 242425	-5.433939815	0.025372958	-6.184243646	0.006359085
Blnc 17060	-5.450616667	0.003911042	-27.25308333	0.000855779
D6Mm5e 110958	-5.6013	0.088228602	-2.8	0.148332518
Zmynd17 74843	-5.633983333	0.089892176	-2.76078	0.148332518
Boc 117606	-5.633983333	0.089892176	-2.76078	0.148332518
Fktn 246179	-5.662454594	0.040372478	-14.53018	0.016384346
Rasl10a 75668	-5.66765	0.090309247	-2.76078	0.148332518
Gm12839 631037	-5.66765	0.090309247	-2.76078	0.148332518
Cdx4 12592	-5.66765	0.090309247	-2.76078	0.148332518
Cd209f 69142	-5.676888205	0.028110088	-16.57276	0.023349923
Lrrc17 74511	-5.6835	0.08860069	-2.8202	0.148332518
Cd8a 12525	-5.700333333	0.089443396	-2.8	0.148332518
Gpr3 14748	-5.7353	0.170446566	1	#DIV/0!
Meig1 104362	-5.7353	0.170446566	1	#DIV/0!
Il27 246779	-5.7353	0.170446566	1	#DIV/0!
Rhox8 434768	-5.7353	0.170446566	1	#DIV/0!
Tmem150c 231503	-5.7353	0.170446566	1	#DIV/0!
4933431E20Rik 329735	-5.782027982	0.001213507	-11.62448348	0.000814706
Sult2a3 629203	-5.786906996	0.05022558	-24.90022	0.012979003
Trpm6 225997	-5.826863696	0.12925353	-7.815	0.072872131
Uprt 331487	-5.833333333	0.170446566	1	#DIV/0!
F830002L21Rik 414125	-5.833333333	0.170446566	1	#DIV/0!
Fut4 14345	-5.833333333	0.170446566	1	#DIV/0!
Gli2 14633	-5.833333333	0.170446566	1	#DIV/0!
Fv1 14349	-5.833333333	0.170446566	1	#DIV/0!
A430093F15Rik 403202	-5.833333333	0.170446566	1	#DIV/0!
Flnc 68794	-5.861702857	0.112981056	-7.81754	0.173296754
D630003M21Rik 228846	-5.863159219	0.011675226	-4.247235302	0.003274015
Ckmt2 76722	-5.883833333	0.170446566	1	#DIV/0!
Myh3 17883	-5.916333333	0.072473362	-5.916333333	0.072473362
Fgf9 14180	-5.916333333	0.072473362	-5.916333333	0.072473362
1700019B03Rik 76406	-5.916333333	0.072473362	-5.916333333	0.072473362
Far2 330450	-6.005062912	0.042650456	-29.415	0.032516007
Sell 20343	-6.027504733	0.014722808	-14.46038	0.010822609

Gm5640 434797	-6.041666667	0.170446566	1	#DIV/0!
Dnahc11 13411	-6.041666667	0.170446566	1	#DIV/0!
Xlr3b 574437	-6.119783333	0.170446566	1	#DIV/0!
Tmem154 320782	-6.124333333	0.170446566	1	#DIV/0!
Dpep2 319446	-6.124333333	0.170446566	1	#DIV/0!
Cckar 12425	-6.124333333	0.170446566	1	#DIV/0!
Foxf1a 15227	-6.165848748	0.04891509	-6.165848748	0.04891509
0610039K10Rik 68386	-6.194816667	0.072975795	-6.194816667	0.072975795
Tbx19 83993	-6.194816667	0.072975795	-6.194816667	0.072975795
Sost 74499	-6.194816667	0.072975795	-6.194816667	0.072975795
Cspg5 29873	-6.194816667	0.072975795	-6.194816667	0.072975795
Creb5 231991	-6.194816667	0.072975795	-6.194816667	0.072975795
Col4a6 94216	-6.194816667	0.072975795	-6.194816667	0.072975795
Gabre 14404	-6.23615	0.072846013	-6.23615	0.072846013
C920009B18Rik 606736	-6.23615	0.072846013	-6.23615	0.072846013
1810062O18Rik 75602	-6.23615	0.072846013	-6.23615	0.072846013
Foxp3 20371	-6.266933333	0.072599614	-6.266933333	0.072599614
Hgf 15234	-6.348331429	0.019871512	-12.84416	0.004174475
Npl 74091	-6.376766175	0.025283065	-14.32352	0.023723069
Gpr183 321019	-6.404816667	0.03059946	-6.404816667	0.03059946
2010001M09Rik 69816	-6.404816667	0.03059946	-6.404816667	0.03059946
Zfp831 100043757	-6.404816667	0.03059946	-6.404816667	0.03059946
Zfp456 408065	-6.404816667	0.03059946	-6.404816667	0.03059946
Mmp28 118453	-6.404816667	0.03059946	-6.404816667	0.03059946
Sh2d5 230863	-6.44615	0.031032931	-6.44615	0.031032931
Nmnat2 226518	-6.44615	0.031032931	-6.44615	0.031032931
Srpx 51795	-6.44615	0.031032931	-6.44615	0.031032931
Sgip1 73094	-6.454333333	0.030184854	-6.454333333	0.030184854
Gm5409 386551	-6.47715	0.097710279	-2.8202	0.148332518
E130306D19Rik 230098	-6.495666667	0.030602242	-6.495666667	0.030602242
Fam109b 338368	-6.495666667	0.030602242	-6.495666667	0.030602242
Dbp 13170	-6.521435582	0.002826266	-5.365739851	0.002478306
4833424O15Rik 75769	-6.5388	0.074397793	-3.925	0.148332518
Lca5l 385668	-6.5388	0.074397793	-3.925	0.148332518
1700011H14Rik 67082	-6.5388	0.074397793	-3.925	0.148332518
Anxa8 11752	-6.580133333	0.074140319	-6.580133333	0.074140319
Fpr1 14293	-6.596058671	0.000136764	-6.596058671	0.000136764
Cacna1c 12288	-6.604166667	0.074741536	-3.925	0.148332518
D830031N03Rik 442834	-6.604166667	0.074741536	-3.925	0.148332518
Tmem35 67564	-6.6455	0.074462325	-3.9746	0.148332518
Snai3 30927	-6.679166667	0.0746359	-3.9746	0.148332518
Atp10b 319767	-6.681283333	0.170446566	1	#DIV/0!
5730522E02Rik 70626	-6.681283333	0.170446566	1	#DIV/0!
Thsd7b 210417	-6.681283333	0.170446566	1	#DIV/0!
BC055324 381306	-6.681283333	0.170446566	1	#DIV/0!
Ctnna2 12386	-6.681283333	0.170446566	1	#DIV/0!
Il1rl1 17082	-6.681283333	0.170446566	1	#DIV/0!
Onecut3 246086	-6.681283333	0.170446566	1	#DIV/0!
4921536K21Rik 67430	-6.681283333	0.170446566	1	#DIV/0!
Tpsb2 17229	-6.681283333	0.170446566	1	#DIV/0!
Olr1 108078	-6.681283333	0.170446566	1	#DIV/0!
Pcdh15 11994	-6.681283333	0.170446566	1	#DIV/0!
1600014K23Rik 71996	-6.681283333	0.170446566	1	#DIV/0!

Gm12359 100037262	-6.724633333	0.034159916	-4.56078	0.051959117
Pax5 18507	-6.741466667	0.033983246	-4.58098	0.051978224
Asb4 65255	-6.741466667	0.033983246	-4.58098	0.051978224
5730408K05Rik 67531	-6.741466667	0.033983246	-4.58098	0.051978224
Klrg2 74253	-6.858616667	0.07292953	-6.858616667	0.07292953
Xkrx 331524	-6.858616667	0.07292953	-6.858616667	0.07292953
Gm11346 76024	-6.923983333	0.073108617	-6.923983333	0.073108617
6030419C18Rik 319477	-6.923983333	0.073108617	-6.923983333	0.073108617
Krt80 74127	-7.082420322	0.009347013	-21.3085	0.002423147
Mb 17189	-7.1122456	0.169575856	-2.777151865	0.10836643
Slc22a28 434674	-7.181866667	0.090606899	-3.32	0.148332518
Gm88 224813	-7.2353	0.105817953	-2.8	0.148332518
Cdkl4 381113	-7.267966667	0.07247851	-7.267966667	0.07247851
Kctd14 233529	-7.267966667	0.07247851	-7.267966667	0.07247851
Kcna2 16490	-7.350166667	0.10621631	-2.8202	0.148332518
Kif19a 286942	-7.35115	0.108071376	-2.76078	0.148332518
Fank1 66930	-7.38365	0.029242748	-7.38365	0.029242748
Slc35f2 72022	-7.433166667	0.028728557	-7.433166667	0.028728557
4921517L17Rik 70873	-7.43435	0.072497133	-7.43435	0.072497133
Cdhr2 268663	-7.5	0.170446566	1	#DIV/0!
Prrg4 228413	-7.5	0.170446566	1	#DIV/0!
Rundc3b 242819	-7.541666667	0.108485978	-2.8	0.148332518
2610203C22Rik 72481	-7.541666667	0.108485978	-2.8	0.148332518
Hrc 15464	-7.567333333	0.170446566	1	#DIV/0!
Tceal3 594844	-7.624316667	0.048963139	-7.624316667	0.048963139
Gm10565 100038693	-7.624333333	0.109174211	-2.8	0.148332518
Barx1 12022	-7.641166667	0.108702169	-2.8202	0.148332518
Ccdc160 434778	-7.703466667	0.030520559	-7.703466667	0.030520559
Stac2 217154	-7.703466667	0.030520559	-7.703466667	0.030520559
Cyt1 231162	-7.73615	0.030148108	-7.73615	0.030148108
Nphp4 260305	-7.73615	0.030148108	-7.73615	0.030148108
Fgf13 14168	-7.73615	0.030148108	-7.73615	0.030148108
Dok7 231134	-7.752983333	0.029962697	-7.752983333	0.029962697
Mylk3 213435	-7.752983333	0.029962697	-7.752983333	0.029962697
Gnai1 14677	-7.897097143	0.092023903	-23.0332	0.093667967
Obscn 380698	-8.0388	0.03215127	-8.0388	0.03215127
Mst1r 19882	-8.080133333	0.032113161	-8.080133333	0.032113161
Trappc2 66226	-8.112816667	0.032953773	-8.112816667	0.032953773
Plekhh1 211945	-8.135866667	0.095562058	-3.46	0.148332518
Pcdhga9 93717	-8.1371	0.082303856	-4.11372	0.148332518
Dlk2 106565	-8.1486	0.114390887	-2.76078	0.148332518
Nyx 236690	-8.1486	0.114390887	-2.76078	0.148332518
Tet1 52463	-8.162333333	0.032338998	-8.162333333	0.032338998
Has3 15118	-8.181283333	0.113485384	-2.8	0.148332518
Eef1a2 13628	-8.198116667	0.113024445	-2.8202	0.148332518
Mir1941 100316694	-8.198116667	0.113024445	-2.8202	0.148332518
Egr2 13654	-8.270833333	0.08665517	-3.925	0.148332518
Leprel1 210530	-8.3913	0.032927758	-8.3913	0.032927758
Gli3 14634	-8.440816667	0.032305977	-8.440816667	0.032305977
Sfxn4 94281	-8.440816667	0.032305977	-8.440816667	0.032305977
Parm1 231440	-8.440816667	0.032305977	-8.440816667	0.032305977
Hnf4g 30942	-8.561833333	0.088869733	-3.925	0.148332518
Mecom 14013	-8.59065	0.08234736	-4.30878	0.148332518

Gypa 14934	-8.67365	0.024954816	-8.67365	0.024954816
9530009M10Rik 320856	-8.67365	0.024954816	-8.67365	0.024954816
Gm6644 626009	-8.689147434	0.144845475	-2.64314	0.173296754
Rab3c 67295	-8.702283333	0.073152949	-8.702283333	0.073152949
Sp7 170574	-8.769833333	0.170446566	1	#DIV/0!
Angpt4 11602	-8.798983333	0.08375992	-4.30878	0.148332518
Dpysl4 26757	-8.801633333	0.033258491	-8.801633333	0.033258491
Sstr2 20606	-8.900483333	0.007764865	-8.900483333	0.007764865
Cldn4 12740	-8.900483333	0.007764865	-8.900483333	0.007764865
Gm6524 624710	-9.017633333	0.025878741	-9.017633333	0.025878741
Pln 18821	-9.033666667	0.077981353	-4.8404	0.148332518
At1 73991	-9.0585	0.061817996	-4.6202	0.051947928
Actn2 11472	-9.067333333	0.119319775	-2.8	0.148332518
Bdkrb2 12062	-9.083	0.026114379	-9.083	0.026114379
Ttc26 264134	-9.083	0.026114379	-9.083	0.026114379
Mpp3 13384	-9.09165	0.063731618	-4.56078	0.051959117
Hist1h2be 319179	-9.09885	0.084656217	-4.37894	0.148332518
Ghrhr 14602	-9.178966667	0.008580774	-9.178966667	0.008580774
Ak1 11636	-9.203466667	0.008716537	-9.203466667	0.008716537
Frem1 329872	-9.21165	0.008437944	-9.21165	0.008437944
Ndn 17984	-9.21165	0.008437944	-9.21165	0.008437944
Dennd2c 329727	-9.2203	0.008644074	-9.2203	0.008644074
4921507P07Rik 70821	-9.361483333	0.025742591	-9.361483333	0.025742591
Lrrn4 320974	-9.361483333	0.025742591	-9.361483333	0.025742591
Gm14391 665001	-9.362020513	0.038380913	-9.14482	0.035522074
Cdca7l 217946	-9.402816667	0.025620866	-9.402816667	0.025620866
Zfp385c 278304	-9.494766667	0.077438686	-5.11372	0.148332518
Gm4956 241041	-9.60515	0.010493449	-9.60515	0.010493449
Sst 20604	-9.605266667	0.170446566	1	#DIV/0!
Nr2c2 22026	-9.637950515	0.122650282	-11.66406	0.117632635
Tmem229a 319832	-9.730966667	0.045494217	-5.7948	0.059069839
4921506M07Rik 70846	-9.73815	0.047552281	-5.68578	0.059527684
D130017N08Rik 320064	-9.908133333	0.010556556	-9.908133333	0.010556556
A230072E10Rik 331547	-9.918783333	0.091274433	-4.30878	0.148332518
Nfkbid 243910	-9.987816667	0.049134567	-5.73538	0.060010083
Nusap1 108907	-10.061833333	0.049761807	-5.725	0.058914492
Zc3hav1l 209032	-10.14115	0.045029246	-6.10878	0.062608491
Rftn2 74013	-10.161433333	0.031931373	-6.8996	0.051952835
Cd8b1 12526	-10.500983333	0.04290035	-6.60118	0.068626797
Fabp3 14077	-10.53465	0.078560485	-4.56078	0.051959117
Zfp879 214779	-10.618783333	0.054943378	-5.725	0.058914492
Abp1 76507	-10.7203	0.001087301	-12.66436	1.46142E-05
Zfp455 218311	-10.742	0.043882614	-6.6404	0.067804405
Olf1372-ps1 257871	-10.742	0.043882614	-6.6404	0.067804405
Gbp1 14468	-10.749666667	0.036080215	-6.8996	0.051952835
Pcdhgb2 93700	-10.952083333	0.077077642	-5.8625	0.148332518
Popdc2 64082	-11.165433333	0.037346851	-6.38098	0.011940725
Sulf1 240725	-11.31915	0.036339011	-7.23378	0.052414049
Plcb4 18798	-11.31915	0.036339011	-7.23378	0.052414049
Gm514 208080	-11.40315	0.100270059	-4.30878	0.148332518
A730008H23Rik 212427	-11.5748	0.020092838	-7.88976	0.018871593
Lrrc19 100061	-11.640966667	0.000842659	-13.76916	5.27897E-06
Col23a1 237759	-11.640966667	0.000842659	-13.76916	5.27897E-06

Acss1 68738	-12.18448333	0.042466883	-12.18448333	0.042466883
D330028D13Rik 231946	-12.31295	0.001093475	-14.57554	1.49198E-05
Ccdc158 320696	-12.50816667	0.042679982	-12.50816667	0.042679982
Gm2518 100039957	-12.71621667	0.028161145	-12.71621667	0.028161145
Gabrb3 14402	-13.00465	0.007873374	-9.35558	0.001847968
Ckm 12715	-13.24861667	0.073170373	-13.24861667	0.073170373
Plat 18791	-13.72008333	0.018187122	-9.44656	0.017457321
Scai 320271	-13.75065	0.000811755	-16.30078	4.47165E-06
Btc 12223	-13.88365	0.02663959	-8.66038	0.015258085
Lef1 16842	-13.93316667	0.026152107	-8.7198	0.014875607
Myh7 140781	-13.99831667	0.170446566	1	#DIV/0!
Wnt2b 22414	-14.76428333	0.012568228	-10.6996	0.012963072
TTMUSG0000016609 66803	-14.85891667	0.122797642	-3.8707	0.148332518
P4ha3 320452	-15.01008333	0.052796595	-7.48578	0.016276578
Sema3d 108151	-15.4188	0.055611868	-8.50256	0.083078807
Dclk2 70762	-15.71263333	0.002211314	-15.71263333	0.002211314
Lypd1 72585	-16.91820917	0.097732253	-14.35212	0.151447022
Sssca1 56390	-17.79908085	0.076432971	-80.87961667	0.088053685
Cand2 67088	-18.02148333	0.002582566	-18.02148333	0.002582566
Cox6a2 12862	-18.19798333	0.075056505	-7.69616	0.053485125
Actc1 11464	-19.15151667	0.122312941	-4.8	0.148332518
Cyp2c55 72082	-19.94473333	0.019176112	-13.40736	0.017382437
Prrt2 69017	-20.3375	0.027087757	-20.3375	0.027087757
Myl3 17897	-21.66613333	0.098140694	-7.81754	0.148332518
Rnaset2a 100037283	-22.11666667	0.108584867	-6.8	0.148332518
Actg2 11468	-24.22515	0.170446566	1	#DIV/0!
Spna1 20739	-24.87213333	0.011000808	-24.87213333	0.011000808
Barhl1 54422	-27.67323333	0.001556458	-33.00788	4.79011E-05
Aard 239435	-27.97458333	0.000616649	-27.97458333	0.000616649
F830016B08Rik 240328	-37.69991667	0.016287056	-23.2399	6.55023E-05
Myl2 17906	-55.50071667	0.157784995	-3.9746	0.148332518
Myh6 17888	-55.97699429	0.154502989	-13.73766	0.026725499

Supplementary Table 2.

Category	Term	Count	%	PValue	Genes	List Total	Pop Hits	Pop Total	Fold Enrichment	Bonferroni	Benjamini	FDR
SP_PIR_KEYWORD	lipid synthesis	14	2.36	5.51E-06	SCD1, SCD2, ACACA, FDPS, LSS, SC4MOL, AWAT2, FAR2, AKR1C6, FASN, MVK, ELOVL6, IDI1, NSDHL	518	99	17854	4.87414687	0.0019	0.001934	0.0075
SP_PIR_KEYWORD	alternative splicing	174	29.3	9.58E-06	ZC3HAV1, LTBP3, INO80, GPAT2, BC018242, MAP3K4, ANK3, SBSN, SLC4A3, 1700029G01RIK, MATK, SLC12A7, POU2AF1, MYLK3, SLC22A23, RBL1, MLXIPL, OLA1, WDR90, BCL2L11, LAT2, SSTR2, TRIM35, TNNT1, SGSM1, PITPNM3, ZFP280D, 6530402F18RIK, BMP2K, MST1R, PGCP, TDRD3, AB124611, BBS7, A730008H23RIK, ASAP1, BDKRB2, DENND2C, SEMA5B, PVRL4, TRP53BP1, MEIS3, PDE6C, TTBK2, GMIP, SPATS2, PVRL3, CEP170, RCCD1, STAMBPL1, D330028D13RIK, OLFM1, 6030446N20RIK, FGD4, FN1, SGIP1, SREBF1, REEP6, OBSCN, AGBL3, ABCB9, CSTF2, AK1, TNFRSF13C, PPAPDC1B, HACE1, HGF, SHANK2, CCDC158, MMAB, FOXP2, AWAT2, ABCG8, SEMA6A, GGT6, SAP130, FREM1, CCDC151, MYO19, RGS9, COL20A1, ARSB, NRP2, PRPH, POU6F1, ELF3, AGTPBP1, CDC14B, BCAR1, PION, BC052040, ACOT3, TTLL11, FAR2, SRPX, SERAC1, MFAP1B, HOMEZ, MTBP, SPIB, ZC3HAV1L, RTEL1, CCDC88B, SP100, FBXL21, PRG4, NUP88, ACNAT1, GPRASP1, SCAI,	518	4481	17854	1.33838196	0.0034	0.001679	0.0131
KEGG_PATHWAY	mmu00982: Drug metabolism	11	1.85	5.12E-05	CYP2A22, CYP2C55, CYP2C44, ADH1, UGT1A5, MAOA, AOX1, CYP2A5, GSTT1, CYP2B13, GSTM6, CYP2C19, CYP2C9, CYP2C8, CYP2C17, PYROXD1, CYP2D11, LDHD, SC4MOL, FAR2, ADH1, AKR1C6, FASN, MICAL1, KDM3A, NSDHL, CYP2G1, SCD1, CHDH, CYP2C55, SCD2, CYP2D40, MAOA, CYP4F14, CYP2B13, CYB5B, GMPR, AKR1C20, TET1, HAO1, ABP1, CYP2A22, DHFR, SQLE, AKR1C19, AOX1, CYP2A5, AOX3, LEPREL1, AKR1D1	167	75	5738	5.03936128	0.0068	0.006787	0.0599
GOTERM_BP_FAT	GO:0055114 ~oxidation reduction	38	6.41	6.37E-05	SCD1, SCD2, ACACA, FDPS, LSS, SC4MOL, AWAT2, FAR2, AKR1C6, FASN, MVK, ELOVL6, IDI1, NSDHL	381	672	13588	2.01671666	0.1087	0.108696	0.1082

INTERPRO	IPRO11993:Pieckstrin homology-type	22	3.71	1.05E-04	ASAP1, E130306D19RIK, NUMBL, PRKD2, PLEKHA6, PLEKHG2, ADAP2, DOK3, DOK4, DAPP1, SH2D5, FAM109B, MFAP1B, DOK7, TBC1D4, SPRED3, EPB4.1L4B, PHLDB2, ARAP2, PRKD3, PLEKHA2, FGD4	513	289	17763	2.6358688	0.0912	0.091179	0.1637
GOTERM_BP_FAT	GO:0006694 ~steroid biosynthetic process	10	1.69	1.53E-04	HSD3B2, AKR1C6, FDPS, MVK, LSS, IDI1, AKR1D1, AKR1C20, SC4MOL, NSDHL	381	71	13588	5.02310451	0.2416	0.129158	0.26
KEGG_PATHWAY	mmu02010: ABC transporters	8	1.35	2.68E-04	ABCG8, ABCB9, ABCB1A, ABCD1, ABCA8A, ABCC4, ABCA2, ABCA3	167	45	5738	6.1083167	0.0351	0.017687	0.3133
SP_PIR_KEYWORDS	oxidoreductase	33	5.56	3.10E-04	HSD3B2, SC4MOL, CYP2C44, CYP2D11, PYROXD1, LDHD, SC4MOL, FAR2, ADH1, AKR1C6, FASN, KDM3A, NSDHL, CYP2G1, SCD1, CHDH, CYP2C55, SCD2, CYP2D40, MAOA, CYP4F14, CYP2B13, GMPR, TET1, HAO1, ABP1, CYP2A22, DHFR, SQLE, AOX1, CYP2A5, LEPREL1, AKR1D1	518	572	17854	1.98849124	0.1032	0.035649	0.4236

GOTERM_MF FAT	GO:0046872 ~metal ion binding	137	23.1	3.75E-04	SYT3, CAR5A, SYT7, ATP2B2, MAP3K4, SLC25A23, RGN, ZFP831, ZFP882, DDAH1, SLC12A7, CYP2C55, NUDT13, NCALD, MYLK3, ACTN1, CYP2B13, TRIM35, PITPNM3, ZFP280D, PDE5A, PGCP, CYP2C44, SFXN4, ASAP1, ZFP456, ZFP455, GMIP, STAMBPL1, DHX58, FGD4, SGIP1, SCD1, AGBL3, SCD2, CYP2D40, ESRRB, EFEMP2, ACACA, TREX1, MYLPF, TET1, FOXP2, PRPSAP2, ADAP2, FREM1, MTR, MZF1, SLC13A3, ZFHX2, IDI1, KLF1, ARSB, PILRB2, ACVRL1, LDLR, AGTPBP1, MMP28, GLI3, SC4MOL, ZKSCAN4, GM14391, PLCB4, STAC2, PROZ, SETMAR, ITIH4, ZFP354A, MICAL1, ZC3HAV1L, RTEL1, ZFP354B, ATP8B4, APCS, CAR14, CYB5B, GMPR, PRKD2, ZFP867, PKLR, CYP2A5, ERN1, SPNA1, LEPREL1, PRKD3, ZFP418, ZFP710, ZFP395, SORD, ZFP715, USP3, ZFP69, CD248, ZFP398, TRIM14, PML, TPCN2, DPF1, ZDHHC24, NR1D1, TCEA3, ADH1, FASN, ADAMTS10, PCSK9, KDM3A, SLC39A5, XAF1, SCNN1A, CAR1, THBS3, CHD3, CAR3, CYP2G1, PM20D1,	367	3850	13288	1.28840794	0.204	0.204016	0.5537
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GOTERM_MF FAT	GO:0043169 ~cation binding	138	23.3	3.80E-04	SYT3, CAR5A, SYT7, ATP2B2, MAP3K4, SLC25A23, RGN, ZFP831, ZFP882, DDAH1, SLC12A7, CYP2C55, NUDT13, NCALD, MYLK3, ACTN1, CYP2B13, TRIM35, PITPNM3, ZFP280D, PDE5A, PGCP, CYP2C44, SFXN4, ASAP1, ZFP456, ZFP455, GMIP, STAMBPL1, DHX58, FGD4, SGIP1, SCD1, AGBL3, SCD2, CYP2D40, ESRRB, EFEMP2, ACACA, TREX1, MYLPF, TET1, FOXP2, PRPSAP2, ADAP2, FREM1, MTR, MZF1, SLC13A3, ZFH2, IDI1, KLF1, ARSB, PILRB2, ACVRL1, LDLR, AGTPBP1, MMP28, GLI3, SC4MOL, ZKSCAN4, GM14391, PLCB4, STAC2, PROZ, SETMAR, ITIH4, ZFP354A, MICAL1, ZC3HAV1L, RTEL1, ZFP354B, ATP8B4, APCS, CAR14, CYB5B, GMPR, PRKD2, ZFP867, PKLR, CYP2A5, ERN1, SPNA1, LEPREL1, PRKD3, ZFP418, ZFP710, ZFP395, SORD, ZFP715, USP3, ZFP69, CD248, ZFP398, TRIM14, PML, TPCN2, DPF1, ZDHHC24, NR1D1, TCEA3, ADH1, FASN, ADAMTS10, PCSK9, KDM3A, SLC39A5, XAF1, SCNN1A, CAR1, THBS3, CHD3, CAR3, CYP2G1, PM20D1,	367	3885	13288	1.28612037	0.2064	0.109173	0.5611
INTERPRO	IPR008067:C ytochrome P450, E- class, group I, CYP2A-like	4	0.67	4.46E-04	CYP2G1, CYP2A22, CYP2C44, CYP2A5	513	6	17763	23.0838207	0.3341	0.183964	0.6944

GOTERM_MF FAT	GO:0043167 ion binding	139	23.4	4.54E-04	CYP2D11, SYT3, CAR5A, SYT7, ATP2B2, MAP3K4, SLC25A23, RGN, ZFP831, ZFP882, DDAH1, SLC12A7, CYP2C55, NUDT13, NCALD, MYLK3, ACTN1, CYP2B13, TRIM35, PITPNM3, ZFP280D, PDE5A, PGCP, CYP2C44, SFXN4, ASAP1, ZFP456, ZFP455, GMIP, STAMBPL1, DHX58, FGD4, SGIP1, SCD1, AGBL3, SCD2, CYP2D40, ESRRB, EFEMP2, ACACA, TREX1, MYLPF, TET1, FOXP2, PRPSAP2, ADAP2, FREM1, MTR, MZF1, SLC13A3, ZFHX2, IDI1, KLF1, ARSB, PILRB2, ACVRL1, LDLR, AGTPBP1, MMP28, GLI3, SC4MOL, ZKSCAN4, GM14391, PLCB4, STAC2, PROZ, SETMAR, ITIH4, ZFP354A, MICAL1, ZC3HAV1L, RTEL1, ZFP354B, ATP8B4, APCS, CAR14, CYB5B, GMPR, PRKD2, ZFP867, PKLR, CYP2A5, ERN1, SPNA1, LEPREL1, PRKD3, ZFP418, ZFP710, ZFP395, SORD, ZFP715, USP3, ZFP69, CD248, ZFP398, TRIM14, PML, TPCN2, DPF1, ZDHHC24, NR1D1, TCEA3, ADH1, FASN, ADAMTS10, PCSK9, KDM3A, SLC39A5, XAF1, SCNN1A, CAR1, THBS3, CHD3, CAR3, CYP2G1, PM20D1,	367	3934	13288	1.27930471	0.2414	0.087982	0.6701
INTERPRO	IPR017871:ABC transporter, conserved site	9	1.52	4.84E-04	ABCG8, ABP1, ABCB9, ABCB1A, ABCD1, ABCA8A, ABCC4, ABCA2, ABCA3	513	64	17763	4.86924342	0.3564	0.136623	0.7524
GOTERM_BP FAT	GO:0008202 steroid metabolic process	14	2.36	5.94E-04	SREBF1, HSD3B2, LDLR, FDPS, ABCA2, LSS, AKR1C20, SC4MOL, AKR1C6, PCSK9, MVK, IDI1, AKR1D1, NSDHL	381	161	13588	3.10122104	0.6576	0.300385	1.0035
INTERPRO	IPR003439:ABC transporter-like	8	1.35	7.76E-04	ABCG8, ABCB9, ABCB1A, ABCD1, ABCA8A, ABCC4, ABCA2, ABCA3	513	53	17763	5.22652543	0.5069	0.162027	1.2044
PIR_SUPERFAMILY	PIRSF005552:guanine nucleotide-binding protein 1	4	0.67	8.63E-04	GBP6, GBP10, GBP2, GBP1	211	8	8136	19.2796209	0.1779	0.177896	1.0979
INTERPRO	IPR002401:Cytochrome P450, E-class, group I	9	1.52	8.87E-04	CYP2G1, CYP2A22, CYP2C55, CYP2D40, CYP2C44, CYP2D11, CYP2A5, CYP4F14, CYP2B13	513	70	17763	4.4518797	0.5546	0.149362	1.3766

SP_PIR_KEYWORD	Steroid biosynthesis	7	1.18	9.52E-04	AKR1C6, FDPS, MVK, LSS, IDI1, SC4MOL, NSDHL	518	40	17854	6.03175676	0.2841	0.080173	1.2946
GOTERM_BP_FAT	GO:0008610 ~lipid biosynthetic process	19	3.2	0.001125	SCD1, HSD3B2, SCD2, ACACA, FDPS, LSS, GPAT2, AKR1C20, SC4MOL, AWAT2, FAR2, ACSM1, AKR1C6, FASN, MVK, ELOVL6, IDI1, AKR1D1, NSDHL	381	285	13588	2.3776028	0.869	0.398389	1.8947
SP_PIR_KEYWORD	iron	21	3.54	0.001143	CYP2G1, SCD1, CYP2C55, SCD2, CYP2D40, CYP2C44, CYP2D11, CYP2B13, SFXN4, CYP4F14, CYB5B, TET1, SC4MOL, CYP2A22, AOX1, CYP2A5, AOX3, KDM3A, LEPREL1, CYB5D1, RTEL1	518	321	17854	2.25486234	0.3307	0.077155	1.5528
GOTERM_MF_FAT	GO:0016712 ~oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen, reduced flavin or flavoprotein as one donor, and incorporation of one atom of oxygen	7	1.18	0.001221	CYP2G1, CYP2A22, CYP2C55, CYP2C44, CYP2D11, CYP2A5, CYP2B13	367	44	13288	5.76021798	0.5244	0.16954	1.7921
GOTERM_MF_FAT	GO:0005506 ~iron ion binding	21	3.54	0.001352	CYP2G1, SCD1, CYP2C55, SCD2, CYP2D40, CYP2C44, CYP2D11, CYP2B13, SFXN4, CYP4F14, CYB5B, TET1, SC4MOL, CYP2A22, AOX1, CYP2A5, AOX3, KDM3A, LEPREL1, CYB5D1, RTEL1	367	343	13288	2.21676027	0.5608	0.151714	1.9821
GOTERM_BP_FAT	GO:0016125 ~sterol metabolic process	9	1.52	0.001359	SREBF1, LDLR, FDPS, PCSK9, ABCA2, MVK, IDI1, SC4MOL, NSDHL	381	77	13588	4.16852439	0.9141	0.387912	2.2834

SP_PIR_KEYWORD	glycoprotein	133	22.4	0.001563	SLC44A3, AU040320, LTBP3, AQP8, LRTM1, BTC, TNFSF13, CD53, TLR7, KLHDC7A, GHRHR, OLFML3, BC018242, SLC2A2, S1PR5, VNN1, SLC4A3, SLC12A7, SLC22A23, TMEM132A, TMEM132E, SSTR2, CD37, RELT, ABCB1A, 6530402F18RIK, MST1R, PGCP, GLG1, AB124611, ABCA2, BDKRB2, SEMA5B, PVRL4, FOLR2, PVRL3, ICOS, OLFM1, FN1, PLAT, FKTN, CD8B1, EFEMP2, MET, CD300E, TNFRSF13C, HGF, FCGR1, SHANK2, LCN2, ABCG8, SEMA6A, GGT6, LAMA4, GGT7, LTB4R1, FREM1, SLC13A3, CHRD, COL20A1, ARSB, NRP2, PILRB2, NRP1, PODNL1, ACVRL1, LDLR, GYPA, LRRC19, SERPINA3F, PAX5, GABBR2, RAET1D, DNAJC16, SERPINA7, PROZ, SLC22A1, GPR97, PARM1, APCS, CAR14, CMKLR1, PRG4, IGFALS, CHST3, NFAM1, TMEM67, AMIGO3, CTSO, ERN1, NGFR, LEPREL1, FMOD, GPR183, HS3ST6, CSF1, CD248, ABCD1, GPR64, FPR1, CXCL9, COL27A1, UGT1A5, ADAMTS10, PCSK9, PKD1, SUCNR1, POPDC2, SLC39A5, SELPLG, SCNN1A, THBS3,	518	3600	17854	1.27337087	0.4225	0.087447	2.1176
INTERPRO	IPR001849:Pieckstrin homology	18	3.04	0.001573	OBSCN, ASAP1, TECPR1, E130306D19RIK, PRKD2, PLEKHA6, PLEKHG2, ADAP2, DOK3, DOK4, DAPP1, FAM109B, DOK7, PHLDB2, ARAP2, PRKD3, PLEKHA2, FGD4	513	261	17763	2.38798145	0.7617	0.212618	2.4279
INTERPRO	IPR003191:Guanilate-binding protein, C-terminal	4	0.67	0.001756	GBP6, GBP10, GBP2, GBP1	513	9	17763	15.3892138	0.7984	0.20451	2.7073
GOTERM_BP_FAT	GO:0006633 ~fatty acid biosynthetic process	9	1.52	0.001886	SCD1, AWAT2, FAR2, ACSM1, SCD2, FASN, ACACA, ELOVL6, SC4MOL	381	81	13588	3.96267133	0.9669	0.433292	3.156
GOTERM_BP_FAT	GO:0016053 ~organic acid biosynthetic process	12	2.02	0.002026	SCD1, AWAT2, FAR2, ACSM1, SCD2, DHFR, MTR, FASN, ACACA, ELOVL6, AKR1D1, SC4MOL	381	141	13588	3.03523762	0.9743	0.407207	3.3862
GOTERM_BP_FAT	GO:0046394 ~carboxylic acid biosynthetic process	12	2.02	0.002026	SCD1, AWAT2, FAR2, ACSM1, SCD2, DHFR, MTR, FASN, ACACA, ELOVL6, AKR1D1, SC4MOL	381	141	13588	3.03523762	0.9743	0.407207	3.3862

GOTERM_CC_FAT	GO:0005626 ~insoluble fraction	27	4.55	0.002079	CYP2D11, BCAR1, PML, GHRHR, ATP2B2, PLCB4, FOLR2, RAC2, ANK3, UGT1A5, SCNN1A, CYP2C55, ANKRA2, MET, IGFALS, CYP4F14, CYB5B, BCL2L11, SLC10A1, LIN7A, CYP2A22, SSTR2, SQLE, CYP2A5, CYFIP2, ABCC4, SLC13A3	336	528	12504	1.90300325	0.437	0.436994	2.7086
PIR_SUPERFAMILY	PIRSF000045 :cytochrome P450 CYP2D6	6	1.01	0.002146	CYP2G1, CYP2A22, CYP2C55, CYP2D11, CYP2A5, CYP2B13	211	36	8136	6.42654028	0.3859	0.216338	2.7104
SMART	SM00233:PH	18	3.04	0.002199	OBSCN, ASAP1, TECPR1, E130306D19RIK, PRKD2, PLEKHA6, PLEKHG2, ADAP2, DOK3, DOK4, DAPP1, FAM109B, DOK7, PHLDB2, ARAP2, PRKD3, PLEKHA2, FGD4	275	261	9131	2.28990596	0.3389	0.338852	2.6937
INTERPRO	IPR017973:C ytochrome P450, C-terminal region	9	1.52	0.002297	CYP2G1, CYP2A22, CYP2C55, CYP2D40, CYP2C44, CYP2D11, CYP2A5, CYP4F14, CYP2B13	513	81	17763	3.84730344	0.8769	0.230381	3.5264
UP_SEQ_FEATURE	splice variant	168	28.3	0.002595	ZC3HAV1, LTBP3, INO80, GPAT2, BC018242, MAP3K4, SBSN, SLC4A3, 1700029G01RIK, MATK, SLC12A7, MYLK3, SLC22A23, RBL1, MLXIPL, OLA1, WDR90, BCL2L11, LAT2, SSTR2, TRIM35, TNNT1, SGSM1, PITPNM3, ZFP280D, 6530402F18RIK, BMP2K, PGCP, TDRD3, AB124611, BBS7, A730008H23RIK, ASAP1, BDKRB2, DENND2C, SEMA5B, PVRL4, TRP53BP1, MEIS3, PDE6C, TTBK2, GMIP, SPATS2, PVRL3, CEP170, RCCD1, STAMBPL1, D330028D13RIK, OLFM1, 6030446N20RIK, FGD4, SGIP1, SREBF1, REEP6, OBSCN, AGBL3, ABCB9, CSTF2, AK1, TNFRSF13C, PPAPDC1B, ACACA, HACE1, HGF, SHANK2, CCDC158, MMAB, FOXP2, AWAT2, ABCG8, SEMA6A, GGT6, SAP130, FREM1, CCDC151, MYO19, RGS9, COL20A1, ARSB, NRP2, PRPH, POU6F1, ELF3, AGTPBP1, CDC14B, BCAR1, PION, BC052040, ACOT3, TTLL11, FAR2, SRPX, SERAC1, MFAP1B, HOMEZ, MTBP, SPIB, ZC3HAV1L, RTEL1, CCDC88B, SP100, FBXL21, PRG4, NUP88, ACNAT1, GPRASP1, SCAI, NUSAP1, LEF1, MPP7,	500	4448	16021	1.21021942	0.9826	0.982628	4.2445

GOTERM_CC_FAT	GO:0005624 ~membrane fraction	26	4.38	0.002631	CYP2D11, BCAR1, GHRHR, ATP2B2, PLCB4, FOLR2, RAC2, ANK3, UGT1A5, SCNN1A, CYP2C55, ANKRA2, MET, IGFALS, CYP4F14, CYB5B, BCL2L11, SLC10A1, LIN7A, CYP2A22, SSTR2, SQLE, CYP2A5, CYFIP2, ABCC4, SLC13A3	336	510	12504	1.89719888	0.5167	0.304789	3.4158
INTERPRO	IPR000483:Cysteine-rich flanking region, C-terminal	9	1.52	0.00268	FLRT1, LRRN4, GPR125, LRG1, LRTM1, LRRC19, IGFALS, PKD1, TLR7	513	83	17763	3.75459734	0.9132	0.237849	4.1026
GOTERM_BP_FAT	GO:0030879 ~mammary gland development	9	1.52	0.002758	ATP2B2, ELF3, CSF1, MET, PML, LEF1, GLI3, BCL2L11, GHRHR	381	86	13588	3.73228346	0.9932	0.463772	4.5836
GOTERM_MF_FAT	GO:0046906 ~tetrapyrrole binding	12	2.02	0.003075	CYP2G1, CYP2A22, CYP2C55, CYP2D40, CYP2C44, CYP2D11, MTR, CYP2A5, CYP4F14, CYP2B13, CYB5B, CYB5D1	367	151	13288	2.8773842	0.8463	0.268071	4.4544
GOTERM_MF_FAT	GO:0016765 ~transferase activity, transferring alkyl or aryl (other than methyl) groups	7	1.18	0.003229	CHML, MTR, FDPS, GSTT1, GSTT3, GSTM6, MMAB	367	53	13288	4.78206776	0.86	0.244902	4.6725
KEGG_PATHWAY	mmu00830: Retinol metabolism	8	1.35	0.003284	AWAT2, CYP2A22, CYP2C55, CYP2C44, ADH1, UGT1A5, CYP2A5, CYP2B13	167	68	5738	4.0422684	0.3543	0.135694	3.7732
GOTERM_BP_FAT	GO:0008203 ~cholesterol metabolic process	8	1.35	0.00334	SREBF1, LDLR, FDPS, PCSK9, ABCA2, MVK, IDI1, NSDHL	381	70	13588	4.07589051	0.9976	0.488773	5.5245
SMART	SM00082:LR RCT	9	1.52	0.003341	FLRT1, LRRN4, GPR125, LRG1, LRTM1, LRRC19, IGFALS, PKD1, TLR7	275	83	9131	3.6003943	0.467	0.26992	4.0673
INTERPRO	IPR001128:Cytochrome P450	9	1.52	0.003594	CYP2G1, CYP2A22, CYP2C55, CYP2D40, CYP2C44, CYP2D11, CYP2A5, CYP4F14, CYP2B13	513	87	17763	3.58197217	0.9624	0.279612	5.4654

GOTERM_MF _FAT	GO:0046914 ~transition metal ion binding	94	15.9	0.003633	PRKD2, LEPREL1, ZFP1711, AGTPBP1, CYP2D11, CAR5A, MMP28, GLI3, ZKSCAN4, SC4MOL, GM14391, STAC2, SETMAR, ZFP354A, ZFP831, MICAL1, ZC3HAV1L, ZFP882, DDAH1, ZFP354B, RTEL1, CYP2C55, CAR14, CYP2B13, CYB5B, PRKD2, TRIM35, ZFP867, ZFP280D, PDE5A, CYP2A5, PGCP, LEPREL1, PRKD3, ZFP710, ZFP418, ZFP395, SORD, USP3, ZFP715, CYP2C44, ZFP69, ZFP398, TRIM14, PML, ASAP1, SFXN4, ZFP456, ZFP455, DPF1, ZDHHC24, GMIP, NR1D1, TCEA3, ADH1, FASN, STAMBPL1, ADAMTS10, KDM3A, SLC39A5, XAF1, CAR1, DHX58, CAR3, FGD4, CHD3, SGIP1, CYP2G1, SCD1, AGBL3, SCD2, CYP2D40, ESRRB, PM20D1, 4931406C07RIK, ACACA, CYP4F14, XPNPEP3, TET1, FOXP2, CYP2A22, ABP1, ADAP2, ZFP182, MTR, AOX1, ZFP7, MZF1, AOX3, LIME1, ZFHX2, CYB5D1, KLF1, ARAP2	367	2608	13288	1.30500995	0.8906	0.241678	5.2434
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SP_PIR_KEYW ORDS	membrane	189	31.9	0.003725	AU040320, GPR125, SLC44A3, AQP8, LRTM1, CYP2D11, BTC, SYT3, CD209F, INTS1, TNFSF13, SYT7, CD53, GPAT2, TLR7, KLHDC7A, GHRHR, SLC35A4, ATP2B2, BC018242, SLC25A23, SLC2A2, S1PR5, SPRED3, VNN1, ELOVL6, TMEM185B, SLC4A3, TMEM14A, SLC12A7, CYP2C55, GOLT1B, TMIE, SLC22A23, TMEM132A, TMEM132E, BCL2L11, RND2, LAT2, SSTR2, CD37, PITPNM3, RELT, ABCB1A, 6530402F18RIK, TMEM184A, MST1R, GBP2, GBP1, GLG1, AB124611, TMEM199, BBS7, RABEPK, SFXN4, ASAP1, ABCA2, BDKRB2, ABCA3, SEMA5B, PVRL4, PDE6C, FOLR2, TTBK2, RAC2, PVRL3, ICOS, SLC35F2, 6030446N20RIK, BLNK, SREBF1, SCD1, REEP6, ABCB9, PRAF2, FKTN, SCD2, CD8B1, MAOA, MET, DENND1A, CD300E, TNFRSF13C, PPAPDC1B, REEP1, SHANK2, FCGR1, LIN7A, AWAT2, ABCG8, SEMA6A, GGT6, GGT7, ADAP2, FAM151A, LTB4R1, SLC13A3, RGS9, PLEKHA2, NRP2, GYPC, PILRB2, NRP1, ACVRL1, CLDN4, LDLR, GYPA, LRRC19, GABBR2,	518	5507	17854	1.18291217	0.7301	0.170649	4.9776
GOTERM_MF FAT	GO:0001883 ~purine nucleoside binding	61	10.3	0.003807	KIFC2, XRCC3, ACVRL1, LDHD, INO80, ATP2B2, ACSS1, MAP3K4, DDX11, OASL1, TARSL2, RTEL1, ATP8B4, MATK, NLRP6, NMNAT2, MYLK3, OLA1, TYK2, PRKD2, PAPD4, ABCB1A, SQLE, PDE5A, PKLR, ERN1, GM6524, BMP2K, MVK, MST1R, PRKD3, GBP1, ABCD1, ABCA2, OAS2, ABCA3, TTBK2, DCLK3, DCLK2, DHX58, CHD3, OBSCN, CHDH, ABCB9, AK1, MET, ABCA8A, ACACA, TREX1, BCS1L, NPR2, MMAB, ABCG8, ACSM1, AOX1, ABCC4, AOX3, GRK4, MYO19, JAK3, PIP4K2A	367	1548	13288	1.42676496	0.9016	0.227143	5.487
SP_PIR_KEYW ORDS	liver	5	0.84	0.003972	AKR1C6, LTBP3, FABP1, CAR5A, ORM2	518	23	17854	7.49286554	0.7527	0.160238	5.3005

INTERPRO	IPR017972:Cytochrome P450, conserved site	9	1.52	0.004133	CYP2G1, CYP2A22, CYP2C55, CYP2D40, CYP2C44, CYP2D11, CYP2A5, CYP4F14, CYP2B13	513	89	17763	3.50147842	0.977	0.290339	6.2607
INTERPRO	IPR003591:Luciferase-rich repeat, typical subtype	11	1.85	0.004185	FMOD, AMIGO3, FLRT1, PODNL1, LRRN4, GPR125, LRG1, LRTM1, IGFALS, PKD1, TLR7	513	129	17763	2.95258171	0.9781	0.272693	6.3381
GOTERM_MF_FAT	GO:0001882 ~nucleoside binding	61	10.3	0.00432	KIFC2, XRCC3, ACVRL1, LDHD, INO80, ATP2B2, ACSS1, MAP3K4, DDX11, OASL1, TARSL2, RTEL1, ATP8B4, MATK, NLRP6, NMNAT2, MYLK3, OLA1, TYK2, PRKD2, PAPD4, ABCB1A, SQLE, PDE5A, PKLR, ERN1, GM6524, BMP2K, MVK, MST1R, PRKD3, GBP1, ABCD1, ABCA2, OAS2, ABCA3, TTBK2, DCLK3, DCLK2, DHX58, CHD3, OBSCN, CHDH, ABCB9, AK1, MET, ABCA8A, ACACA, TREX1, BCS1L, NPR2, MMAB, ABCG8, ACSM1, AOX1, ABCC4, AOX3, GRK4, MYO19, JAK3, PIP4K2A	367	1558	13288	1.41760729	0.9281	0.231444	6.2053
SP_PIR_KEYWORDS	sterol biosynthesis	5	0.84	0.004659	FDPS, MVK, IDI1, SC4MOL, NSDHL	518	24	17854	7.18066281	0.8059	0.166514	6.1902
SMART	SM00369:LR_R_TYP	11	1.85	0.005356	FMOD, AMIGO3, FLRT1, PODNL1, LRRN4, GPR125, LRG1, LRTM1, IGFALS, PKD1, TLR7	275	129	9131	2.83131783	0.6356	0.285749	6.4454
GOTERM_CC_FAT	GO:0000267 ~cell fraction	28	4.72	0.005404	SORD, CYP2D11, BCAR1, PML, GHRHR, ATP2B2, PLCB4, RAC2, FOLR2, ANK3, UGT1A5, SCNN1A, CYP2C55, ANKRA2, MET, IGFALS, CYP4F14, CYB5B, BCL2L11, SLC10A1, LIN7A, CYP2A22, SSTR2, SQLE, CYP2A5, CYFIP2, ABCC4, SLC13A3	336	596	12504	1.74832215	0.7759	0.392556	6.899
INTERPRO	IPR015894:Guanylate-binding protein, N-terminal	4	0.67	0.005488	GBP6, GBP10, GBP2, GBP1	513	13	17763	10.6540711	0.9934	0.319977	8.2325

GOTERM_CC_FAT	GO:0005886 ~plasma membrane	99	16.7	0.005852	GPR117, SLC30A1, GPR129, GABRB3, AQP8, BTC, SYT3, TNFSF13, SYT7, GHRHR, ATP2B2, SLC2A2, S1PR5, VNN1, SPRED3, ACTN1, RND2, SSTR2, LAT2, ABCB1A, RELT, 6530402F18RIK, MST1R, GBP2, GBP1, GLG1, BBS7, BDKRB2, ABCA3, PVRL4, PDE6C, FOLR2, ICOS, PVRL3, FN1, BLNK, CD8B1, AK1, MAOA, MET, TNFRSF13C, CD300E, DENND1A, FCGR1, SHANK2, LIN7A, ABCG8, ADAP2, LTB4R1, CYFIP2, KCTD18, RGS9, PLEKHA2, NRP2, GYPC, NRP1, CLDN4, BCAR1, GYPA, GABBR2, FAM57A, RAET1D, AP1S2, ITIH4, SLC22A1, GPR97, COL23A1, CMKLR1, MPP7, RFTN2, NFAM1, SLC9A3R1, TMEM67, DOK3, EVPL, DOK7, GM6524, KCTD12B, NGFR, GPR183, CD248, CSF1, GPR64, FPR1, UGT1A5, PKD1, SUCNR1, SLC39A5, SELPLG, SCNN1A, CNNM4, DLGAP3, SELL, ABCA8A, NPR2, GPR77, ABCC4, LIME1, GFRA2	336	2906	12504	1.26779569	0.8021	0.332998	7.4508
GOTERM_MF_FAT	GO:0020037 ~heme binding	11	1.85	0.00652	CYP2G1, CYP2A22, CYP2C55, CYP2D40, CYP2C44, CYP2D11, CYP2A5, CYP4F14, CYP2B13, CYB5B, CYB5D1	367	144	13288	2.76581895	0.9813	0.303398	9.2246
PIR_SUPERFAMILY	PIRSF001392 :carbonate dehydratase	4	0.67	0.007405	CAR14, CAR5A, CAR1, CAR3	211	16	8136	9.63981043	0.815	0.430166	9.071
GOTERM_MF_FAT	GO:0030554 ~adenyl nucleotide binding	59	9.95	0.007428	LDHD, INO80, ATP2B2, ACSS1, MAP3K4, DDX11, OASL1, TARSL2, RTEL1, ATP8B4, MATK, NLRP6, NMNAT2, MYLK3, OLA1, TYK2, PRKD2, PAPD4, ABCB1A, SQLE, PKLR, ERN1, GM6524, BMP2K, MVK, MST1R, PRKD3, ABCD1, ABCA2, OAS2, ABCA3, TTBK2, DCLK3, DCLK2, DHX58, CHD3, OBSCN, CHDH, ABCB9, AK1, MET, ABCA8A, ACACA, TREX1, BCS1L, NPR2, MMAB, ABCG8, ACSM1, AOX1, ABCC4, AOX3, GRK4, MYO19, JAK3, PIP4K2A	367	1535	13288	1.39167295	0.9893	0.3146	10.445

SP_PIR_KEYWORD	metal-binding	99	16.7	0.007876	ZC3HAV1, CYP2D11, SYT3, CAR5A, SYT7, ATP2B2, MAP3K4, ZFP882, DDAH1, CYP2C55, CYP2B13, TRIM35, PITPNM3, ZFP280D, PDE5A, PGCP, CYP2C44, ASAP1, ZFP456, ZFP455, PDE6C, GMIP, STAMBPL1, DHX58, FGD4, SGIP1, AGBL3, CYP2D40, ESRRB, ACACA, FDPS, TET1, FOXP2, ADAP2, FREM1, MTR, MZF1, IDI1, KLF1, ARSB, PILRB2, ACVRL1, AGTPBP1, MMP28, GLI3, ZKSCAN4, STAC2, GM14391, ZFP354A, MICAL1, ZC3HAV1L, ZFP354B, RTEL1, APCS, CAR14, CYB5B, GMPR, PRKD2, ZFP867, PKLR, ERN1, CYP2A5, LEPREL1, PRKD3, ZFP710, ZFP418, SORD, USP3, ZFP715, ZFP69, ZFP398, TRIM14, PML, DPF1, ZDHHC24, NR1D1, TCEA3, ADH1, ADAMTS10, KDM3A, XAF1, CAR1, CHD3, CAR3, CYP2G1, PM20D1, 4931406C07RIK, CYP4F14, CYP2A22, ABP1, ACSM1, ZFP182, AOX1, ZFP7, SULF1, LIME1, AOX3, CYB5D1, ARAP2	518	2682	17854	1.27227851	0.9377	0.242352	10.254
GOTERM_CC_FAT	GO:0019898 ~extrinsic to membrane	23	3.88	0.00829	GNA14, CYP2C55, DLGAP3, ANKRA2, CYP2D11, DENND1A, CYP4F14, MPP7, SLC9A3R1, BCL2L11, LIN7A, CYP2A22, PITPNM3, DAPP1, MFAP1B, DOK7, CYP2A5, SPRED3, EPB4.1L4B, RGS9, JAK3, PHLDB2, PLEKHA2	336	472	12504	1.81340799	0.8995	0.368401	10.401
INTERPRO	IPR012675:Beta-grasp fold, ferredoxin-type	4	0.67	0.008365	AOX1, OLA1, AOX3, TARSL2	513	15	17763	9.23352827	0.9995	0.42109	12.291
SP_PIR_KEYWORD	heme	11	1.85	0.008394	CYP2G1, CYP2A22, CYP2C55, CYP2D40, CYP2C44, CYP2D11, CYP2A5, CYP4F14, CYP2B13, CYB5B, CYB5D1	518	142	17854	2.66999293	0.9481	0.235839	10.893
GOTERM_BP_FAT	GO:0016126 ~sterol biosynthetic process	5	0.84	0.009284	FDPS, MVK, IDI1, SC4MOL, NSDHL	381	30	13588	5.944007	1	0.814306	14.654
GOTERM_BP_FAT	GO:0007167 ~enzyme linked receptor protein signaling pathway	16	2.7	0.010038	PLAT, ACVRL1, NRP1, NDN, LTBP3, BCAR1, MET, PML, HGF, DOK4, DCP1A, DOK7, MST1R, JAK3, FGF1, GFRA2	381	273	13588	2.09020026	1	0.809002	15.75

INTERPRO	IPR002345:Li pocalin	6	1.01	0.01011	LCN2, ORM1, MEIS3, GPRASP1, ABCA2, ORM2	513	46	17763	4.51639969	0.9999	0.460507	14.669
GOTERM_MF _FAT	GO:0009055 ~electron carrier activity	13	2.19	0.010304	CYP2G1, HAO1, CYP2A22, CYP2C55, CYP2D40, CYP2C44, CYP2D11, MAOA, AOX1, CYP2A5, CYP4F14, AOX3, CYP2B13	367	202	13288	2.3301589	0.9982	0.38395	14.209
GOTERM_MF _FAT	GO:0005158 ~insulin receptor binding	4	0.67	0.010576	DOK3, DOK4, SLC2A2, DOK7	367	17	13288	8.51931399	0.9984	0.369827	14.557
UP_SEQ_FEA TURE	domain:PH	14	2.36	0.010819	OBSCN, ASAP1, TECPR1, E130306D19RIK, PRKD2, PLEKHG2, PLEKHA6, DOK3, DAPP1, DOK4, FAM109B, DOK7, PHLDB2, PRKD3	500	202	16021	2.22073267	1	0.999793	16.606
KEGG_PATH WAY	mmu00980: Metabolism of xenobiotics by cytochrome P450	7	1.18	0.011606	CYP2C55, CYP2C44, ADH1, UGT1A5, GSTT1, CYP2B13, GSTM6	167	66	5738	3.64416621	0.7883	0.321691	12.759
GOTERM_CC _FAT	GO:0042995 ~cell projection	26	4.38	0.011628	NRP2, PRPH, NRP1, BBS7, GABRB3, BCAR1, ABI3, GABBR2, GLI3, TTL11, ATP2B2, NPHP4, IFT122, PLCB4, SRPX, ANK3, SLC2A2, PKD1, CYS1, FGD4, MET, DENND1A, SHANK2, SEMA6A, GM6524, GAMT	336	575	12504	1.68273292	0.9604	0.416099	14.299
INTERPRO	IPR018338:C armonic anhydrase, alpha-class, conserved site	4	0.67	0.011979	CAR14, CAR5A, CAR1, CAR3	513	17	17763	8.14723082	1	0.496512	17.151
KEGG_PATH WAY	mmu00100:S teroid biosynthesis	4	0.67	0.011996	SQLE, LSS, SC4MOL, NSDHL	167	17	5738	8.08453681	0.7991	0.274595	13.161
GOTERM_MF _FAT	GO:0004089 ~carbonate dehydratase activity	4	0.67	0.012437	CAR14, CAR5A, CAR1, CAR3	367	18	13288	8.04601877	0.9995	0.397854	16.903
COG_ONTO LOGY	Secondary metabolites biosynthesis, transport, and catabolism	10	1.69	0.012737	CYP2G1, CYP2A22, CYP2C55, CYP2D40, CYP2C44, CYP4F17, CYP2D11, CYP2A5, CYP4F14, CYP2B13	73	109	2040	2.56378032	0.2162	0.216162	9.1598
INTERPRO	IPR018159:S pectrin/alph a-actinin	5	0.84	0.012945	BC024139, SYNE1, EVPL, SPNA1, ACTN1	513	32	17763	5.41027047	1	0.502544	18.407

GOTERM_MF_FAT	GO:0017076 ~purine nucleotide binding	68	11.5	0.013111	KIFC2, GNA14, XRCC3, ACVRL1, LDHD, INO80, ATP2B2, ACS1, MAP3K4, DDX11, OASL1, GBP10, TARSL2, RTEL1, ATP8B4, MATK, NLRP6, NMNAT2, GBP6, MYLK3, OLA1, TYK2, RND2, PRKD2, PAPD4, ABCB1A, SQLE, PDE5A, PKLR, GM6524, ERN1, BMP2K, MVK, MST1R, PRKD3, GBP2, GBP1, ABCD1, ABCA2, OAS2, ABCA3, TTBK2, RAC2, DCLK3, DCLK2, DHX58, CHD3, OBSCN, CHDH, ABCB9, IRGM2, AK1, MET, ABCA8A, ACACA, TREX1, BCS1L, NPR2, MMAB, ABCG8, ACSM1, AOX1, ABCC4, AOX3, GRK4, MYO19, JAK3, PIP4K2A	367	1871	13288	1.31591755	0.9997	0.394397	17.74
SP_PIR_KEYWORDS	Monoxygenase	9	1.52	0.013204	CYP2G1, CYP2A22, CYP2C55, CYP2D40, CYP2C44, CYP2D11, CYP2A5, CYP4F14, CYP2B13	518	108	17854	2.87226512	0.9906	0.322122	16.629
GOTERM_BP_FAT	GO:0006955 ~immune response	23	3.88	0.013205	GPR183, ARCC4, GBP6, CD8B1, PRG4, CXCL9, CD300E, TNFRSF13C, SAMHD1, TNFSF13, OAS2, TLR7, FCGR1, TRAF3IP2, RAET1D, LAT2, OASL1, GBP10, VNN1, LIME1, DHX58, GBP2, GBP1	381	471	13588	1.74155619	1	0.864585	20.212
SP_PIR_KEYWORDS	Cholesterol biosynthesis	4	0.67	0.014248	FDPS, MVK, IDI1, NSDHL	518	18	17854	7.65937366	0.9935	0.321221	17.828
GOTERM_BP_FAT	GO:0055088 ~lipid homeostasis	5	0.84	0.014399	ABCG8, LDLR, ACACA, PCSK9, ABCA2	381	34	13588	5.24471206	1	0.866523	21.838
INTERPRO	IPR001611:L eucine-rich repeat	13	2.19	0.014534	FMOD, NLRC5, AMIGO3, FLRT1, PODNL1, LRRN4, GPR125, LRG1, LRTM1, LRRIC19, IGFALS, PKD1, TLR7	513	202	17763	2.22838863	1	0.523354	20.433
SMART	SM00150:SP EC	5	0.84	0.014726	BC024139, SYNE1, EVPL, SPNA1, ACTN1	275	32	9131	5.18806818	0.9385	0.502064	16.812
GOTERM_CC_FAT	GO:0044421 ~extracellular region part	32	5.4	0.016222	FMOD, PODNL1, LDLR, LTBP3, CSF1, BTC, CXCL9, TNFSF13, MMP28, SERAC1, COL27A1, MFAP1B, PCSK9, VNN1, ADAMTS10, FGF1, OLFM1, FN1, PLAT, LGALS1, EFEMP2, IGFALS, WNT2B, ORM1, ABP1, LAMA4, FREM1, 6530402F18RIK, SULF1, CHRDL1, COL20A1, ORM2	336	774	12504	1.53857512	0.989	0.475258	19.408
INTERPRO	IPR018170:A Ido/keto reductase, conserved site	4	0.67	0.01636	AKR1C6, AKR1C19, AKR1D1, AKR1C20	513	19	17763	7.28962758	1	0.546566	22.704

INTERPRO	IPR001148:C arbo nic anhydrase, alpha-class, catalytic domain	4	0.67	0.01636	CAR14, CAR5A, CAR1, CAR3	513	19	17763	7.28962758	1	0.546566	22.704
INTERPRO	IPR000372:L eucine-rich repeat, cysteine-rich flanking region, N- terminal	8	1.35	0.017902	FMOD, AMIGO3, FLRT1, PODNL1, LRTM1, IGFALS, PKD1, TLR7	513	93	17763	2.9785575	1	0.560816	24.574
UP_SEQ_FEAT URE	glycosylation site:N-linked (GlcNAc...)	128	21.6	0.018267	SLC44A3, AU040320, LTBP3, AQP8, LRTM1, BTC, TNFSF13, CD53, TLR7, KLHDC7A, GHRHR, OLFML3, BC018242, SLC2A2, S1PR5, VNN1, SLC4A3, SLC12A7, SLC22A23, TMEM132A, TMEM132E, SSTR2, CD37, RELT, ABCB1A, 6530402F18RIK, MST1R, PGCP, GLG1, AB124611, ABCA2, BDKRB2, PVRL4, SEMA5B, FOLR2, PVRL3, ICOS, OLFM1, FN1, PLAT, FKTN, CD8B1, EFEMP2, MET, TNFRSF13C, CD300E, HGF, FCGR1, LCN2, ABCG8, SEMA6A, GGT6, LAMA4, GGT7, LTB4R1, FREM1, SLC13A3, CHRDL, COL20A1, NRP2, ARSB, PILRB2, NRP1, PODNL1, ACVRL1, LDLR, LRRC19, SERPINA3F, GABBR2, RAET1D, DNAJC16, SERPINA7, PROZ, SLC22A1, GPR97, PARM1, APCS, CAR14, CMKLR1, PRG4, IGFALS, CHST3, NFAM1, TMEM67, AMIGO3, CTSO, ERN1, NGFR, LEPREL1, FMOD, GPR183, HS3ST6, CSF1, ABCD1, GPR64, FPR1, CXCL9, COL27A1, UGT1A5, ADAMTS10, PCSK9, PKD1, SUCNR1, POPDC2, SLC39A5, SELPLG, SCNN1A, THBS3, CNNM4, TMC8, LRRN4, SELL, ABCA8A, PM20D1, NPR2,	500	3444	16021	1.19087573	1	0.999931	26.492
KEGG_PATH WAY	mmu05340: Primary immunodeficiency	5	0.84	0.019357	CD8B1, ICOS, TNFRSF13C, JAK3, BLNK	167	36	5738	4.77212242	0.9257	0.35162	20.431
GOTERM_CC FAT	GO:0031012 ~extracellular matrix	16	2.7	0.019398	FMOD, PODNL1, LTBP3, EFEMP2, LGALS1, MMP28, WNT2B, LAMA4, SERAC1, FREM1, COL27A1, MFAP1B, 6530402F18RIK, ADAMTS10, FGF1, FN1	336	309	12504	1.92695331	0.9955	0.491258	22.774

GOTERM_CC_FAT	GO:0005792 ~microsome	11	1.85	0.020192	ATP2B2, CYP2A22, CYP2C55, PLCB4, SQLE, CYP2D11, UGT1A5, CYP2A5, CYP4F14, IGFALS, CYB5B	336	176	12504	2.32589286	0.9964	0.465039	23.595
INTERPRO	IPR016167:F AD-binding, type 2, subdomain 1	3	0.51	0.020691	LDHD, AOX1, AOX3	513	8	17763	12.9846491	1	0.596271	27.849
GOTERM_MF_FAT	GO:0008047 ~enzyme activator activity	14	2.36	0.020871	ASAP1, FGF13, CYB5B, ARHGAP30, ADAP2, SGSM1, GMIP, CHML, TBC1D4, RGS9, SH3BP1, ARAP2, ADC, FN1	367	249	13288	2.03573969	1	0.529687	26.808
SP_PIR_KEYWORDS	hydro-lyase	3	0.51	0.020872	CAR5A, CAR1, CAR3	518	8	17854	12.9251931	0.9994	0.410701	25.069
GOTERM_BP_FAT	GO:0007050 ~cell cycle arrest	6	1.01	0.021249	BC024139, AK1, PML, MTBP, ERN1, PKD1	381	57	13588	3.75410968	1	0.93728	30.57
SMART	SM00013:LR RNT	8	1.35	0.02147	FMOD, AMIGO3, FLRT1, PODNL1, LRTM1, IGFALS, PKD1, TLR7	275	93	9131	2.85622678	0.9831	0.557824	23.606
GOTERM_MF_FAT	GO:0016887 ~ATPase activity	15	2.53	0.023773	XRCC3, ABCB9, ABCD1, ABCA8A, INO80, ABCA2, ABCA3, ABCG8, ATP2B2, DDX11, ABCB1A, GM6524, ABCC4, RTEL1, ATP8B4	367	281	13288	1.93276252	1	0.556341	29.952
INTERPRO	IPR001395:A ldo/keto reductase	4	0.67	0.0244	AKR1C6, AKR1C19, AKR1D1, AKR1C20	513	22	17763	6.29558745	1	0.640453	31.999
GOTERM_CC_FAT	GO:0042598 ~vesicular fraction	11	1.85	0.024799	ATP2B2, CYP2A22, CYP2C55, PLCB4, SQLE, CYP2D11, UGT1A5, CYP2A5, CYP4F14, IGFALS, CYB5B	336	182	12504	2.24921507	0.999	0.499961	28.2
GOTERM_BP_FAT	GO:0006695 ~cholesterol biosynthetic process	4	0.67	0.025382	FDPS, MVK, IDI1, NSDHL	381	23	13588	6.20244209	1	0.954668	35.386
GOTERM_MF_FAT	GO:0005524 ~ATP binding	53	8.94	0.025893	INO80, ATP2B2, ACSS1, MAP3K4, DDX11, OASL1, TARSL2, RTEL1, MATK, ATP8B4, NLRP6, NMNAT2, MYLK3, OLA1, TYK2, PRKD2, PAPD4, ABCB1A, PKLR, ERN1, GM6524, BMP2K, MVK, MST1R, PRKD3, ABCD1, ABCA2, OAS2, ABCA3, TTBK2, DCLK3, DCLK2, DHX58, CHD3, OBSCN, ABCB9, AK1, ABCA8A, MET, ACACA, BCS1L, NPR2, MMAB, ABCG8, ACSM1, ABCC4, GRK4, JAK3, MYO19, PIP4K2A	367	1443	13288	1.32985134	1	0.568066	32.169
GOTERM_CC_FAT	GO:0030863 ~cortical cytoskeleton	5	0.84	0.027497	GYPC, SPNA1, ACTN1, SCNN1A, EPB4.9	336	43	12504	4.32724252	0.9995	0.503212	30.778

KEGG_PATHWAY	mmu00910: Nitrogen metabolism	4	0.67	0.027535	CAR14, CAR5A, CAR1, CAR3	167	23	5738	5.97552721	0.9756	0.411696	27.854
GOTERM_MF_FAT	GO:0016836 ~hydro-lyase activity	5	0.84	0.027836	CAR14, FASN, CAR5A, CAR1, CAR3	367	42	13288	4.3103672	1	0.576086	34.144
GOTERM_BP_FAT	GO:0006749 ~glutathione metabolic process	4	0.67	0.028422	GGT6, GGT7, GSTT1, GSTT3	381	24	13588	5.944007	1	0.961333	38.725
GOTERM_CC_FAT	GO:0005578 ~proteinaceous extracellular matrix	15	2.53	0.029411	FMOD, PODNL1, LTBP3, EFEMP2, LGALS1, MMP28, WNT2B, LAMA4, FREM1, COL27A1, MFAP1B, 6530402F18RIK, ADAMTS10, FGF1, FN1	336	297	12504	1.87950938	0.9997	0.49671	32.553
GOTERM_MF_FAT	GO:0030246 ~carbohydrate binding	16	2.7	0.030003	GLG1, APCS, PRG4, LGALS4, SELL, LGALS1, CD248, CD209F, ABP1, FREM1, ITIH4, PKD1, FGF1, CHRDL, SELPLG, FN1	367	317	13288	1.82748691	1	0.586026	36.283
SP_PIR_KEYWORDS	SH2 domain	8	1.35	0.030047	TYK2, DAPP1, SH2D5, JAK3, STAT1, BLNK, MATK, STAT2	518	103	17854	2.67706264	1	0.510265	34.126
SP_PIR_KEYWORDS	Flavoprotein	8	1.35	0.030047	HAO1, CHDH, SQLE, PYROXD1, MAOA, LDHD, AOX1, MICAL1	518	103	17854	2.67706264	1	0.510265	34.126
BIOCARTA	m_ifnaPathway:IFN alpha signaling pathway	3	0.51	0.030667	TYK2, STAT1, STAT2	43	8	1171	10.2122093	0.9033	0.903289	27.884
GOTERM_BP_FAT	GO:0046578 ~regulation of Ras protein signal transduction	11	1.85	0.031056	OBSCN, PLEKHG2, SGSM1, ADAP2, CSF1, SCAI, TBC1D4, ASAP1, E130306D19RIK, ARAP2, FGD4	381	181	13588	2.16742797	1	0.964906	41.487
GOTERM_MF_FAT	GO:0032559 ~adenyl ribonucleotide binding	53	8.94	0.031358	INO80, ATP2B2, ACS1, MAP3K4, DDX11, OASL1, TARSL2, RTEL1, MATK, ATP8B4, NLRP6, NMNAT2, MYLK3, OLA1, TYK2, PRKD2, PAPD4, ABCB1A, PKLR, ERN1, GM6524, BMP2K, MVK, MST1R, PRKD3, ABCD1, ABCA2, OAS2, ABCA3, TTBK2, DCLK3, DCLK2, DHX58, CHD3, OBSCN, ABCB9, AK1, ABCA8A, MET, ACACA, BCS1L, NPR2, MMAB, ABCG8, ACSM1, ABCC4, GRK4, JAK3, MYO19, PIP4K2A	367	1460	13288	1.31436676	1	0.585427	37.588
UP_SEQ_FEATURE	domain:SH3	11	1.85	0.0316	OBSCN, STAC2, BCAR1, ABI3, SPNA1, ASAP1, PPP1R13B, MPP7, SHANK2, 1700029G01RIK, MATK	500	163	16021	2.16234356	1	0.999996	41.494
INTERPRO	IPRO16166:FAD-binding, type 2	3	0.51	0.032012	LDHD, AOX1, AOX3	513	10	17763	10.3877193	1	0.72437	39.827

GOTERM_BP_FAT	GO:0051186 ~cofactor metabolic process	11	1.85	0.03208	NMNAT2, ACS1, GGT6, GGT7, ACNAT1, MTR, GSTT1, SPNA1, GSTT3, MMAB, ACOT3	381	182	13588	2.15551902	1	0.961982	42.529
SP_PIR_KEYWORDS	carbon-oxygen lyase	3	0.51	0.032286	CAR5A, CAR1, CAR3	518	10	17854	10.3401544	1	0.513229	36.176
SP_PIR_KEYWORDS	Pyrrolidone carboxylic acid	5	0.84	0.032686	FMOD, RNASE4, HGF, SELPLG, FN1	518	42	17854	4.10323589	1	0.496485	36.536
GOTERM_BP_FAT	GO:0006631 ~fatty acid metabolic process	11	1.85	0.0342	SCD1, AWAT2, FAR2, ACSM1, SCD2, ACNAT1, FASN, ACACA, ELOVL6, SC4MOL, ACOT3	381	184	13588	2.13208947	1	0.963331	44.629
GOTERM_BP_FAT	GO:0055092 ~sterol homeostasis	4	0.67	0.035052	ABCG8, LDLR, PCSK9, ABCA2	381	26	13588	5.48677569	1	0.960053	45.454
GOTERM_BP_FAT	GO:0042632 ~cholesterol homeostasis	4	0.67	0.035052	ABCG8, LDLR, PCSK9, ABCA2	381	26	13588	5.48677569	1	0.960053	45.454
GOTERM_CC_FAT	GO:0009986 ~cell surface	15	2.53	0.035292	COL23A1, CD8B1, ACVRL1, GPR125, SELL, GYPA, TNFRSF13C, TNFSF13, NFAM1, FCGR1, GHRHR, RAET1D, ICOS, SULF1, SCNN1A	336	305	12504	1.83021077	1	0.533648	37.75
GOTERM_BP_FAT	GO:0000904 ~cell morphogenesis involved in differentiation	12	2.02	0.036291	SEMA6A, ATP2B2, NRP1, NDN, ESRRB, ANK3, 6530402F18RIK, LEF1, NGFR, GLI3, NFATC1, NUMBL	381	212	13588	2.01871936	1	0.958302	46.631
UP_SEQ_FEATURE	short sequence motif:Histidine box-2	3	0.51	0.036919	SCD1, SCD2, SC4MOL	500	10	16021	9.6126	1	0.999992	46.634
UP_SEQ_FEATURE	short sequence motif:Histidine box-1	3	0.51	0.036919	SCD1, SCD2, SC4MOL	500	10	16021	9.6126	1	0.999992	46.634
UP_SEQ_FEATURE	short sequence motif:Histidine box-3	3	0.51	0.036919	SCD1, SCD2, SC4MOL	500	10	16021	9.6126	1	0.999992	46.634
INTERPRO	IPR000980:S H2 motif	8	1.35	0.041592	TYK2, DAPP1, SH2D5, JAK3, STAT1, BLNK, MATK, STAT2	513	111	17763	2.49554818	1	0.800618	48.481
INTERPRO	IPR017940:ABC transporter integral membrane type 1	4	0.67	0.041716	ABCB9, ABCB1A, ABCD1, ABCC4	513	27	17763	5.12973793	1	0.788337	48.585
KEGG_PATHWAY	mmu01040: Biosynthesis of unsaturated fatty acids	4	0.67	0.041831	SCD1, SCD2, ELOVL6, ACOT3	167	27	5738	5.09026392	0.9966	0.508558	39.326
SP_PIR_KEYWORDS	immune response	11	1.85	0.042011	GPR183, LAT2, CD8B1, CD300E, TNFRSF13C, SAMHD1, LIME1, TNFSF13, TLR7, FCGR1, DHX58	518	184	17854	2.06053802	1	0.566959	44.414

GOTERM_BP_FAT	GO:0051188 ~cofactor biosynthetic process	7	1.18	0.042104	NMNAT2, ACS1, GGT6, GGT7, MTR, SPNA1, MMAB	381	91	13588	2.74338785	1	0.970674	51.844
SP_PIR_KEYWORDS	electron transfer	4	0.67	0.042199	CYP2A22, CYP2D11, CYP2A5, CYP2B13	518	27	17854	5.10624911	1	0.549094	44.563
SP_PIR_KEYWORDS	atp-binding	49	8.26	0.042485	ABCD1, INO80, ABCA2, ABCA3, ATP2B2, ACS1, MAP3K4, TTBK2, DDX11, DCLK3, DCLK2, TARSL2, DHX58, RTEL1, MATK, ATP8B4, OBSCN, NLRP6, NMNAT2, ABCB9, MYLK3, AK1, MET, ABCA8A, ACACA, OLA1, BCS1L, MMAB, TYK2, ABCG8, PRKD2, ACSM1, PAPD4, ABCB1A, PKLR, BMP2K, ERN1, GM6524, ABCC4, GRK4, MVK, MST1R, MYO19, JAK3, PIP4K2A, PRKD3	518	1287	17854	1.31227031	1	0.533228	44.789
SP_PIR_KEYWORDS	Fatty acid biosynthesis	5	0.84	0.043587	SCD1, SCD2, FASN, ACACA, ELOVL6	518	46	17854	3.74643277	1	0.525211	45.653
GOTERM_BP_FAT	GO:0007169 ~transmembrane receptor protein tyrosine kinase signaling pathway	11	1.85	0.043666	PLAT, NRP1, DOK4, NDN, BCAR1, MET, DOK7, HGF, MST1R, FGF1, GFRA2	381	192	13588	2.04325241	1	0.96992	53.16
GOTERM_BP_FAT	GO:0006575 ~cellular amino acid derivative metabolic process	9	1.52	0.044477	CHDH, ATP2B2, GGT6, GGT7, MAOA, GSST1, GAMT, GSST3, ADC	381	141	13588	2.27642821	1	0.967344	53.831
GOTERM_MF_FAT	GO:0016229 ~steroid dehydrogenase activity	4	0.67	0.044634	HSD3B2, AKR1C6, AKR1D1, NSDHL	367	29	13288	4.99408062	1	0.700913	49.114
GOTERM_BP_FAT	GO:0042398 ~cellular amino acid derivative biosynthetic process	5	0.84	0.044656	CHDH, GGT6, GGT7, GAMT, ADC	381	48	13588	3.71500437	1	0.963057	53.978

UP_SEQ_FEATURE	transmembrane region	146	24.6	0.045244	SLC44A3, AU040320, AQP8, LRTM1, BTC, SYT3, INTS1, TNFSF13, SYT7, CD53, GPAT2, TLR7, KLHDC7A, GHRHR, SLC35A4, ATP2B2, BC018242, SLC25A23, SLC2A2, S1PR5, ELOVL6, TMEM185B, SLC4A3, TMEM14A, SLC12A7, GOLT1B, TMIE, SLC22A23, TMEM132A, TMEM132E, LAT2, SSTR2, CD37, RELT, ABCB1A, TMEM184A, MST1R, GLG1, AB124611, TMEM199, SFXN4, ABCA2, BDKRB2, ABCA3, SEMA5B, PVRL4, TTBK2, PVRL3, ICOS, SLC35F2, 6030446N20RIK, SREBF1, SCD1, REEP6, ABCB9, FKTN, PRAF2, SCD2, CD8B1, MAOA, MET, CD300E, TNFRSF13C, PPAPDC1B, REEP1, FCGR1, AWAT2, ABCG8, SEMA6A, GGT6, GGT7, LTB4R1, FAM151A, SLC13A3, NRP2, GYPC, PILRB2, NRP1, ACVRL1, CLDN4, LDLR, GYPA, LRRC19, GABBR2, FAM57A, SC4MOL, FAR2, DNAJC16, FITM1, SERAC1, SLC22A1, GPR97, PARM1, COL23A1, CAR14, CMKLR1, SCAI, CHST3, NFAM1, CYB5B, TMEM67, AMIGO3, SLC35E4, TLCD2, SQLE, ERN1, NGFR, CUX1, HSD3B2, GPR183, HS3ST6, CSF1,	500	4113	16021	1.13740141	1	0.999994	53.834
SP_PIR_KEYWORDS	sialic acid	3	0.51	0.045586	GLG1, GYPA, SELPLG	518	12	17854	8.61679537	1	0.524983	47.186
INTERPRO	IPR003593:ATPase, AAA+ type, core	9	1.52	0.046569	ABCB9, ABCB1A, ABCD1, ABCA8A, GM6524, ABCC4, ABCA2, BCS1L, ABCA3	513	138	17763	2.25819985	1	0.811923	52.503
GOTERM_MF_FAT	GO:0032555 ~purine ribonucleotide binding	62	10.5	0.046574	ACVRL1, INO80, ATP2B2, ACSS1, MAP3K4, DDX11, OASL1, GBP10, TARSL2, RTEL1, MATK, ATP8B4, NLRP6, NMNAT2, GBP6, MYLK3, OLA1, RND2, TYK2, PRKD2, PAPD4, ABCB1A, PDE5A, PKLR, ERN1, GM6524, BMP2K, MVK, MST1R, PRKD3, GBP2, GBP1, ABCD1, ABCA2, OAS2, ABCA3, TTBK2, RAC2, DCLK3, DCLK2, DHX58, CHD3, OBSCN, ABCB9, IRGM2, AK1, MET, ABCA8A, ACACA, BCS1L, NPR2, MMAB, ABCG8, ACSM1, ABCC4, GRK4, MYO19, JAK3, PIP4K2A	367	1796	13288	1.24991049	1	0.701275	50.622

GOTERM_MF_FAT	GO:0032553 ~ribonucleotide binding	62	10.5	0.046574	ACVRL1, INO80, ATP2B2, ACSS1, MAP3K4, DDX11, OASL1, GBP10, TARSL2, RTEL1, MATK, ATP8B4, NLRP6, NMNAT2, GBP6, MYLK3, OLA1, RND2, TYK2, PRKD2, PAPD4, ABCB1A, PDE5A, PKLR, ERN1, GM6524, BMP2K, MVK, MST1R, PRKD3, GBP2, GBP1, ABCD1, ABCA2, OAS2, ABCA3, TTBK2, RAC2, DCLK3, DCLK2, DHX58, CHD3, OBSCN, ABCB9, IRGM2, AK1, MET, ABCA8A, ACACA, BCS1L, NPR2, MMAB, ABCG8, ACSM1, ABCC4, GRK4, MYO19, JAK3, PIP4K2A	367	1796	13288	1.24991049	1	0.701275	50.622
GOTERM_BP_FAT	GO:0006732 ~coenzyme metabolic process	9	1.52	0.047636	NMNAT2, ACSS1, GGT6, GGT7, ACNAT1, MTR, GSTT1, GSTT3, ACOT3	381	143	13588	2.24459006	1	0.966238	56.357
GOTERM_BP_FAT	GO:0006790 ~sulfur metabolic process	7	1.18	0.04804	GGT6, GGT7, MTR, SULF1, CYTL1, GSTT1, GSTT3	381	94	13588	2.65583291	1	0.962794	56.67
SMART	SM00252:SH2	8	1.35	0.0492	TYK2, DAPP1, SH2D5, JAK3, STAT1, BLNK, MATK, STAT2	275	111	9131	2.39305487	0.9999	0.794194	46.525
GOTERM_MF_FAT	GO:0008270 ~zinc ion binding	71	12	0.049754	PILRB2, ZC3HAV1, AGTPBP1, CAR5A, MMP28, GLI3, ZKSCAN4, GM14391, STAC2, SETMAR, ZFP831, ZFP354A, MICAL1, ZC3HAV1L, ZFP882, DDAH1, ZFP354B, CAR14, PRKD2, TRIM35, ZFP867, ZFP280D, PDE5A, PGCP, PRKD3, ZFP710, ZFP418, ZFP395, SORD, USP3, ZFP715, ZFP69, ZFP398, TRIM14, PML, ASAP1, ZFP456, DPF1, ZFP455, ZDHHC24, NR1D1, GMIP, TCEA3, ADH1, STAMBPL1, FASN, ADAMTS10, KDM3A, XAF1, SLC39A5, CAR1, DHX58, CAR3, FGD4, CHD3, SGIP1, AGBL3, ESRRB, PM20D1, 4931406C07RIK, TET1, FOXP2, ADAP2, ZFP182, MTR, ZFP7, MZF1, LIME1, ZFHX2, ARAP2, KLF1	367	2105	13288	1.22123658	1	0.710948	53.004
GOTERM_CC_FAT	GO:0009897 ~external side of plasma membrane	11	1.85	0.050518	RAET1D, COL23A1, CD8B1, GPR125, SELL, ICOS, GYPA, TNFRSF13C, TNFSF13, SCNN1A, FCGR1	336	206	12504	1.9871706	1	0.640116	49.536
PIR_SUPERFAMILY	PIRSFU00617 :tyrosine-protein kinase, HGF/MSP receptor type	2	0.34	0.050959	MET, MST1R	211	2	8136	38.5592417	1	0.948606	48.786

PIR_SUPERFAMILY	PIRSF000617 :TyrPK_HGFR	2	0.34	0.050959	MET, MST1R	211	2	8136	38.5592417	1	0.948606	48.786
UP_SEQ_FEATURE	domain:IRS-type PTB	3	0.51	0.05198	DOK3, DOK4, DOK7	500	12	16021	8.0105	1	0.999993	58.981
INTERPRO	IPR002404:Insulin receptor substrate-1, PTB	3	0.51	0.052429	DOK3, DOK4, DOK7	513	13	17763	7.99055331	1	0.837496	56.862
GOTERM_MF_FAT	GO:0000166 ~nucleotide binding	73	12.3	0.054313	KIFC2, GNA14, XRCC3, ACVRL1, LDHD, INO80, ATP2B2, ACSS1, MAP3K4, DDX11, OASL1, GBP10, TARSL2, RTEL1, RDM1, ATP8B4, MATK, NLRP6, NMNAT2, GBP6, MYLK3, OLA1, TYK2, RND2, HAO1, PRKD2, ABCB1A, PAPD4, SQLE, PDE5A, PKLR, GM6524, ERN1, BMP2K, CPSF7, MVK, MST1R, PRKD3, GBP2, GBP1, ABCD1, ABCA2, OAS2, ABCA3, TTBK2, RAC2, DCLK3, DCLK2, DHX58, CHD3, OBSCN, CHDH, ABCB9, IRGM2, CSTF2, AK1, MET, ABCA8A, ACACA, TREX1, BCS1L, NPR2, MMAB, ABCG8, ACSM1, DHFR, AOX1, ABCC4, AOX3, GRK4, MYO19, JAK3, PIP4K2A	367	2183	13288	1.21077287	1	0.729063	56.231
SP_PIR_KEYWORDS	Lectin	10	1.69	0.054316	GLG1, APCS, LGALS4, SELL, CD248, LGALS1, FREM1, CD209F, PKD1, SELPLG	518	167	17854	2.06390308	1	0.573554	53.426
INTERPRO	IPR002165:Plaxin	4	0.67	0.054384	SEMA5B, SEMA6A, MET, MST1R	513	30	17763	4.61676413	1	0.837872	58.231
GOTERM_BP_FAT	GO:0042482 ~positive regulation of odontogenesis	2	0.34	0.055152	CSF1, NGFR	381	2	13588	35.664042	1	0.974193	61.852
GOTERM_BP_FAT	GO:0042488 ~positive regulation of odontogenesis of dentine-containing tooth	2	0.34	0.055152	CSF1, NGFR	381	2	13588	35.664042	1	0.974193	61.852
UP_SEQ_FEATURE	domain:Semaphorin	4	0.67	0.05532	SEMA5B, SEMA6A, MET, MST1R	500	28	16021	4.57742857	1	0.999985	61.328
UP_SEQ_FEATURE	domain:ABC transporter 2	4	0.67	0.05532	ABCB1A, ABCA8A, ABCA2, ABCA3	500	28	16021	4.57742857	1	0.999985	61.328
UP_SEQ_FEATURE	domain:ABC transporter 1	4	0.67	0.05532	ABCB1A, ABCA8A, ABCA2, ABCA3	500	28	16021	4.57742857	1	0.999985	61.328
SMART	SM00382:AA1A	9	1.52	0.055708	ABCB9, ABCB1A, ABCD1, ABCA8A, GM6524, ABCC4, ABCA2, BCS1L, ABCA3	275	138	9131	2.16545455	1	0.785503	50.893

SMART	SM00310:PTBI	3	0.51	0.056283	DOK3, DOK4, DOK7	275	13	9131	7.66237762	1	0.743677	51.262
INTERPRO	IPR016244:Tyrosine-protein kinase, HGF/MSP receptor	2	0.34	0.056819	MET, MST1R	513	2	17763	34.625731	1	0.840802	59.878
GOTERM_BP_FAT	GO:0050853 ~B cell receptor signaling pathway	3	0.51	0.056869	LAT2, BCAR1, NFAM1	381	14	13588	7.64229471	1	0.973859	63.013
GOTERM_BP_FAT	GO:0015893 ~drug transport	3	0.51	0.056869	ABP1, ABCB1A, ABCC4	381	14	13588	7.64229471	1	0.973859	63.013
SP_PIR_KEYWORDS	leucine-rich repeat	14	2.36	0.057728	FMOD, NLRP6, FLRT1, PODNL1, LRRN4, FBXL21, GPR125, LRTM1, LRRC19, IGFALS, TLR7, AMIGO3, LRG1, PKD1	518	275	17854	1.75469287	1	0.580887	55.673
SP_PIR_KEYWORDS	neurogenesis	9	1.52	0.058347	NRP2, SEMA5B, SEMA6A, NRP1, 6530402F18RIK, PAX5, ATOH8, NGFR, DPF1	518	144	17854	2.15419884	1	0.570041	56.07
INTERPRO	IPR000863:Sulfotransferase	4	0.67	0.05897	HS3ST6, SULT5A1, CHST3, 2810007J2ARIK	513	31	17763	4.46783626	1	0.842084	61.283
INTERPRO	IPR001627:Semaphorin/C D100 antigen	4	0.67	0.05897	SEMA5B, SEMA6A, MET, MST1R	513	31	17763	4.46783626	1	0.842084	61.283
SP_PIR_KEYWORDS	peroxisome	7	1.18	0.060062	HAO1, FAR2, ABCD1, ACNAT1, MVK, IDI1, ACOT3	518	96	17854	2.51323198	1	0.566647	57.152
KEGG_PATHWAY	mmu00900: Terpenoid backbone biosynthesis	3	0.51	0.060283	FDPS, MVK, IDI1	167	14	5738	7.36270317	0.9997	0.601013	51.665
GOTERM_CC_FAT	GO:0005777 ~peroxisome	7	1.18	0.060539	HAO1, FAR2, ABCD1, ACNAT1, MVK, IDI1, ACOT3	336	104	12504	2.50480769	1	0.683068	56.128
GOTERM_CC_FAT	GO:0042579 ~microbody	7	1.18	0.060539	HAO1, FAR2, ABCD1, ACNAT1, MVK, IDI1, ACOT3	336	104	12504	2.50480769	1	0.683068	56.128
UP_SEQ_FEATURE	domain:PKD4	2	0.34	0.061325	AU040320, PKD1	500	2	16021	32.042	1	0.999983	65.233
UP_SEQ_FEATURE	domain:PKD3	2	0.34	0.061325	AU040320, PKD1	500	2	16021	32.042	1	0.999983	65.233
GOTERM_BP_FAT	GO:0042592 ~homeostatic process	24	4.05	0.061639	SLC12A7, SCD2, SLC9A6, LDLR, NDN, CSF1, MLXIPL, TNFRSF13C, ACACA, ABCA2, ILDR2, SLC9A3R1, GHRHR, BCL2L11, ABCG8, ATP2B2, GCKR, DNAJC16, PCSK9, RGN, SLC39A5, 2700094K13RIK, KLF1, RTE11	381	584	13588	1.46564556	1	0.978243	66.065

UP_SEQ_FEATURE	topological domain:Extracellular	81	13.7	0.061913	NRP2, GYPC, SLC36A1, PILRB2, ACVRL1, NRP1, GABRB3, AU040320, GPR125, LDLR, CLDN4, AQP8, LRTM1, BTC, GYPA, LRRC19, TNFSF13, CD53, GABBR2, TLR7, GHRHR, ATP2B2, DNAJC16, FITM1, SLC2A2, S1PR5, SLC22A1, GPR97, PARM1, COL23A1, CAR14, CMKLR1, GOLT1B, TMIE, TMEM132A, NFAM1, TMEM132E, CD37, SSTR2, LAT2, AMIGO3, RELT, ABCB1A, NGFR, MST1R, GLG1, GPR183, AB124611, CD248, CSF1, GPR64, FPR1, BDKRB2, TPCN2, SEMA5B, PVRL4, ICOS, PVRL3, SHISA5, SUCNR1, SLC39A5, SELPLG, SCNN1A, PRAF2, CD8B1, MPZ, LRRN4, SELL, MET, TNFRSF13C, CD300E, NPR2, GPR77, FCGR1, ABCG8, SEMA6A, GGT6, GGT7, LTBR4R1, PLSCR2, LIME1	500	2174	16021	1.19383717	1	0.999953	65.595
SP_PIR_KEYWORDS	transferase	51	8.6	0.062274	GPAT2, GSTM6, ZDHHC24, MAP3K4, HNMT, TTBK2, UGT1A5, TRDMT1, SETMAR, OASL1, DCLK3, FASN, DCLK2, LIPT1, MATK, OBSCN, NMNAT2, FKTN, MYLK3, AK1, MET, ACNAT1, FDPS, GSTT1, CHST3, GSTT3, MMAB, INMT, TYK2, AWAT2, PRKD2, GGT6, RPAP1, GGT7, PAPD4, MTR, PKLR, ERN1, BMP2K, 5033411D12RIK, GRK4, GAMT, MVK, 2810007J24RIK, MST1R, JAK3, PIP4K2A, PRKD3	518	1385	17854	1.26918863	1	0.5665	58.511
GOTERM_MF_FAT	GO:0005529 ~sugar binding	10	1.69	0.063106	GLG1, APCS, LGALS4, SELL, CD248, LGALS1, FREM1, CD209F, PKD1, SELPLG	367	181	13288	2.00039141	1	0.769583	61.882
INTERPRO	IPR000203:GPS	4	0.67	0.063731	GPR97, GPR125, GPR64, PKD1	513	32	17763	4.32821637	1	0.855607	64.231
GOTERM_MF_FAT	GO:0032403 ~protein complex binding	6	1.01	0.063789	DOK3, DOK4, SLC2A2, DOK7, TREX1, FCGR1	367	78	13288	2.78516034	1	0.760998	62.291
SP_PIR_KEYWORDS	lyase	8	1.35	0.064324	CAR14, FASN, NPL, NPR2, CAR5A, OGG1, CAR1, CAR3	518	122	17854	2.26014305	1	0.565454	59.736
SMART	SM00630:Semama	4	0.67	0.064802	SEMA5B, SEMA6A, MET, MST1R	275	31	9131	4.28434018	1	0.753278	56.448
GOTERM_MF_FAT	GO:0070330 ~aromatase activity	4	0.67	0.066182	CYP2A22, CYP2C55, CYP2D11, CYP2A5	367	34	13288	4.259657	1	0.762022	63.692
GOTERM_MF_FAT	GO:0017124 ~SH3 domain binding	6	1.01	0.066639	PLSCR2, BCAR1, DENND1A, MICAL1, SH3BP1, SHANK2	367	79	13288	2.74990515	1	0.752822	63.954

GOTERM_CC_FAT	GO:0030424 ~axon	7	1.18	0.06758	NRP2, PRPH, SEMA6A, NRP1, GABRB3, ANK3, GM6524	336	107	12504	2.43457944	1	0.700913	60.273
KEGG_PATHWAY	mmu04520: Adherens junction	6	1.01	0.068194	PVRL4, RAC2, PVRL3, MET, ACTN1, LEF1	167	76	5738	2.71257485	0.9999	0.609131	56.214
SP_PIR_KEYWORDS	cell membrane	61	10.3	0.068929	GYPC, SLC36A1, GPR125, CLDN4, GABRB3, BTC, TNFSF13, GABBR2, FAM57A, GHRHR, ATP2B2, RAET1D, S1PR5, VNN1, SLC22A1, GPR97, PARM1, COL23A1, CMKLR1, NFAM1, RFTN2, TMEM67, SSTR2, LAT2, DOK3, RELT, ABCB1A, 6530402F18RIK, DOK7, GBP2, GBP1, GLG1, GPR183, BBS7, CSF1, GPR64, FPR1, BDKRB2, PVRL4, PDE6C, FOLR2, PVRL3, SUCNR1, SLC39A5, SELPLG, SCNN1A, BLNK, CNNM4, DLGAP3, ABCA8A, CD300E, DENND1A, GPR77, FCGR1, SHANK2, LIN7A, ADAP2, LTB4R1, LIME1, PLEKHA2,	518	1713	17854	1.22737774	1	0.578709	62.364
SMART	SM00303:GP S	4	0.67	0.069982	GPR97, GPR125, GPR64, PKD1	275	32	9131	4.15045455	1	0.744356	59.349
SP_PIR_KEYWORDS	microsome	7	1.18	0.070316	CYP2A22, CYP2C55, SQLE, CYP2D11, UGT1A5, CYP2A5, CYP4F14	518	100	17854	2.4127027	1	0.573889	63.124
GOTERM_CC_FAT	GO:0005929 ~cilium	8	1.35	0.070894	ATP2B2, NPHP4, SRPX, BBS7, PKD1, CYS1, GLI3, TTLL11	336	135	12504	2.20529101	1	0.696938	62.096
UP_SEQ_FEATURE	nucleotide phosphate- binding region:ATP 1	4	0.67	0.070953	ABCB1A, ABCA8A, ABCA2, ABCA3	500	31	16021	4.13445161	1	0.999971	70.731
UP_SEQ_FEATURE	nucleotide phosphate- binding region:ATP 2	4	0.67	0.070953	ABCB1A, ABCA8A, ABCA2, ABCA3	500	31	16021	4.13445161	1	0.999971	70.731
UP_SEQ_FEATURE	domain:GPS	4	0.67	0.070953	GPR97, GPR125, GPR64, PKD1	500	31	16021	4.13445161	1	0.999971	70.731
INTERPRO	IPR013320:C oncanavalin A-like lectin/glucan ase, subgroup	6	1.01	0.071321	LAMA4, APCS, LGALS4, LGALS1, COL20A1, THBS3	513	77	17763	2.69810891	1	0.878332	68.499
GOTERM_BP_FAT	GO:0046068 ~cGMP metabolic process	3	0.51	0.072317	ATP2B2, PDE5A, NPR2	381	16	13588	6.68700787	1	0.987358	72.061
PIR_SUPERFAMILY	PIRSF800007 :secretin receptor-like G protein- coupled receptors	4	0.67	0.073944	GPR97, GPR125, GPR64, GHRHR	211	38	8136	4.05886755	1	0.969428	62.574

SP_PIR_KEYWORD	sh3 domain	11	1.85	0.074203	OBSCN, STAC2, BCAR1, ABI3, SPNA1, ASAP1, PPP1R13B, MPP7, SHANK2, 1700029G01RIK, MATK	518	204	17854	1.85852449	1	0.582291	65.178
PIR_SUPERFAMILY	PIRSF000636:TyrPK Jak	2	0.34	0.075461	TYK2, JAK3	211	3	8136	25.7061611	1	0.948615	63.351
PIR_SUPERFAMILY	PIRSF005680:interferon-induced 56K protein	2	0.34	0.075461	IFIT2, IFIT1	211	3	8136	25.7061611	1	0.948615	63.351
PIR_SUPERFAMILY	PIRSF036899:alpha(1)-acid glycoprotein	2	0.34	0.075461	ORM1, ORM2	211	3	8136	25.7061611	1	0.948615	63.351
PIR_SUPERFAMILY	PIRSF000344:acyl-CoA desaturase	2	0.34	0.075461	SCD1, SCD2	211	3	8136	25.7061611	1	0.948615	63.351
PIR_SUPERFAMILY	PIRSF036899:AGP	2	0.34	0.075461	ORM1, ORM2	211	3	8136	25.7061611	1	0.948615	63.351
PIR_SUPERFAMILY	PIRSF036960:Neuropilin	2	0.34	0.075461	NRP2, NRP1	211	3	8136	25.7061611	1	0.948615	63.351
PIR_SUPERFAMILY	PIRSF000636:tyrosine-protein kinase, Jak/Tyk2 type	2	0.34	0.075461	TYK2, JAK3	211	3	8136	25.7061611	1	0.948615	63.351
UP_SEQ_FEATURE	domain:PH 2	4	0.67	0.076559	ADAP2, ARAP2, PLEKHA2, FGD4	500	32	16021	4.00525	1	0.999968	73.544
INTERPRO	IPR006209:EGF	8	1.35	0.077194	PLAT, LDLR, LTBP3, SELL, CD248, 6530402F18RIK, BTC, PROZ	513	128	17763	2.16410819	1	0.891148	71.47
UP_SEQ_FEATURE	domain:Protein kinase 2	3	0.51	0.077813	TYK2, OBSCN, JAK3	500	15	16021	6.4084	1	0.99994	74.137
UP_SEQ_FEATURE	domain:Protein kinase 1	3	0.51	0.077813	TYK2, OBSCN, JAK3	500	15	16021	6.4084	1	0.99994	74.137
GOTERM_BP_FAT	GO:0007242 ~intracellular signaling cascade	34	5.73	0.079519	PML, FGF13, GHRHR, PLEKHG2, PLCB4, STAC2, RAC2, GMIP, DCLK2, PKD1, SPRED3, FGD4, NFATC1, OBSCN, GPR155, MET, NPR2, HGF, NFAM1, SLC9A3R1, E130306D19RIK, RCAN2, RND2, TYK2, PRKD2, LAT2, SSTR2, DOK3, ADAP2, DOK4, RGS9, JAK3, ASB4, PRKD3	381	915	13588	1.32522123	1	0.990663	75.526
GOTERM_MF_FAT	GO:0004031 ~aldehyde oxidase activity	2	0.34	0.080382	AOX1, AOX3	367	3	13288	24.1380563	1	0.806697	71.057

GOTERM_MF_FAT	GO:0016623 ~oxidoreductase activity, acting on the aldehyde or oxo group of donors, oxygen as acceptor	2	0.34	0.080382	AOX1, AOX3	367	3	13288	24.1380563	1	0.806697	71.057
GOTERM_BP_FAT	GO:0010166 ~wax metabolic process	2	0.34	0.081579	AWAT2, FAR2	381	3	13588	23.776028	1	0.990483	76.44
GOTERM_BP_FAT	GO:0051450 ~myoblast proliferation	2	0.34	0.081579	MET, HGF	381	3	13588	23.776028	1	0.990483	76.44
GOTERM_BP_FAT	GO:0048012 ~hepatocyte growth factor receptor signaling pathway	2	0.34	0.081579	MET, HGF	381	3	13588	23.776028	1	0.990483	76.44
GOTERM_BP_FAT	GO:0010025 ~wax biosynthetic process	2	0.34	0.081579	AWAT2, FAR2	381	3	13588	23.776028	1	0.990483	76.44
UP_SEQ_FEATURE	domain:PH 1	4	0.67	0.082353	ADAP2, ARAP2, PLEKHA2, FGD4	500	33	16021	3.88387879	1	0.999931	76.182
INTERPRO	IPR001500:A Ipha-1-acid glycoprotein	2	0.34	0.084008	ORM1, ORM2	513	3	17763	23.0838207	1	0.904738	74.587
INTERPRO	IPR016251:T tyrosine-protein kinase, Jak/Tyk2	2	0.34	0.084008	TYK2, JAK3	513	3	17763	23.0838207	1	0.904738	74.587
INTERPRO	IPR006554:H elicase-like, DEXD box c2 type	2	0.34	0.084008	DDX11, RTEL1	513	3	17763	23.0838207	1	0.904738	74.587
INTERPRO	IPR014648:N europilin	2	0.34	0.084008	NRP2, NRP1	513	3	17763	23.0838207	1	0.904738	74.587

GOTERM_BP_FAT	GO:0006350 ~transcription	60	10.1	0.084013	ZKSCAN4, GM14391, HOMEZ, ZFP354A, SPIB, ATOH8, ZFP882, ZFP354B, POU2AF1, BARHL1, RBL1, MLXIPL, SCAI, LEF1, HDAC11, TLE2, ZFP867, ZFP280D, ERN1, CAND2, CDCA7L, CUX1, TRAPPC2, ZFP710, ZFP418, ZFP715, NDN, ZFP69, ZFP398, PML, ZFP456, DPF1, ZFP455, TSC22D1, TRP53BP1, TCEA3, NR1D1, POU2F1, KDM3A, PER3, NFATC1, SREBF1, ESRRB, STAT1, FOXP2, STAT2, FOXF1A, RPAP1, SAP130, HNRNPUL1, ZFP182, DBP, ZFP7, MZF1, LIME1, KLF1	381	1772	13588	1.20758607	1	0.990521	77.478
INTERPRO	IPR001565:Synaptotagmin	3	0.51	0.084816	SYT3, DOC2G, SYT7	513	17	17763	6.11042312	1	0.900432	74.935
GOTERM_MF_FAT	GO:0019904 ~protein domain specific binding	10	1.69	0.084834	ATP2B2, LAT2, PLSCR2, BCAR1, DENND1A, MICAL1, SH3BP1, SHANK2, KLF1, SCNN1A	367	192	13288	1.88578565	1	0.814435	73.063
GOTERM_MF_FAT	GO:0005096 ~GTPase activator activity	10	1.69	0.084834	ARHGAP30, SGSM1, ADAP2, CHML, GMIP, TBC1D4, ASAP1, RGS9, SH3BP1, ARAP2	367	192	13288	1.88578565	1	0.814435	73.063
PIR_SUPERFAMILY	PIRSF000503 :glutathione transferase	3	0.51	0.085077	GSTT1, GSTT3, GSTM6	211	19	8136	6.08830132	1	0.944056	67.939
GOTERM_MF_FAT	GO:0031406 ~carboxylic acid binding	6	1.01	0.085193	FOLR2, FASN, ACACA, BC046331, FABP1, LEPREL1	367	85	13288	2.5557942	1	0.806124	73.219
SP_PIR_KEYWORDS	multifunctional enzyme	5	0.84	0.08695	HSD3B2, FASN, ACACA, ERN1, OGG1	518	58	17854	2.97130875	1	0.631297	71.195
UP_SEQ_FEATURE	domain:ABC transporter	3	0.51	0.087153	ABCG8, ABCB9, ABCD1	500	16	16021	6.007875	1	0.999924	78.179
SMART	SM00488:DEXDc2	2	0.34	0.087358	DDX11, RTE11	275	3	9131	22.1357576	1	0.790348	67.83

SP_PIR_KEYWORDS	signal	99	16.7	0.087533	<p> LRTM1, BTC, BPHL, TLR7, GHRHR, OLFML3, SBSN, VNN1, TMIE, TMEM132A, TMEM132E, RELT, 6530402F18RIK, PGCP, MST1R, GLG1, AB124611, LEAP2, PVRL4, SEMA5B, FOLR2, ICOS, PVRL3, OLFM1, FN1, PLAT, ABCB9, CD8B1, EFEMP2, MET, CD300E, HGF, FCGR1, LCN2, SEMA6A, LAMA4, FREM1, CHRDR, NRP2, ARSB, PILRB2, PODNL1, ACVRL1, NRP1, LDLR, LRRRC19, GABBR2, MMP28, 2010001M09RIK, RAET1D, DNAJC16, SRPX, SERPINA7, PROZ, GPR97, PARM1, APCS, CAR14, PRG4, IGFALS, NFAM1, AMIGO3, CTSO, ERN1, NGFR, LEPREL1, FMOD, CD248, CSF1, GPR64, CXCL9, LRG1, UGT1A5, COL27A1, SHISA5, PKD1, PCSK9, ADAMTS10, SLC39A5, LECT2, SELPLG, THBS3, MPZ, LRRN4, SELL, RNASE4, PM20D1, NPR2, 4930572J05RIK, WNT2B, ABP1, ORM1, GLA, SULF1, ORM2, GFRA2 </p>	518	2970	17854	1.14890605	1	0.622553	71.446
UP_SEQ_FEATURE	metal ion-binding site:Iron (heme axial ligand)	7	1.18	0.088697	CYP2A22, CYP2C55, CYP2D11, CYP2A5, CYP4F14, CYB5B, CYB5D1	500	99	16021	2.26559596	1	0.999883	78.787
GOTERM_BP_FAT	GO:0006518 ~peptide metabolic process	4	0.67	0.089301	GGT6, GGT7, GSTT1, GSTT3	381	38	13588	3.75410968	1	0.991966	79.588
UP_SEQ_FEATURE	binding site:Substrate	14	2.36	0.09003	HAO1, ARSB, NMNAT2, DHFR, HNMT, AKR1C6, RNASE4, PKLR, GAMT, GALE, IDI1, AKR1D1, LIPT1, DDAH1	500	275	16021	1.63122909	1	0.999826	79.299
UP_SEQ_FEATURE	domain:PKD1	2	0.34	0.090565	AU040320, PKD1	500	3	16021	21.3613333	1	0.999733	79.501
UP_SEQ_FEATURE	repeat:1; approximate	2	0.34	0.090565	CSTF2, PRG4	500	3	16021	21.3613333	1	0.999733	79.501
UP_SEQ_FEATURE	repeat:12; approximate	2	0.34	0.090565	CSTF2, PRG4	500	3	16021	21.3613333	1	0.999733	79.501
UP_SEQ_FEATURE	domain:PKD2	2	0.34	0.090565	AU040320, PKD1	500	3	16021	21.3613333	1	0.999733	79.501
KEGG_PATHWAY	mmu00590: Arachidonic acid metabolism	6	1.01	0.091578	CYP2C55, GGT6, GGT7, CYP2C44, CYP4F14, CYP2B13	167	83	5738	2.48380348	1	0.686919	67.472
INTERPRO	IPR013149:A lcohol dehydrogenase, zinc-binding	3	0.51	0.093659	SORD, ADH1, FASN	513	18	17763	5.77095517	1	0.916968	78.46

GOTERM_BP_FAT	GO:0000902 ~cell morphogenesis	14	2.36	0.094261	NRP1, NDN, ESRRB, LEF1, HGF, GLI3, NUMBL, SEMA6A, ATP2B2, FOXF1A, ANK3, 6530402F18RIK, NGFR, NFATC1	381	309	13588	1.61584656	1	0.993015	81.396
SP_PIR_KEYWORDS	FAD	7	1.18	0.096834	CHDH, SQLE, PYROXD1, MAOA, LDHD, AOX1, MICAL1	518	109	17854	2.21348872	1	0.650565	75.181
GOTERM_MF_FAT	GO:0003677 ~DNA binding	59	9.95	0.097013	POU6F1, XRCC4, XRCC3, ELF3, PAX5, INO80, GLI3, ZKSCAN4, DDX11, HOMEZ, ZFP354A, SPIB, ATOH8, ZFP354B, RTEL1, RDM1, POU2AF1, SP100, BARHL1, MLXIPL, NUSAP1, LEF1, ZFP280D, CUX1, ZFP710, ZFP395, NDN, A730008H23RIK, PML, TSC22D1, MEIS3, TRP53BP1, TCEA3, NR1D1, HJURP, TRDMT1, POU2F1, ETV5, DHX58, NFATC1, ZBP1, SGIP1, CHD3, SREBF1, PDS5B, ESRRB, TREX1, STAT1, TET1, FOXP2, STAT2, FOXF1A, RPAP1, ZFP182, DBP, MZF1, LIME1, ZFHX2, OGG1, KLF1	367	1781	13288	1.19944862	1	0.838758	77.907
KEGG_PATHWAY	mmu04810: Regulation of actin cytoskeleton	11	1.85	0.09711	RAC2, MYLK3, BCAR1, CYFIP2, ACTN1, MYLPP, FGF13, BDKRB2, PIP4K2A, FGF1, FN1	167	217	5738	1.74171473	1	0.677683	69.714
GOTERM_BP_FAT	GO:0051336 ~regulation of hydrolase activity	10	1.69	0.099539	SGSM1, ADAP2, CHML, PML, ERN1, RGN, TBC1D4, ASAP1, INTS1, ARAP2	381	196	13588	1.81959398	1	0.993994	83.155

Supplementary Table 3.

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Ingenuity Canonical Pathways	-log(p-value)	Ratio	Overlap	Molecules
Superpathway of Cholesterol Biosynthesis	4.28E00	2.14E-01	6/28	FDPS,SQLE,NSDHL,IDI1,MVK,LSS
LXR/RXR Activation	2.5E00	7.44E-02	9/121	ABCG8,SCD,MLXIPL,LDLR,SREBF1,ITIH4,NGFR,FASN,ACACA
LPS/IL-1 Mediated Inhibition of RXR Function	2.49E00	5.94E-02	13/219	ABCG8,ABCB1,SLC10A1,ABCB9,Cyp2a12/Cyp2a22,SREBF1,NGFR,CHST3,FABP1,CYP2A6 (includes others),HS3ST6,ABCC4,MAOA
Cholesterol Biosynthesis I	2.45E00	2.31E-01	3/13	SQLE,NSDHL,LSS
Cholesterol Biosynthesis II (via 24,25-dihydrocholesterol)	2.45E00	2.31E-01	3/13	SQLE,NSDHL,LSS
Cholesterol Biosynthesis III (via Desmosterol)	2.45E00	2.31E-01	3/13	SQLE,NSDHL,LSS
IL-15 Production	2.39E00	1.48E-01	4/27	TYK2,MST1R,STAT1,JAK3
Nicotine Degradation II	2.34E00	9.52E-02	6/63	CYP2C18,CYP2A6 (includes others),AOX1,UGT1A4,INMT,Aox3
Trans, trans-farnesyl Diphosphate Biosynthesis	2.24E00	4E-01	2/5	FDPS,IDI1
Superpathway of Geranylgeranyldiphosphate Biosynthesis	2.1E00	1.76E-01	3/17	FDPS,IDI1,MVK
Hepatic Fibrosis / Hepatic Stellate Cell Activation	1.98E00	5.56E-02	11/198	MET,FN1,CSF1,COL23A1,TNFSF13,NGFR,HGF,COL20A1,STAT1,COL27A1,FGF1
Nicotine Degradation III	1.98E00	9.26E-02	5/54	CYP2C18,CYP2A6 (includes others),AOX1,UGT1A4,Aox3
Maturity Onset Diabetes of Young (MODY2)	1.79E00	1.36E-01	3/22	PKLR,SLC2A2,FABP1
TR/RXR Activation	1.73E00	7.06E-02	6/85	LDLR,SREBF1,FASN,ACACA,RCAN2,THRSP
Actin Cytoskeleton Signaling	1.71E00	5.07E-02	11/217	RAC2,FN1,CYFIP2,MYLPP,MYLK3,PIP4K2A,BCAR1,ACTN1,FGF13,FGF1,MATK
Role of JAK1, JAK2 and TYK2 in Interferon Signaling	1.69E00	1.25E-01	3/24	TYK2,STAT2,STAT1
Activation of IRF by Cytosolic Pattern Recognition Receptors	1.68E00	7.81E-02	5/64	DHX58,ZBP1,STAT2,STAT1,IFIT2
Sorbitol Degradation I	1.61E00	1E00	1/1	SORD
Lipoate Salvage and Modification	1.61E00	1E00	1/1	LIPT1
Methylglyoxal Degradation VI	1.61E00	1E00	1/1	LDHD
Lanosterol Biosynthesis	1.61E00	1E00		LSS
UDP-N-acetyl-D-galactosamine Biosynthesis	1.61E00	1E00		GALE
FXR/RXR Activation	1.42E00	5.51E-02		ABCG8,MLXIPL,SLC10A1,PKLR,SREBF1,ITIH4,FASN
Primary Immunodeficiency Signaling	1.41E00	7.69E-02		BLNK,ICOS,JAK3,TNFRSF13C
Oleate Biosynthesis II (Animals)	1.4E00	1.54E-01		SCD,Scd2
Mevalonate Pathway I	1.4E00	1.54E-01		IDI1,MVK
Bile Acid Biosynthesis, Neutral Pathway	1.4E00	1.54E-01		AKR1D1,AKR1C4
Semaphorin Signaling in Neurons	1.38E00	7.55E-02		RND2,MET,DPYSL4,NRP1
Role of BRCA1 in DNA Damage Response	1.36E00	6.41E-02		POU2F1,DPF1,FANCG,STAT1,RBL1
Epoxysqualene Biosynthesis	1.31E00	5E-01		SQLE
Lipoate Biosynthesis and Incorporation	1.31E00	5E-01		LIPT1
Choline Degradation I	1.31E00	5E-01		CHDH
Palmitate Biosynthesis I (Animals)	1.31E00	5E-01		FASN
Fatty Acid Biosynthesis Initiation II	1.31E00	5E-01		FASN
Glycine Degradation (Creatine Biosynthesis)	1.31E00	5E-01		GAMT
Oncostatin M Signaling	1.29E00	8.82E-02		TYK2,STAT1,JAK3
Interferon Signaling	1.29E00	8.82E-02		TYK2,STAT2,STAT1
Androgen Biosynthesis	1.29E00	1.33E-01		HSD3B1,AKR1C4
Leukotriene Biosynthesis	1.29E00	1.33E-01		GGT6,GGT7
γ-glutamyl Cycle	1.29E00	1.33E-01		GGT6,GGT7
IL-17A Signaling in Fibroblasts	1.26E00	8.57E-02		NFKBID,TRAF3IP2,LCN2
tRNA Splicing	1.26E00	8.57E-02		PDE6C,TDP2,PDE5A
Triacylglycerol Biosynthesis	1.26E00	8.57E-02		PPAPDC1B,GPAT2,ELOVL6
Stearate Biosynthesis I (Animals)	1.26E00	8.57E-02		FASN,ACOT1,ELOVL6
phagosome formation	1.24E00	5.41E-02		RND2,PLCB4,FN1,TLR7,PRKD3,FCGR1A
Estrogen Biosynthesis	1.2E00	8.11E-02		CYP2C18,CYP2A6 (includes others),AKR1C4
Superpathway of Melatonin Degradation	1.17E00	6.45E-02		CYP2C18,CYP2A6 (includes others),UGT1A4,MAOA
Methionine Salvage II (Mammalian)	1.14E00	3.33E-01		MTR
Axonal Guidance Signaling	1.14E00	3.7E-02		RAC2,NRP2,MYLPP,WNT2B,SEMA6A,GNA14,BCAR1,NFATC1,MET,MICAL1,PLCB4,GLI3,NGFR,SHANK2,PRKD3,NRP1
Granulocyte Adhesion and Diapedesis	1.14E00	4.52E-02		SELL,MMP28,CLDN4,NGFR,Cxcl9,GLG1,SELPLG,FPF1
PXR/RXR Activation	1.08E00	5.97E-02		ABCB1,SCD,CYP2A6 (includes others),ABCB9
DNA Methylation and Transcriptional Regulation	1.06E00	1E-01		CHD3,SAP130
Regulation of the Epithelial-Mesenchymal Transition	1.06E00	4.35E-02		MET,HGF,WNT2B,TYK2,LEF1,JAK3,FGF13,FGF1
GDNF Family Ligand-Receptor Interactions	1.06E00	5.88E-02		DOK4,DOK7,GFRA2,DOK3
Macropinocytosis Signaling	1.06E00	5.88E-02		MET,CSF1,HGF,PRKD3
iNOS Signaling	1.02E00	6.82E-02		TYK2,STAT1,JAK3
α-tocopherol Degradation	1.02E00	2.5E-01		CYP4F12

Geranylgeranyldiphosphate Biosynthesis	1.02E00	2.5E-01		FDPS
Biotin-carboxyl Carrier Protein Assembly	1.02E00	2.5E-01		ACACA
Melatonin Degradation II	1.02E00	2.5E-01		MAOA
Tec Kinase Signaling	1.01E00	4.43E-02		RND2, TYK2, STAT2, GNA14, STAT1, JAK3, PRKD3
JAK/Stat Signaling	9.89E-01	5.56E-02		TYK2, STAT2, STAT1, JAK3
Hepatic Cholestasis	9.69E-01	4.32E-02		ABCG8, ABCB1, SLC10A1, SREBF1, NGFR, MAP3K4, PRKD3
TREM1 Signaling	9.41E-01	5.33E-02		NLRC5, NLRP6, TLR7, LAT2
Galactose Degradation I (Leloir Pathway)	9.3E-01	2E-01		GALE
dTMP De Novo Biosynthesis	9.3E-01	2E-01		DHFR
Acetate Conversion to Acetyl-CoA	9.3E-01	2E-01		ACSS1
IL-22 Signaling	9.29E-01	8.33E-02		TYK2, STAT1
Leukocyte Extravasation Signaling	9.26E-01	4.04E-02		RAC2, MMP28, CLDN4, MAP3K4, PRKD3, BCAR1, ACTN1, SELPLG
HGF Signaling	9.26E-01	4.76E-02		MET, ELF3, HGF, MAP3K4, PRKD3
Role of Macrophages, Fibroblasts and Endothelial Cells in IL-6-type 1 Signaling	9.14E-01	3.69E-02		PLCB4, FN1, TRAF3IP2, CSF1, NGFR, WNT2B, TLR7, LEF1, PRKD3, FCGR1A, NFATC1
Role of JAK family kinases in IL-6-type 1 Signaling	9E-01	8E-02		TYK2, STAT1
Bupropion Degradation	9E-01	8E-02		CYP2C18, CYP2A6 (includes others)
Acetone Degradation I (to Methylglyoxal)	8.72E-01	7.69E-02		CYP2C18, CYP2A6 (includes others)
Zymosterol Biosynthesis	8.56E-01	1.67E-01		NSDHL
NAD Biosynthesis III	8.56E-01	1.67E-01		NMNAT2
D-myo-inositol (1,4,5)-Trisphosphate Binding Protein Signaling	8.45E-01	7.41E-02		PLCB4, PIP4K2A
Epithelial Adherens Junction Signaling	8.13E-01	4.11E-02		MET, HGF, PVRL3, LEF1, ACTN1, FGF1
FGF Signaling	7.99E-01	4.71E-02		MET, HGF, FGF13, FGF1
Production of Nitric Oxide and Reactive Oxygen Species	7.99E-01	3.89E-02		RND2, NGFR, TYK2, MAP3K4, STAT1, JAK3, PRKD3
Wnt/Ca+ pathway	7.95E-01	5.36E-02		PLCB4, PDE6C, NFATC1
NAD Biosynthesis from 2-amino-3-carboxy-5-methylimidazo[4,5-f]sulfonamide	7.94E-01	1.43E-01		NMNAT2
NAD Salvage Pathway III	7.94E-01	1.43E-01		NMNAT2
Pregnenolone Biosynthesis	7.94E-01	1.43E-01		MICAL1
Melatonin Degradation I	7.79E-01	5.26E-02		CYP2C18, CYP2A6 (includes others), UGT1A4
Glutathione-mediated Detoxification	7.72E-01	6.67E-02		Gstt3, Gstt1
Altered T Cell and B Cell Signaling in Rheumatoid Arthritis	7.62E-01	4.55E-02		CSF1, TNFSF13, TLR7, TNFRSF13C
CXCR4 Signaling	7.57E-01	3.95E-02		RND2, PLCB4, MYLPP, GNA14, PRKD3, BCAR1
Aldosterone Signaling in Epithelial Cells	7.57E-01	3.95E-02		SCNN1A, PLCB4, DNAJC9, PIP4K2A, PRKD3, DNAJC16
Glucose and Glucose-1-phosphate Degradation	7.41E-01	1.25E-01		RGN
G-Protein Coupled Receptor Signaling	7.34E-01	3.52E-02		GABBR2, GRK4, PLCB4, LTB4R, PDE6C, TDP2, PDE5A, GNA14, FPR1
Regulation of Actin-based Motility by Rho GTPases	7.26E-01	4.4E-02		RND2, RAC2, MYLPP, PIP4K2A
Communication between Innate and Adaptive Immune Cells	7.26E-01	4.4E-02		TNFSF13, TLR7, TNFRSF13C, CD8B
Agranulocyte Adhesion and Diapedesis	7.26E-01	3.7E-02		SELL, FN1, MMP28, CLDN4, Cxcl9, GLG1, SELPLG
Circadian Rhythm Signaling	7.08E-01	6.06E-02		PER3, NR1D1
Retinoate Biosynthesis I	7.08E-01	6.06E-02		ADH1C, AKR1C4
Ethanol Degradation II	7.08E-01	6.06E-02		ADH1C, ACSS1
Calcium Transport I	6.95E-01	1.11E-01		ATP2B2
UDP-N-acetyl-D-galactosamine Biosynthesis	6.95E-01	1.11E-01		GALE
Folate Transformations I	6.95E-01	1.11E-01		MTR
Role of JAK1 and JAK3 in γ c Cytokine Signaling	6.91E-01	4.76E-02		BLNK, STAT1, JAK3
IL-9 Signaling	6.89E-01	5.88E-02		STAT1, JAK3
Germ Cell-Sertoli Cell Junction Signaling	6.89E-01	3.75E-02		RND2, RAC2, PVRL3, MAP3K4, BCAR1, ACTN1
IL-17A Signaling in Airway Cells	6.77E-01	4.69E-02		TRAF3IP2, TYK2, JAK3
Serotonin Degradation	6.77E-01	4.69E-02		ADH1C, UGT1A4, MAOA
PI3K Signaling in B Lymphocytes	6.77E-01	3.91E-02		BLNK, PLCB4, DAPP1, PLEKHA2, NFATC1
Coagulation System	6.7E-01	5.71E-02		BDKRB2, PLAT
Role of JAK2 in Hormone-like Cytokine Signaling	6.7E-01	5.71E-02		TYK2, STAT1
Noradrenaline and Adrenaline Degradation	6.7E-01	5.71E-02		ADH1C, MAOA
Histidine Degradation VI	6.55E-01	1E-01		MICAL1
Colorectal Cancer Metastasis Signaling	6.38E-01	3.39E-02		RND2, MMP28, WNT2B, TYK2, TLR7, LEF1, STAT1, JAK3
Remodeling of Epithelial Adherens Junctions	6.27E-01	4.41E-02		MET, HGF, ACTN1
Cholecystokinin/Gastrin-mediated Signaling	6.2E-01	3.96E-02		RND2, PLCB4, PRKD3, BCAR1
April Mediated Signaling	6.17E-01	5.26E-02		TNFSF13, NFATC1
Relaxin Signaling	6.16E-01	3.7E-02		PDE6C, TDP2, PDE5A, GNA14, NPR2
Growth Hormone Signaling	6.15E-01	4.35E-02		IGFALS, STAT1, PRKD3
Protein Kinase A Signaling	6.1E-01	3.12E-02		PLCB4, GLI3, MYLPP, NGFR, CDC14B, PDE6C, MYLK3, TDP2, PDE5A, LEF1, PRKD3, NFATC1
Role of NFAT in Regulation of the Immune System	6.04E-01	3.51E-02		BLNK, PLCB4, GNA14, FCGR1A, RCAN2, NFATC1
Netrin Signaling	6.01E-01	5.13E-02		RAC2, NFATC1
T Helper Cell Differentiation	5.92E-01	4.23E-02		NGFR, ICOS, STAT1
Cleavage and Polyadenylation of Pre-mRNA	5.86E-01	8.33E-02		CSTF2

Hematopoiesis from Multipotent Stem C	5.86E-01	8.33E-02	CSF1
Acyl-CoA Hydrolysis	5.86E-01	8.33E-02	ACOT1
Mineralocorticoid Biosynthesis	5.86E-01	8.33E-02	HSD3B1
BER pathway	5.86E-01	8.33E-02	OGG1
Role of PKR in Interferon Induction and	5.85E-01	5E-02	STAT1,FCGR1A
B Cell Activating Factor Signaling	5.85E-01	5E-02	TNFRSF13C,NFATC1
Basal Cell Carcinoma Signaling	5.8E-01	4.17E-02	GLI3,WNT2B,LEF1
B Cell Receptor Signaling	5.69E-01	3.41E-02	BLNK,PAX5,RAC2,DAPP1,MAP3K4,NFATC1
Ubiquinol-10 Biosynthesis (Eukaryotic)	5.56E-01	7.69E-02	MICAL1
Histamine Degradation	5.56E-01	7.69E-02	HNMT
Guanosine Nucleotides Degradation III	5.56E-01	7.69E-02	AOX1
Glucocorticoid Biosynthesis	5.56E-01	7.69E-02	HSD3B1
fMLP Signaling in Neutrophils	5.56E-01	3.7E-02	PLCB4,PRKD3,NFATC1,FPR1
Calcium Signaling	5.56E-01	3.37E-02	TNNT1,HDAC11,RCAN2,Tpm2,NFATC1,ATP2B2
VEGF Family Ligand-Receptor Interactio	5.38E-01	3.95E-02	NRP2,PRKD3,NRP1
IL-4 Signaling	5.38E-01	3.95E-02	TYK2,JAK3,NFATC1
Molecular Mechanisms of Cancer	5.32E-01	3.01E-02	RND2,RAC2,PLCB4,WNT2B,TYK2,LEF1,GNA14,RBL1,JAK3,PRKD3,BCL2L11
DNA Double-Strand Break Repair by No	5.29E-01	7.14E-02	XRCC4
Urate Biosynthesis/Inosine 5'-phosphate	5.29E-01	7.14E-02	AOX1
Phenylalanine Degradation IV (Mammal	5.29E-01	7.14E-02	MAOA
Colanic Acid Building Blocks Biosynthes	5.29E-01	7.14E-02	GALE
PDGF Signaling	5.28E-01	3.9E-02	TYK2,STAT1,JAK3
Dermatan Sulfate Biosynthesis (Late Sta	5.28E-01	4.55E-02	CHST3,HS3ST6
cAMP-mediated signaling	5.25E-01	3.2E-02	GABBR2,GRK4,LTB4R,PDE6C,TDP2,PDE5A,FPR1
Goq Signaling	5.25E-01	3.4E-02	RND2,PLCB4,GNA14,PRKD3,NFATC1
NAD biosynthesis II (from tryptophan)	5.05E-01	6.67E-02	NMNAT2
Chondroitin Sulfate Degradation (Metaz	5.05E-01	6.67E-02	ARSB
MSP-RON Signaling Pathway	5.02E-01	4.35E-02	CSF1,MST1R
Chondroitin Sulfate Biosynthesis (Late S	5.02E-01	4.35E-02	CHST3,HS3ST6
Type II Diabetes Mellitus Signaling	4.84E-01	3.42E-02	PKLR,NGFR,SLC2A2,PRKD3
CDP-diacylglycerol Biosynthesis I	4.82E-01	6.25E-02	GPAT2
Oxidative Ethanol Degradation III	4.82E-01	6.25E-02	ACSS1
Ephrin A Signaling	4.77E-01	4.17E-02	NGFR,BCAR1
PKCθ Signaling in T Lymphocytes	4.77E-01	3.39E-02	RAC2,POU2F1,MAP3K4,NFATC1
PTEN Signaling	4.77E-01	3.39E-02	RAC2,NGFR,BCAR1,BCL2L11
GPCR-Mediated Nutrient Sensing in Ent	4.64E-01	3.57E-02	PLCB4,GNA14,PRKD3
Adenosine Nucleotides Degradation II	4.6E-01	5.88E-02	AOX1
Putrescine Degradation III	4.6E-01	5.88E-02	MAOA
Gustation Pathway	4.56E-01	3.31E-02	SCNN1A,PDE6C,TDP2,PDE5A
Heparan Sulfate Biosynthesis (Late Sta	4.54E-01	4E-02	CHST3,HS3ST6
Xenobiotic Metabolism Signaling	4.5E-01	2.95E-02	ABCB1,ANKRA2,CHST3,HS3ST6,MAP3K4,UGT1A4,PRKD3,MAOA
RhoA Signaling	4.49E-01	3.28E-02	NRP2,MYLPF,MYLK3,PIP4K2A
Hematopoiesis from Pluripotent Stem C	4.43E-01	3.92E-02	CSF1,CD8B
Tryptophan Degradation X (Mammalian,	4.4E-01	5.56E-02	MAOA
Phosphatidylglycerol Biosynthesis II (N	4.4E-01	5.56E-02	GPAT2
Bladder Cancer Signaling	4.39E-01	3.45E-02	MMP28,FGF13,FGF1
CNTF Signaling	4.33E-01	3.85E-02	TYK2,STAT1
Neuregulin Signaling	4.31E-01	3.41E-02	BTC,PRKD3,MATK
UVA-Induced MAPK Signaling	4.31E-01	3.41E-02	PLCB4,ZC3HAV1,STAT1
Integrin Signaling	4.23E-01	2.99E-02	RND2,RAC2,ASAP1,MYLK3,BCAR1,ACTN1
Phototransduction Pathway	4.23E-01	3.77E-02	RGS9,PDE6C
Phospholipase C Signaling	4.22E-01	2.93E-02	RND2,BLNK,PLCB4,HDAC11,MYLPF,PRKD3,NFATC1
GADD45 Signaling	4.22E-01	5.26E-02	MAP3K4
Glutathione Redox Reactions I	4.22E-01	5.26E-02	Gstt1
Ethanol Degradation IV	4.22E-01	5.26E-02	ACSS1
Adipogenesis pathway	4.16E-01	3.15E-02	SREBF1,HDAC11,SAP130,FGF1
Chondroitin Sulfate Biosynthesis	4.13E-01	3.7E-02	CHST3,HS3ST6
Unfolded protein response	4.13E-01	3.7E-02	SREBF1,ERN1
Purine Nucleotides Degradation II (Aero	4.05E-01	5E-02	AOX1
GNRH Signaling	4.03E-01	3.1E-02	PLCB4,GNA14,MAP3K4,PRKD3
Thrombopoietin Signaling	4.03E-01	3.64E-02	STAT1,PRKD3
Fcy Receptor-mediated Phagocytosis in	3.93E-01	3.23E-02	RAC2,PRKD3,FCGR1A
Endoplasmic Reticulum Stress Pathway	3.89E-01	4.76E-02	ERN1
SAPK/JNK Signaling	3.86E-01	3.19E-02	RAC2,MAP3K4,NFATC1
ErbB2-ErbB3 Signaling	3.84E-01	3.51E-02	TYK2,JAK3
Heparan Sulfate Biosynthesis	3.84E-01	3.51E-02	CHST3,HS3ST6

Dermatan Sulfate Biosynthesis	3.84E-01	3.51E-02	CHST3,HS3ST6
Mouse Embryonic Stem Cell Pluripotenc	3.79E-01	3.16E-02	TYK2,LEF1,JAK3
Pyrimidine Deoxyribonucleotides De No	3.73E-01	4.55E-02	AK1
Differential Regulation of Cytokine Prod	3.59E-01	4.35E-02	LCN2
Sertoli Cell-Sertoli Cell Junction Signalin	3.47E-01	2.81E-02	CLDN4,PVRL3,MAP3K4,BCAR1,ACTN1
Nitric Oxide Signaling in the Cardiovasc	3.46E-01	3E-02	BDKRB2,PDE5A,PRKD3
Estrogen-mediated S-phase Entry	3.45E-01	4.17E-02	RBL1
Dopamine Degradation	3.45E-01	4.17E-02	MAOA
PPARα/RXRα Activation	3.43E-01	2.79E-02	PLCB4,FASN,CYP2C18,Cyp2c44,GNA14
Dendritic Cell Maturation	3.43E-01	2.79E-02	PLCB4,NGFR,STAT2,STAT1,FCGR1A
NRF2-mediated Oxidative Stress Respo	3.38E-01	2.78E-02	DNAJC9,AOX1,PRKD3,DNAJC16,ABCC4
Antiproliferative Role of Somatostatin R	3.34E-01	3.17E-02	SSTR2,NPR2
Role of Lipids/Lipid Rafts in the Pathoge	3.32E-01	4E-02	FDPS
Glycolysis I	3.32E-01	4E-02	PKLR
Synaptic Long Term Depression	3.31E-01	2.82E-02	PLCB4,GNA14,PRKD3,NPR2
Cell Cycle: G1/S Checkpoint Regulation	3.26E-01	3.12E-02	HDAC11,RBL1
NAD Salvage Pathway II	3.2E-01	3.85E-02	NMNAT2
IL-15 Signaling	3.12E-01	3.03E-02	TYK2,JAK3
Glioblastoma Multiforme Signaling	3.11E-01	2.74E-02	RND2,PLCB4,WNT2B,LEF1
Pancreatic Adenocarcinoma Signaling	3.11E-01	2.83E-02	TYK2,STAT1,JAK3
ERK/MAPK Signaling	3.08E-01	2.67E-02	RAC2,ELF3,STAT1,BCAR1,NFATC1
GABA Receptor Signaling	3.05E-01	2.99E-02	GABBR2,GABRB3
AMPK Signaling	3.02E-01	2.7E-02	AK1,DPF1,FASN,ACACA
iCOS-iCOSL Signaling in T Helper Cells	3E-01	2.78E-02	ICOS,PLEKHA2,NFATC1
Sphingosine-1-phosphate Signaling	2.95E-01	2.75E-02	RND2,PLCB4,S1PR5
Thrombin Signaling	2.91E-01	2.62E-02	RND2,PLCB4,MYLPPF,GNA14,PRKD3
Agtrin Interactions at Neuromuscular Jur	2.91E-01	2.9E-02	RAC2,PKLR
Pyrimidine Ribonucleotides Interconvers	2.87E-01	3.45E-02	AK1
Melatonin Signaling	2.85E-01	2.86E-02	PLCB4,PRKD3
Corticotropin Releasing Hormone Signa	2.85E-01	2.7E-02	GLI3,PRKD3,NPR2
Role of NANOG in Mammalian Embryon	2.85E-01	2.7E-02	WNT2B,TYK2,JAK3
IL-3 Signaling	2.79E-01	2.82E-02	STAT1,PRKD3
Renal Cell Carcinoma Signaling	2.79E-01	2.82E-02	MET,HGF
GPCR-Mediated Integration of Enteroen	2.79E-01	2.82E-02	PLCB4,GNA14
Sonic Hedgehog Signaling	2.77E-01	3.33E-02	GLI3
Pyrimidine Ribonucleotides De Novo Bid	2.68E-01	3.23E-02	AK1
Prolactin Signaling	2.66E-01	2.74E-02	STAT1,PRKD3
Ephrin B Signaling	2.66E-01	2.74E-02	RAC2,GNA14
STAT3 Pathway	2.66E-01	2.74E-02	NGFR,TYK2
FLT3 Signaling in Hematopoietic Proger	2.6E-01	2.7E-02	STAT2,STAT1
Superpathway of Methionine Degradatio	2.59E-01	3.12E-02	MTR
G Protein Signaling Mediated by Tubby	2.5E-01	3.03E-02	PLCB4
Synaptic Long Term Potentiation	2.47E-01	2.52E-02	PLCB4,GNA14,PRKD3
Acute Myeloid Leukemia Signaling	2.44E-01	2.6E-02	LEF1,PML
HMGB1 Signaling	2.42E-01	2.5E-02	RND2,NGFR,PLAT
Gai Signaling	2.42E-01	2.5E-02	GABBR2,LTB4R,FPR1
VDR/RXR Activation	2.38E-01	2.56E-02	SERPINB1,PRKD3
Sperm Motility	2.38E-01	2.48E-02	PLCB4,MST1R,PRKD3
Thyroid Hormone Metabolism II (via Cor	2.34E-01	2.86E-02	UGT1A4
Role of Wnt/GSK-3β Signaling in the Pa	2.33E-01	2.53E-02	WNT2B,LEF1
Ceramide Signaling	2.28E-01	2.5E-02	S1PR5,NGFR
Antigen Presentation Pathway	2.19E-01	2.7E-02	NLRC5
Notch Signaling	2.12E-01	2.63E-02	NUMBL
tRNA Charging	2.05E-01	2.56E-02	TARSL2
Inhibition of Matrix Metalloproteases	2.05E-01	2.56E-02	MMP28
Thyroid Cancer Signaling	1.99E-01	2.5E-02	LEF1

Supplementary Table 4.

Category	Term	Count	%	PValue	Genes	List Total	Pop Hits	Pop Total	Fold Enrichment	Bonferroni	Benjamini	FDR
SP_PIR_KEY WORDS	extracellular matrix	15	5.682	7.50E-07	COL4A2, PXDN, FBN1, ELN, COL3A1, ADAMTS15, NID1, SPARC, MMP2, COL5A1, SMOC2, LEPRE1, COL1A2, COL6A1,	232	213	17854	5.419	2.08E-04	2.08E-04	9.90E-04
GOTERM_MF_FAT	GO:0005201~extracellular matrix structural constituent	7	2.652	2.05E-06	COL4A2, FBN1, ELN, COL3A1, COL1A2, COL1A1, COL5A1, PXDN, MMP2, MMP1, ELN,	174	30	13288	17.82	7.12E-04	7.12E-04	0.0028
SP_PIR_KEY WORDS	Secreted	41	15.53	2.31E-06	HSD17B13, ADAMTS15, COL3A1, FST, ELN, PF4, FSTL1, CX3CL1, MMP2, MFRP, AHSG, SMOC2, C1QTNF6, C1QTNF4, COL6A1, DEFB1, MUP11, COL4A2, SVEP1, NTF3, GZMA, FBN1, IL1RN, NID1, SERPINA1E, FGF21, SPARC, COL5A1, CHRDL2, LEPRE1, COL1A2, HBEGF, EGFL8, COL1A1, GDF15, IGFBP2, TREM2	232	1420	17854	2.222	6.39E-04	3.19E-04	0.00304
SP_PIR_KEY WORDS	triple helix	5	1.894	3.27E-06	COL4A2, COL3A1, COL1A2, COL6A1, COL1A1	232	9	17854	42.75	9.05E-04	3.02E-04	0.00432
GOTERM_MF_FAT	GO:0048407~platelet-derived growth factor binding	5	1.894	3.32E-06	COL3A1, COL1A2, COL6A1, COL1A1, COL5A1, PXDN, MMP2, MMP1, ELN,	174	9	13288	42.43	0.001156	5.78E-04	0.00454
GOTERM_CC_FAT	GO:0005576~extracellular region	45	17.05	3.50E-06	HSD17B13, ADAMTS15, COL3A1, FST, ELN, PF4, FSTL1, CX3CL1, MMP2, MFRP, AHSG, SMOC2, C1QTNF6, C1QTNF4, GLIPR1, COL6A1, CASP1, DEFB1, MUP11, COL4A2, SVEP1, NGP, NTF3, GZMA, FBN1, IL1RN, NID1, SERPINA1E, FGF21, SPARC, COL5A1, CHRDL2, LEPRE1, COL1A2, HBEGF, EGFL8, COL1A1, GDF15, ADAM12, IGFBP2,	165	1680	12504	2.03	6.83E-04	6.83E-04	0.00437
GOTERM_CC_FAT	GO:0031012~extracellular matrix	16	6.061	1.34E-05	COL4A2, FBN1, ELN, ADAMTS15, COL3A1, NID1, SPARC, MMP2, COL5A1, AHSG, SMOC2, LEPRE1, COL1A2, COL6A1, COL1A1, ADAM12	165	309	12504	3.924	0.002601	0.001301	0.01667
GOTERM_CC_FAT	GO:0044420~extracellular matrix part	9	3.409	2.70E-05	SMOC2, COL4A2, FBN1, COL3A1, COL1A2, NID1, SPARC, COL1A1, COL5A1	165	92	12504	7.413	0.005248	0.001752	0.03368
GOTERM_CC_FAT	GO:0005578~proteinaceous extracellular matrix	15	5.682	3.62E-05	COL4A2, FBN1, ELN, COL3A1, ADAMTS15, NID1, SPARC, MMP2, COL5A1, SMOC2, LEPRE1, COL1A2, COL6A1,	165	297	12504	3.827	0.007036	0.001764	0.04519
GOTERM_MF_FAT	GO:0070330~aromatase activity	6	2.273	7.23E-05	CYP2D9, CYP4A12A, CYP1A1, CYP3A11, CYP2C67, CYP2C40, CYP2B10	174	34	13288	13.48	0.024862	0.008357	0.09881
INTERPRO	IPR008160:Collagen triple helix repeat	8	3.03	7.48E-05	COL4A2, C1QTNF6, COL3A1, COL1A2, COL6A1, COL1A1, COL5A1, MFRP	226	81	17763	7.763	0.035928	0.035928	0.10736
UP_SEQ_FEATURE	domain:VWFC	5	1.894	8.50E-05	PXDN, COL3A1, FSTL1, COL1A1, AMN	231	17	16021	20.4	0.06314	0.06314	0.12972
GOTERM_CC_FAT	GO:0005581~collagen	5	1.894	9.48E-05	COL4A2, COL3A1, COL1A2, COL1A1, COL5A1	165	19	12504	19.94	0.018321	0.003691	0.11829

SP_PIR_KEY WORDS	signal	62	23.48	1.05E-04	LY9, LRRC15, AMN, C530028O21RIK, MMP2, CD93, DSEL, TREH, MUP11, GZMA, ERP29, DLL1, FGF21, CHRDL2, COL1A2, CD300LF, EGFL8, COL1A1, ADAM12, TREM2, CTSF, EMCN, HSD17B13, ADAMTS15, COL3A1, ELN, PF4, CX3CL1, SERPINH1, MFRP, AHSG, VCAM1, LY6A, SMOC2, C1QTNF6, C1QTNF4, GLIPR1, NUP210, COL6A1, GPNMB, DEFB1, LYZ2, COL4A2, LYZ1, SVEP1, NTF3, IL1RN, FBN1, NID1, SERPINA1E, SPARC, COL5A1, LAMP3, LEPRE1, HBEGF, GDF15, IGFBP2	232	2970	17854	1.607	0.028785	0.007275	0.13909
SP_PIR_KEY WORDS	collagen	8	3.03	1.08E-04	COL4A2, C1QTNF6, COL3A1, COL1A2, COL6A1, COL1A1, COL5A1, MFRP	232	84	17854	7.329	0.029411	0.005953	0.14216
UP_SEQ_FEATURE	region of interest:Triple-helical region	5	1.894	1.08E-04	COL4A2, COL3A1, COL6A1, COL1A1, COL5A1	231	18	16021	19.27	0.079572	0.04061	0.16489
SP_PIR_KEY WORDS	hydroxylation	7	2.652	1.76E-04	COL4A2, ELN, COL3A1, COL1A2, COL6A1, COL1A1, COL5A1	232	64	17854	8.417	0.047631	0.008101	0.2323
INTERPRO	IPR001007: von Willebrand factor, type C	6	2.273	1.81E-04	CHRDL2, PXDN, COL3A1, FSTL1, COL1A1, AMN	226	42	17763	11.23	0.084758	0.043317	0.25967
GOTERM_CC_FAT	GO:0044421~extracellular region part	24	9.091	1.90E-04	COL4A2, TNF, LEPR, FBN1, ELN, ADAMTS15, IL1RN, COL3A1, NID1, PF4, CX3CL1, SPARC, MMP2, COL5A1, AHSG, SMOC2, LEPRE1, COL1A2, COL6A1, HBEGF, COL1A1, IGFBP2, GDF15,	165	774	12504	2.35	0.036411	0.006163	0.23714
GOTERM_MF_FAT	GO:0016712~oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen, reduced flavin or flavoprotein as one donor, and incorporation of one atom of oxygen	6	2.273	2.54E-04	CYP2D9, CYP4A12A, CYP1A1, CYP3A11, CYP2C67, CYP2C40, CYP2B10	174	44	13288	10.41	0.084669	0.021875	0.34679
SMART	SM00214:VWC	6	2.273	2.91E-04	CHRDL2, PXDN, COL3A1, FSTL1, COL1A1, AMN	130	42	9131	10.03	0.03492	0.03492	0.33489
INTERPRO	IPR000885: Fibrillar collagen, C-terminal	4	1.515	3.07E-04	COL3A1, COL1A2, COL1A1, COL5A1	226	11	17763	28.58	0.139402	0.048811	0.43975
UP_SEQ_FEATURE	domain:Fibrillar collagen NC1	4	1.515	3.25E-04	COL3A1, COL1A2, COL1A1, COL5A1	231	10	16021	27.74	0.22084	0.079814	0.49541
GOTERM_BP_FAT	GO:0006259~DNA metabolic process	16	6.061	3.38E-04	DNMT3A, FHIT, ING4, HMGB2, APEX2, NASP, EME1, POT1A, MCM6, RFC5, DCLRE1C, EPC2, RFC4, EEF1E1, TDG, DNMT3B	175	421	13588	2.951	0.313056	0.313056	0.54013
GOTERM_MF_FAT	GO:0019838~growth factor binding	7	2.652	3.43E-04	NTF3, COL3A1, COL1A2, COL6A1, COL1A1, IGFBP2, COL5A1	174	72	13288	7.425	0.112438	0.023573	0.46728

SMART	SM00038:COLFI	4	1.515	4.18E-04	COL3A1, COL1A2, COL1A1, COL5A1	130	11	9131	25.54	0.049775	0.025205	0.48068
SP_PIR_KEY WORDS	collagen binding	3	1.136	9.83E-04	NID1, SPARC, SERPINH1	232	4	17854	57.72	0.238486	0.038173	1.28995
GOTERM_BP_FAT	GO:0044036~cell wall macromolecule metabolic process	4	1.515	0.001022	LYZ2, LYZ1, LYSMD1, LYSMD4	175	16	13588	19.41	0.678683	0.433152	1.62418
GOTERM_BP_FAT	GO:0016998~cell wall macromolecule catabolic process	4	1.515	0.001022	LYZ2, LYZ1, LYSMD1, LYSMD4	175	16	13588	19.41	0.678683	0.433152	1.62418
INTERPRO	IPR006209:EGF	8	3.03	0.001233	NRG4, SVEP1, CD93, FBN1, HBEGF, DLL1, NID1, EGFL8	226	128	17763	4.912	0.452973	0.139992	1.75537
SP_PIR_KEY WORDS	disulfide bond	50	18.94	0.001305	NRG4, SVEP1, CD93, FBN1, HBEGF, DLL1, NID1, EGFL8, CD300LF, EGFL8, TREM2, ADAM12, CTSF, TNF, ADAMTS15, ELN, COL3A1, PF4, CX3CL1, MFRP, AHSG, VCAM1, LY6A, SMOC2, ADRA2A, GALNT11, DEFB1, LYZ2, COL4A2, LYZ1, SVEP1, NTF3, FBN1, IL1RN, NID1, SPARC, TFRC, HBEGF, IGFBP2,	232	2469	17854	1.558	0.303564	0.044215	1.70928
INTERPRO	IPR015369:Follistatin/Osteonectin-like EGF domain	3	1.136	0.001558	FST, FSTL1, SPARC	226	5	17763	47.16	0.533411	0.141408	2.21301
UP_SEQ_FEATURE	signal peptide	62	23.48	0.001586	LY9, LRRC15, AMN, C530028O21RIK, MMP2, CD93, DSEL, TREH, MUP11, GZMA, ERP29, DLL1, FGF21, CHRDL2, COL1A2, CD300LF, EGFL8, COL1A1, ADAM12, TREM2, CTSF, EMCN, HSD17B13, ADAMTS15, COL3A1, ELN, PF4, CX3CL1, SERPINH1, MFRP, AHSG, VCAM1, LY6A, SMOC2, C1QTNF6, C1QTNF4, GLIPR1, NUP210, COL6A1, GPNMB, DEFB1, LYZ2, COL4A2, LYZ1, SVEP1, NTF3, IL1RN, FBN1, NID1, SERPINA1E, SPARC, COL5A1, LAMP3, LEPRE1, HBEGF, GDF15, IGFBP2	231	2963	16021	1.451	0.704093	0.262454	2.39439
GOTERM_BP_FAT	GO:0030198~extracellular matrix organization	7	2.652	0.001878	SMOC2, TNF, ELN, COL3A1, NID1, SERPINH1, COL5A1	175	101	13588	5.381	0.875935	0.501249	2.9652
PIR_SUPERFAMILY	PIRSF002255:collagen alpha 1(I) chain	3	1.136	0.001893	COL3A1, COL1A2, COL1A1	115	5	8136	42.45	0.206418	0.206418	2.15828
SP_PIR_KEY WORDS	microsome	7	2.652	0.001906	CYP2D9, CYP4A12A, CYP1A1, CYP3A11, CYP2C67, FMO3, CYP2C40, CYP2B10	232	100	17854	5.387	0.410415	0.057014	2.48635
KEGG_PATHWAY	mmu00830:Retinol metabolism	6	2.273	0.002306	CYP4A12A, CYP1A1, CYP3A11, CYP2C67, CYP2C40, ADH7, CYP2B10	80	68	5738	6.329	0.218874	0.218874	2.56161
SP_PIR_KEY WORDS	Monooxygenase	7	2.652	0.002809	CYP2D9, CYP4A12A, CYP1A1, CYP3A11, CYP2C67, FMO3, CYP2C40, CYP2B10	232	108	17854	4.988	0.541241	0.074964	3.6453

UP_SEQ_FE ATURE	propeptide:N- terminal propeptide	3	1.136	0.002963	COL3A1, COL1A2, COL1A1	231	6	16021	34.68	0.897325	0.365703	4.42906
UP_SEQ_FE ATURE	metal ion- binding site:Iron (heme axial ligand)	7	2.652	0.003029	CYP2D9, PXDN, CYP4A12A, CYP1A1, CYP3A11, CYP2C67, CYP2C40, CYP2B10	231	99	16021	4.904	0.902385	0.321443	4.52513
GOTERM_CC FAT	GO:0005583~fib rillar collagen	3	1.136	0.003439	COL3A1, COL1A2, COL1A1	165	7	12504	32.48	0.489156	0.091496	4.20838
KEGG_PATH WAY	mmu00982:Drug metabolism	6	2.273	0.003543	CYP2D9, CYP3A11, CYP2C67, FMO3, CYP2C40, ADH7, CYP2B10	80	75	5738	5.738	0.315984	0.172947	3.91107
INTERPRO	IPR017973:Cyto chrome P450, C- terminal region	6	2.273	0.003662	CYP2D9, CYP4A12A, CYP1A1, CYP3A11, CYP2C67, CYP2C40, CYP2B10	226	81	17763	5.822	0.833678	0.258419	5.12981
INTERPRO	IPR000742:EGF- like, type 3	9	3.409	0.003923	NRG4, SVEP1, CD93, FBN1, HBEGF, DLL1, NID1, EGFL8,	226	199	17763	3.555	0.853719	0.240127	5.48673
GOTERM_BP FAT	GO:0060348~bo ne development	7	2.652	0.004089	CHRD2, INSIG2, COL1A1, GPNMB, WWTR1, MMP2, AHSG	175	118	13588	4.606	0.98941	0.679206	6.34894
UP_SEQ_FE ATURE	propeptide:C- terminal propeptide	3	1.136	0.004109	COL3A1, COL1A2, COL1A1	231	7	16021	29.72	0.957506	0.363135	6.09242
GOTERM_BP FAT	GO:0001568~bl ood vessel development	10	3.788	0.004211	EMCN, HEY1, CXCR4, LEPR, COL3A1, HBEGF, COL1A1, CX3CL1, MMP2, COL5A1	175	244	13588	3.182	0.990761	0.608148	6.53318
GOTERM_M F_FAT	GO:0008201~he parin binding	6	2.273	0.004524	SMOC2, HBEGF, PF4, FSTL1, GPNMB, COL5A1	174	83	13288	5.521	0.793597	0.231248	6.00808
UP_SEQ_FE ATURE	short sequence motif:Cell attachment site	6	2.273	0.004719	TFRC, COL6A1, NID1, COL1A1, GPNMB, IGFBP2	231	76	16021	5.475	0.973429	0.364594	6.9659
GOTERM_BP FAT	GO:0001944~va sculature development	10	3.788	0.004943	EMCN, HEY1, CXCR4, LEPR, COL3A1, HBEGF, COL1A1, CX3CL1, MMP2, COL5A1	175	250	13588	3.106	0.995916	0.6002	7.62728
INTERPRO	IPR001128:Cyto chrome P450	6	2.273	0.004969	CYP2D9, CYP4A12A, CYP1A1, CYP3A11, CYP2C67, CYP2C40, CYP2B10	226	87	17763	5.421	0.912463	0.26248	6.90072
SP_PIR_KEY WORDS	electron transfer	4	1.515	0.004972	CYP2D9, CYP1A1, CYP3A11, CYP2B10	232	27	17854	11.4	0.748607	0.117963	6.36807
SP_PIR_KEY WORDS	glycoprotein	64	24.24	0.005423	B3GALT6, LEPR, FST, FSTL1, LY9, LRRC15, AMN, MMP2, CD93, CXCR4, DSEL, TREH, SLC43A2, B3GALT, GZMA, DLL1, SAG, CHRD2, COL1A2, EGFL8, COL1A1, ADAM12, TREM2, CTSF, EMCN, TNF, ADAMTS15, COL3A1, PF4, SERPINH1, MFRP, AHSG, VCAM1, LY6A, SMOC2, C1QTNF6, NUP210, PTPLA, ADRA2A, COL6A1, GALNT11, GPNMB, LYSMD4, COL4A2, SVEP1, NTF3, IL1RN, FBN1, SLC10A6, NID1, SERPINA1E, SPARC, CD63, LAMP3, LEPRE1, TFRC, HBEGF, GDF15, IGFBP2,	232	3600	17854	1.368	0.778253	0.11796	6.9263
INTERPRO	IPR017972:Cyto chrome P450, conserved site	6	2.273	0.005469	CYP2D9, CYP4A12A, CYP1A1, CYP3A11, CYP2C67, CYP2C40, CYP2B10	226	89	17763	5.299	0.931567	0.257691	7.57119
KEGG_PATH WAY	mmu04512:EC M-receptor interaction	6	2.273	0.005473	COL4A2, COL3A1, COL1A2, COL6A1, COL1A1, COL5A1	80	83	5738	5.185	0.444129	0.177774	5.98246

GOTERM_BP_FAT	GO:0033554~cellular response to stress	13	4.924	0.005847	ING4, PXDN, HMGB2, APEX2, TNF, EME1, DCLRE1C, EPC2, CDKN1A, EEF1E1, TDG, TRPV4, PHLDA3	175	404	13588	2.499	0.998511	0.605426	8.96173
SP_PIR_KEY_WORDS	metalloprotein	5	1.894	0.005926	CYP2D9, CYP1A1, CYP3A11, ADH7, CYP2B10	232	56	17854	6.871	0.807249	0.118952	7.54581
INTERPRO	IPR001881:EGF-like calcium-binding	6	2.273	0.006005	SVEP1, CD93, FBN1, DLL1, NID1, EGFL8	226	91	17763	5.182	0.947413	0.255117	8.28309
GOTERM_MF_FAT	GO:0001871~pattern binding	7	2.652	0.006554	SMOC2, FBN1, HBEGF, PF4, FSTL1, GPNMB, COL5A1	174	128	13288	4.176	0.898578	0.278861	8.59432
GOTERM_MF_FAT	GO:0030247~polysaccharide binding	7	2.652	0.006554	SMOC2, FBN1, HBEGF, PF4, FSTL1, GPNMB, COL5A1	174	128	13288	4.176	0.898578	0.278861	8.59432
INTERPRO	IPR003645:Follistatin-like, N-terminal	3	1.136	0.006723	FST, FSTL1, SPARC	226	10	17763	23.58	0.963059	0.259076	9.22904
INTERPRO	IPR000152:EGF-type aspartate/asparagine hydroxylation conserved site	6	2.273	0.006876	SVEP1, CD93, FBN1, DLL1, NID1, EGFL8	226	94	17763	5.017	0.965745	0.245093	9.42998
INTERPRO	IPR018097:EGF-like calcium-binding, conserved site	6	2.273	0.006876	SVEP1, CD93, FBN1, DLL1, NID1, EGFL8	226	94	17763	5.017	0.965745	0.245093	9.42998
SP_PIR_KEY_WORDS	cell binding	3	1.136	0.007004	COL4A2, COL6A1, NID1	232	10	17854	23.09	0.857308	0.129838	8.86123
GOTERM_BP_FAT	GO:0030155~regulation of cell adhesion	6	2.273	0.007134	SMOC2, EMCN, PIK3CB, NID1, COL1A1, CYTH3	175	94	13588	4.956	0.999646	0.629702	10.8304
UP_SEQ_FEATURE	disulfide bond	49	18.56	0.008207	MIF2L1, PXDN, NRG4, COL1A1, LEPR, FST, FSTL1, LY9, MMP2, CD93, CXCR4, MUP11, GZMA, DLL1, SAG, CCR2, CD300LF, EGFL8, TREM2, ADAM12, CTSF, TNF, ADAMTS15, ELN, COL3A1, PF4, CX3CL1, MFRP, AHSG, VCAM1, LY6A, SMOC2, ADRA2A, GALNT11, DEFB1, LYZ2, COL4A2, SVEP1, LYZ1, NTF3, FBN1, IL1RN, NID1, SPARC, TFRC, HBEGF,	231	2379	16021	1.428	0.998202	0.504574	11.8212
SMART	SM00274:FOLN	3	1.136	0.008275	FST, FSTL1, SPARC	130	10	9131	21.07	0.63715	0.286749	9.12392
SP_PIR_KEY_WORDS	egf-like domain	9	3.409	0.00845	NRG4, SVEP1, CD93, FBN1, HBEGF, DLL1, NID1, EGFL8,	232	222	17854	3.12	0.904695	0.14505	10.5975
GOTERM_MF_FAT	GO:0030246~carbohydrate binding	11	4.167	0.008612	SMOC2, EMCN, CD93, FBN1, HBEGF, PF4, FSTL1, GPNMB, GALNT11, GPCPD1, COL5A1	174	317	13288	2.65	0.950712	0.313576	11.148
UP_SEQ_FEATURE	domain:EGF-like 5; calcium-binding	4	1.515	0.00891	SVEP1, CD93, FBN1, NID1	231	30	16021	9.247	0.998956	0.496627	12.7693
SMART	SM00179:EGF_CA	6	2.273	0.009197	SVEP1, CD93, FBN1, DLL1, NID1, EGFL8	130	91	9131	4.631	0.676086	0.24559	10.0923
SP_PIR_KEY_WORDS	basement membrane	4	1.515	0.00952	SMOC2, COL4A2, NID1, SPARC	232	34	17854	9.054	0.929329	0.152621	11.8625
SP_PIR_KEY_WORDS	heme	7	2.652	0.010478	CYP2D9, PXDN, CYP4A12A, CYP1A1, CYP3A11, CYP2C67, CYP2C40, CYP2B10	232	142	17854	3.794	0.945942	0.157709	12.9809
COG_ONTOLOGY	Secondary metabolites biosynthesis, transport, and catabolism	6	2.273	0.01061	CYP2D9, CYP4A12A, CYP1A1, CYP3A11, CYP2C67, CYP2C40, CYP2B10	27	109	2040	4.159	0.129479	0.129479	6.81827

UP_SEQ_FE ATURE	domain:EGF-like 4; calcium- binding	4	1.515	0.010659	SVEP1, CD93, FBN1, DLL1	231	32	16021	8.669	0.999731	0.526307	15.0902
GOTERM_M F_FAT	GO:0020037~he me binding	7	2.652	0.011374	CYP2D9, PXDN, CYP4A12A, CYP1A1, CYP3A11, CYP2C67, CYP2C40, CYP2B10	174	144	13288	3.712	0.981331	0.357456	14.4714
INTERPRO	IPR013091:EGF calcium-binding	5	1.894	0.011404	SVEP1, CD93, FBN1, NID1, EGFL8	226	69	17763	5.695	0.996334	0.350427	15.1812
GOTERM_BP _FAT	GO:0001503~os sification	6	2.273	0.011661	CHRDL2, COL1A1, GPNMB, WWTR1, MMP2, AHSG	175	106	13588	4.395	0.999998	0.764635	17.1206
GOTERM_BP _FAT	GO:0006974~re sponse to DNA damage stimulus	10	3.788	0.011679	DCLRE1C, ING4, CDKN1A, EPC2, HMGB2, APEX2, EEF1E1, EME1, TDG, PHLDA3	175	287	13588	2.705	0.999998	0.728551	17.1449
INTERPRO	IPR002401:Cyto chrome P450, E- class, group I	5	1.894	0.011978	CYP2D9, CYP4A12A, CYP1A1, CYP2C67, CYP2C40, CYP2B10	226	70	17763	5.614	0.99724	0.343548	15.8853
GOTERM_BP _FAT	GO:0043062~ex tracellular structure organization	7	2.652	0.012309	SMOC2, TNF, ELN, COL3A1, NID1, SERPINH1, COL5A1	175	149	13588	3.648	0.999999	0.713446	17.987
KEGG_PATH WAY	mmu00980:Met abolism of xenobiotics by cytochrome P450	5	1.894	0.012582	CYP1A1, CYP3A11, CYP2C67, CYP2C40, ADH7, CYP2B10	80	66	5738	5.434	0.742016	0.287314	13.2666
GOTERM_BP _FAT	GO:0006260~D NA replication	7	2.652	0.013476	RFC5, FHIT, ING4, RFC4, NASP, POT1A, MCM6	175	152	13588	3.576	1	0.714919	19.524
PIR_SUPERF AMILY	PIRSF000045:cyt ochrome P450 CYP2D6	4	1.515	0.013672	CYP2D9, CYP1A1, CYP2C67, CYP2C40, CYP2B10	115	36	8136	7.861	0.813522	0.568169	14.6574
GOTERM_M F_FAT	GO:0046906~tet rapyrrole binding	7	2.652	0.014144	CYP2D9, PXDN, CYP4A12A, CYP1A1, CYP3A11, CYP2C67, CYP2C40, CYP2B10	174	151	13288	3.54	0.992969	0.390881	17.689
GOTERM_BP _FAT	GO:0010810~re gulation of cell- substrate adhesion	4	1.515	0.014412	SMOC2, PIK3CB, NID1, COL1A1	175	40	13588	7.765	1	0.71048	20.7382
GOTERM_BP _FAT	GO:0051258~pr otein polymerization	4	1.515	0.014412	TUBA8, TUBB2A, TUBD1, TES	175	40	13588	7.765	1	0.71048	20.7382
SP_PIR_KEY WORDS	chromoprotein	4	1.515	0.014854	CYP2D9, CYP1A1, CYP3A11, CYP2B10	232	40	17854	7.696	0.984165	0.205711	17.9265
INTERPRO	IPR008983:Tum our necrosis factor-like	4	1.515	0.015008	TNF, C1QTNF6, C1QTNF4, MFRP	226	41	17763	7.668	0.999385	0.389184	19.5129
INTERPRO	IPR006210:EGF- like	8	3.03	0.015026	NRG4, SVEP1, CD93, FBN1, HBEGF, DLL1, NID1, EGFL8	226	203	17763	3.097	0.999391	0.370423	19.534
GOTERM_CC _FAT	GO:0005604~ba sement membrane	5	1.894	0.015412	SMOC2, COL4A2, NID1, SPARC, COL5A1	165	73	12504	5.191	0.951622	0.315173	17.6234
SP_PIR_KEY WORDS	glycosidase	5	1.894	0.015515	LYZ2, LYZ1, TDG, TREH, NEU3	232	74	17854	5.2	0.98685	0.203849	18.65
GOTERM_M F_FAT	GO:0005539~gly cosaminoglycan binding	6	2.273	0.01661	SMOC2, HBEGF, PF4, FSTL1, GPNMB, COL5A1	174	114	13288	4.019	0.997059	0.411341	20.4585
INTERPRO	IPR000716:Thyr oglobulin type-1	3	1.136	0.017054	SMOC2, NID1, IGFBP2	226	16	17763	14.74	0.999778	0.390305	21.8808
INTERPRO	IPR000886:Endo plasmic reticulum, targeting sequence	4	1.515	0.017058	LEPRE1, ERP29, SERPINH1, B3GALT1	226	43	17763	7.311	0.999778	0.373369	21.8845

INTERPRO	IPR013032:EGF-like region, conserved site	10	3.788	0.017601	NRG4, SVEP1, CD93, FBN1, HBEGF, DLL1, NID1, EGFL8, ADAM12, ZFP61	226	310	17763	2.535	0.999831	0.366837	22.502
UP_SEQ_FEATURE	domain:EGF-like 1	6	2.273	0.018361	SVEP1, CD93, FBN1, DLL1, NID1, EGFL8	231	106	16021	3.926	0.999999	0.694102	24.6399
GOTERM_BP_FAT	GO:0045765~regulation of angiogenesis	4	1.515	0.019763	COL4A2, PF4, CX3CL1, RUNX1	175	45	13588	6.902	1	0.794557	27.3535
SMART	SM00211:TY	3	1.136	0.020881	SMOC2, NID1, IGFBP2	130	16	9131	13.17	0.923802	0.40243	21.5696
INTERPRO	IPR002350:Proteinase inhibitor I1, Kazal	4	1.515	0.022835	SMOC2, FST, FSTL1, SPARC	226	48	17763	6.55	0.999988	0.431514	28.2225
UP_SEQ_FEATURE	glycosylation site:O-linked (GalNAc...)	4	1.515	0.023645	TFRC, HBEGF, PF4, NID1	231	43	16021	6.452	1	0.756304	30.6
SMART	SM00181:EGF	8	3.03	0.024812	NRG4, SVEP1, CD93, FBN1, HBEGF, DLL1, NID1, EGFL8	130	203	9131	2.768	0.953356	0.400026	25.1195
INTERPRO	IPR009428:Beta-catenin-interacting ICAT	2	0.758	0.025174	CTNNBIP1, LZIC	226	2	17763	78.6	0.999996	0.447717	30.6501
GOTERM_BP_FAT	GO:0060346~bone trabecula formation	2	0.758	0.025448	COL1A1, MMP2	175	2	13588	77.65	1	0.851551	33.8131
SP_PIR_KEY_WORDS	laminin binding	2	0.758	0.02571	COL4A2, NID1	232	2	17854	76.96	0.999264	0.302839	29.0943
SP_PIR_KEY_WORDS	bacteriolytic enzyme	2	0.758	0.02571	LYZ2, LYZ1	232	2	17854	76.96	0.999264	0.302839	29.0943
GOTERM_CC_FAT	GO:0005584~collagen type I	2	0.758	0.026061	COL1A2, COL1A1	165	2	12504	75.78	0.994196	0.43568	28.079
INTERPRO	IPR000217:Tubulin	3	1.136	0.026124	TUBA8, TUBB2A, TUBD1	226	20	17763	11.79	0.999998	0.444777	31.6143
INTERPRO	IPR003008:Tubulin/FtsZ, GTPase domain	3	1.136	0.026124	TUBA8, TUBB2A, TUBD1	226	20	17763	11.79	0.999998	0.444777	31.6143
PIR_SUPERFAMILY	PIRSF038428:DNA (cytosine-5)-methyltransferase 3B, Dnmt3b type	2	0.758	0.027829	DNMT3A, DNMT3B	115	2	8136	70.75	0.96804	0.682652	27.7441
GOTERM_CC_FAT	GO:0005792~microsome region of interest:Nonhelical region (N-terminal)	7	2.652	0.028453	CYP2D9, CYP4A12A, CYP1A1, CYP3A11, CYP2C67, FMO3, CYP2C40, CYP2B10	165	176	12504	3.014	0.996407	0.430433	30.2533
UP_SEQ_FEATURE	region of interest:Nonhelical region (N-terminal)	2	0.758	0.028507	COL3A1, COL1A1	231	2	16021	69.35	1	0.794945	35.692
GOTERM_BP_FAT	GO:0030199~collagen fibril organization	3	1.136	0.02919	COL3A1, SERPINH1, COL5A1	175	21	13588	11.09	1	0.871937	37.7673
SMART	SM00280:KAZAL	4	1.515	0.030035	SMOC2, FST, FSTL1, SPARC	130	48	9131	5.853	0.975775	0.412267	29.6093
GOTERM_BP_FAT	GO:0001501~skeletal system development	9	3.409	0.03044	CHRDL2, INSIG2, HOXB8, COL1A1, RUNX1, GPNMB, WWTR1, MMP2, AHSG	175	285	13588	2.452	1	0.867134	39.0371
SP_PIR_KEY_WORDS	heparin-binding	4	1.515	0.031184	HBEGF, PF4, FSTL1, COL5A1	232	53	17854	5.808	0.999846	0.341564	34.1771
PIR_SUPERFAMILY	PIRSF002306:tubulin	3	1.136	0.031372	TUBA8, TUBB2A, TUBD1	115	20	8136	10.61	0.979528	0.621741	30.7186
GOTERM_CC_FAT	GO:0042598~vesicular fraction	7	2.652	0.032767	CYP2D9, CYP4A12A, CYP1A1, CYP3A11, CYP2C67, FMO3, CYP2C40, CYP2B10	165	182	12504	2.915	0.998491	0.446004	34.0219
GOTERM_BP_FAT	GO:0019835~cytolysis	3	1.136	0.034588	LYZ2, LYZ1, GZMA	175	23	13588	10.13	1	0.885903	43.0818

GOTERM_BP_FAT	GO:0019221~cytokine-mediated signaling pathway	4	1.515	0.034886	TNF, CCR2, PF4, CX3CL1	175	56	13588	5.546	1	0.874378	43.3622
INTERPRO	IPR017975:Tubulin, conserved site	3	1.136	0.036719	TUBA8, TUBB2A, TUBD1	226	24	17763	9.825	1	0.548585	41.552
INTERPRO	IPR013748:Replication factor C	2	0.758	0.037523	RFC5, RFC4	226	3	17763	52.4	1	0.541248	42.2487
GOTERM_BP_FAT	GO:0043045~DNA methylation during embryonic development	2	0.758	0.037929	DNMT3A, DNMT3B	175	3	13588	51.76	1	0.883052	46.1547
SP_PIR_KEYWORDS	heterotrimer	3	1.136	0.038164	COL4A2, COL6A1, COL1A1	232	24	17854	9.62	0.999979	0.387328	40.1687
GOTERM_MF_FAT	GO:0003886~DNA (cytosine-5-)-methyltransferase activity	2	0.758	0.038554	DNMT3A, DNMT3B	174	3	13288	50.91	0.999999	0.680245	41.5662
GOTERM_MF_FAT	GO:0009008~DNA-methyltransferase activity	2	0.758	0.038554	DNMT3A, DNMT3B	174	3	13288	50.91	0.999999	0.680245	41.5662
GOTERM_CC_FAT	GO:0031982~vesicle	13	4.924	0.040507	TNF, NTF3, NGP, IL1RN, ERP29, DLL1, WIP1, TFRC, CD93, SLC30A3, DOC2B, GPNMB, TES	165	519	12504	1.898	0.999685	0.489281	40.3173
GOTERM_BP_FAT	GO:0048545~response to steroid hormone stimulus	4	1.515	0.041516	HMGB2, LEPR, COL1A1, TES	175	60	13588	5.176	1	0.893678	49.2804
GOTERM_MF_FAT	GO:0050840~extracellular matrix binding	3	1.136	0.041564	ELN, NID1, SPARC	174	25	13288	9.164	1	0.679037	44.0171
UP_SEQ_FEATURE	zinc finger region:ADD-type	2	0.758	0.042456	DNMT3A, DNMT3B	231	3	16021	46.24	1	0.89121	48.431
UP_SEQ_FEATURE	domain:Follistatin-like	2	0.758	0.042456	FSTL1, SPARC	231	3	16021	46.24	1	0.89121	48.431
UP_SEQ_FEATURE	region of interest:Interaction with the PRC2/EED-EZH2 complex	2	0.758	0.042456	DNMT3A, DNMT3B	231	3	16021	46.24	1	0.89121	48.431
GOTERM_CC_FAT	GO:0019898~extrinsic to membrane	12	4.545	0.046477	CYP2D9, SVEP1, CYP1A1, CYP3A11, CYP2C67, CYP2C40, LANCL1, CYP2B10, CYP4A12A, CERK, NEU3, DOC2B, PHLDA3	165	472	12504	1.927	0.999907	0.510259	44.7909
GOTERM_MF_FAT	GO:0009055~electron carrier activity	7	2.652	0.048687	CYP2D9, CYB5R1, CYP4A12A, CYP1A1, CYP3A11, CYP2C67, CYP2C40, CYP2B10	174	202	13288	2.646	1	0.710814	49.4427
UP_SEQ_FEATURE	domain:EGF-like 7; calcium-binding	3	1.136	0.049583	SVEP1, FBN1, DLL1	231	25	16021	8.323	1	0.912648	53.989
GOTERM_BP_FAT	GO:0042742~defensive response to bacterium	5	1.894	0.049962	LYZ2, TNF, LYZ1, NGP, DEFB1	175	108	13588	3.595	1	0.924674	55.9809
GOTERM_BP_FAT	GO:0032835~glomerulus development	2	0.758	0.050252	NID1, WWTR1	175	4	13588	38.82	1	0.916944	56.1956

SP_PIR_KEY WORDS	stress-induced protein	2	0.758	0.050762	HSPB1, SERPINH1	232	4	17854	38.48	0.999999	0.466026	49.7257
SP_PIR_KEY WORDS	heat shock	2	0.758	0.050762	HSPB1, SERPINH1	232	4	17854	38.48	0.999999	0.466026	49.7257
GOTERM_MF_FAT	GO:0005547~phosphatidylinositol-3,4,5-trisphosphate binding	2	0.758	0.051075	CYTH3, PHLDA3	174	4	13288	38.18	1	0.703664	51.149
GOTERM_MF_FAT	GO:0033170~protein-DNA loading ATPase activity	2	0.758	0.051075	RFC5, RFC4	174	4	13288	38.18	1	0.703664	51.149
GOTERM_MF_FAT	GO:0003689~DNA clamp loader activity	2	0.758	0.051075	RFC5, RFC4	174	4	13288	38.18	1	0.703664	51.149
GOTERM_CC_FAT	GO:0005663~DNA replication factor C complex	2	0.758	0.051446	RFC5, RFC4	165	4	12504	37.89	0.999966	0.520811	48.2765
SP_PIR_KEY WORDS	transmembrane protein	10	3.788	0.051576	CYP2D9, VCAM1, CYP4A12A, TFRC, CYP1A1, LEPR, CYP3A11, HBEGF, CYP2B10, CD63	232	370	17854	2.08	1	0.457285	50.2921
INTERPRO	IPR001073:Complement C1q protein	3	1.136	0.051845	C1QTNF6, C1QTNF4, MFRP	226	29	17763	8.131	1	0.647014	53.4314
UP_SEQ_FEATURE	short sequence motif:Prevents secretion from ER	4	1.515	0.052804	LEPRE1, ERP29, SERPINH1, B3GALT1	231	59	16021	4.702	1	0.913499	56.313
KEGG_PATHWAY	mmu04510:Focal adhesion	7	2.652	0.054299	COL4A2, PIK3CB, COL3A1, COL1A2, COL6A1, COL1A1, COL5A1	80	198	5738	2.536	0.997455	0.697216	46.6101
PIR_SUPERFAMILY	PIRSF004274:phage T4 DNA polymerase accessory protein 44	2	0.758	0.05489	RFC5, RFC4	115	4	8136	35.37	0.998979	0.747786	47.7951
SP_PIR_KEY WORDS	iron	9	3.409	0.057866	CYP2D9, TET3, PXDN, CYP4A12A, LEPRE1, CYP1A1, CYP3A11, CYP2C67, CYP2C40, CYP2B10	232	321	17854	2.158	1	0.483386	54.4724
GOTERM_BP_FAT	GO:0009725~response to hormone stimulus	6	2.273	0.060785	HMGB2, LEPR, SERPINA1E, COL1A1, AHSG, TES	175	165	13588	2.823	1	0.944997	63.3584
INTERPRO	IPR001525:C-5 cytosine-specific DNA methylase	2	0.758	0.061756	DNMT3A, DNMT3B	226	5	17763	31.44	1	0.698477	59.952
GOTERM_BP_FAT	GO:0051798~positive regulation of hair follicle development	2	0.758	0.062417	TNF, FST	175	5	13588	31.06	1	0.942822	64.3647
GOTERM_BP_FAT	GO:0006346~methylation-dependent chromatin silencing	2	0.758	0.062417	DNMT3A, DNMT3B	175	5	13588	31.06	1	0.942822	64.3647
GOTERM_BP_FAT	GO:0001957~intramembranous ossification	2	0.758	0.062417	COL1A1, MMP2	175	5	13588	31.06	1	0.942822	64.3647
SMART	SM00110:C1Q	3	1.136	0.062757	C1QTNF6, C1QTNF4, MFRP	130	29	9131	7.266	0.999632	0.627825	52.5849
SP_PIR_KEY WORDS	trimer	2	0.758	0.063046	COL3A1, COL1A2	232	5	17854	30.78	1	0.50032	57.6677

SP_PIR_KEY WORDS	polysaccharide degradation	2	0.758	0.063046	LY2Z, LY21	232	5	17854	30.78	1	0.50032	57.6677
INTERPRO	IPR018111:K Homology, type 1, subgroup	3	1.136	0.06526	EIF4EBP3, KRR1, IGF2BP3	226	33	17763	7.145	1	0.705438	62.0463
GOTERM_BP _FAT	GO:0006281~D NA repair	7	2.652	0.066	DCLRE1C, EPC2, HMGB2, APEX2, EEF1E1, EME1, TDG	175	222	13588	2.448	1	0.945795	66.4834
SP_PIR_KEY WORDS	oxidoreductase	13	4.924	0.068997	CYP2D9, PXDN, CYB5R1, CYP1A1, CYP3A11, HSD17B13, CYP2C67, CYP2C40, ADH7, CYP2B10, TET3, CYP4A12A, LEPRE1, FMO3	232	572	17854	1.749	1	0.519757	61.0827
GOTERM_M F_FAT	GO:0005198~str uctural molecule activity	11	4.167	0.069782	COL4A2, TUBA8, TUBB2A, KRT79, FBN1, ELN, COL3A1, COL1A2, TUBD1, COL1A1, COL5A1	174	450	13288	1.867	1	0.792643	62.786
GOTERM_CC _FAT	GO:0031410~cy toplasmic vesicle	12	4.545	0.070813	TNF, TFRC, NGP, NTF3, CD93, ERP29, DLL1, SLC30A3, GPNMB, DOC2B, WIPI1, TES	165	508	12504	1.79	0.999999	0.615105	60.018
SP_PIR_KEY WORDS	sulfation	3	1.136	0.071361	CXCR4, NID1, COL5A1	232	34	17854	6.79	1	0.519255	62.367
INTERPRO	IPR002482:Pepti doglycan- binding Lysin subgroup	2	0.758	0.073644	LYSMD1, LYSMD4	226	6	17763	26.2	1	0.737096	66.651
INTERPRO	IPR018117:C-5 cytosine-specific DNA methylase, active site	2	0.758	0.073644	DNMT3A, DNMT3B	226	6	17763	26.2	1	0.737096	66.651
INTERPRO	IPR018392:Pepti doglycan- binding lysin domain	2	0.758	0.073644	LYSMD1, LYSMD4	226	6	17763	26.2	1	0.737096	66.651
SP_PIR_KEY WORDS	Cyclosporin	2	0.758	0.075172	PPID, PPIC	232	6	17854	25.65	1	0.525949	64.3554
GOTERM_BP _FAT	GO:0008544~ep idermis development	5	1.894	0.076764	FOXQ1, NTF3, FST, COL1A1, COL5A1	175	125	13588	3.106	1	0.962506	72.1605
GOTERM_M F_FAT	GO:0005506~iro n ion binding	9	3.409	0.079764	CYP2D9, TET3, PXDN, CYP4A12A, LEPRE1, CYP1A1, CYP3A11, CYP2C67, CYP2C40, CYP2B10	174	343	13288	2.004	1	0.817612	67.8873
PIR_SUPERF AMILY	PIRSF001064:lys ozyme c	2	0.758	0.081204	LY2Z, LY21	115	6	8136	23.58	0.999967	0.821303	62.2849
SMART	SM00257:LysM	2	0.758	0.08185	LYSMD1, LYSMD4	130	6	9131	23.41	0.99997	0.68575	62.5888
SP_PIR_KEY WORDS	growth factor	5	1.894	0.082911	NRG4, NTF3, HBEGF, FGF21, GDF15	232	127	17854	3.03	1	0.550288	68.0978
UP_SEQ_FE ATURE	repeat:LysM	2	0.758	0.083117	LYSMD1, LYSMD4	231	6	16021	23.12	1	0.975216	73.4097
KEGG_PATH WAY	mmu03030:DN A replication	3	1.136	0.083192	RFC5, RFC4, MCM6	80	35	5738	6.148	0.999908	0.787529	62.3307
INTERPRO	IPR004129:Glyc erophosphoryl diester phosphodiester ase	2	0.758	0.085382	GPCPD1, GDPD1	226	7	17763	22.46	1	0.777965	72.2297
GOTERM_M F_FAT	GO:0003924~GT Pase activity	5	1.894	0.086014	TUBA8, TUBB2A, TUBD1, AGAP2, ARL4A	174	128	13288	2.983	1	0.824275	70.7426
GOTERM_BP _FAT	GO:0051797~re gulation of hair follicle development	2	0.758	0.086285	TNF, FST	175	7	13588	22.18	1	0.972047	76.4177
GOTERM_BP _FAT	GO:0045684~po sitive regulation of epidermis development	2	0.758	0.086285	TNF, FST	175	7	13588	22.18	1	0.972047	76.4177

GOTERM_BP_FAT	GO:0042634~regulation of hair cycle	2	0.758	0.086285	TNF, FST	175	7	13588	22.18	1	0.972047	76.4177
SP_PIR_KEY_WORDS	phosphoprotein	93	35.23	0.087076	CYP2D9, FHIT, PXDN, MPZL1, 5730508B09RIK, TUBB2A, LEPR, MED23, GPCPD1, STK30, MMP2, EIF4EBP3, FAM83A, HEY1, CD93, CXCR4, TRPV4, FAM181B, AGAP2, FAM83G, SLC43A2, CCDC28B, KRR1, PURG, CYP1A1, ERP29, CCDC138, PIM2, CYP2B10, CDKL5, MCM6, DCLRE1C, TOMM20, HSPB1, RIN1, CD300LF, NEU3, ADAM12, THEM4, GADD45B, CTSF, ING4, HMGB2, TNF, DBNDD2, HSD17B13, SNX8, COL3A1, 2810021B07RIK, ANLN, IGF2BP3, 5830433M19RIK, TAGLN3, AHSG, LY6A, VCAM1, NCAPH, NPAS2, HSPA2, C1QTNF4, NUP210, FMO3, NUDT21, ADRA2A, SLC30A3, EIF3J, UCK2, GPNMB, RUNX1, LYSMD1, TES, AATK, DNMT3A, NASP, FBN1, EME1, TAF7, PHF10, SPARC, WWTR1, TAB3, E130012A19RIK, TUBA8,	232	6311	17854	1.134	1	0.556937	69.9583
INTERPRO	IPR004087:K Homology	3	1.136	0.087237	EIF4EBP3, KRR1, IGF2BP3	226	39	17763	6.046	1	0.774141	73.0272
INTERPRO	IPR001818:Peptidase M10A and M12B, matrixin and adamalysin	3	1.136	0.087237	ADAMTS15, ADAM12, MMP2	226	39	17763	6.046	1	0.774141	73.0272
GOTERM_BP_FAT	GO:0009719~response to endogenous stimulus	6	2.273	0.087798	HMGB2, LEPR, SERPINA1E, COL1A1, AHSG, TES	175	184	13588	2.532	1	0.970321	77.035
UP_SEQ_FEATURE	domain:EGF-like 3; calcium-binding	3	1.136	0.089675	SVEP1, CD93, NID1	231	35	16021	5.945	1	0.977467	76.1697
SP_PIR_KEY_WORDS	notch signaling pathway	3	1.136	0.090437	HEY1, APH1C, DLL1	232	39	17854	5.92	1	0.559804	71.3861
GOTERM_BP_FAT	GO:0007398~ectoderm development	5	1.894	0.091435	FOXQ1, NTF3, FST, COL1A1, COL5A1	175	133	13588	2.919	1	0.971215	78.458
GOTERM_BP_FAT	GO:0001525~angiogenesis	5	1.894	0.091435	EMCN, CXCR4, LEPR, HBEGF, CX3CL1	175	133	13588	2.919	1	0.971215	78.458
UP_SEQ_FEATURE	domain:GDPD glycosylation site:O-linked (Gal...)	2	0.758	0.096284	GPCPD1, GDPD1	231	7	16021	19.82	1	0.979402	78.6783
UP_SEQ_FEATURE	domain:GDPD glycosylation site:O-linked (Gal...)	2	0.758	0.096284	COL3A1, COL1A1	231	7	16021	19.82	1	0.979402	78.6783
INTERPRO	IPR017878:TGF-beta binding	2	0.758	0.096972	FBN1, FST	226	8	17763	19.65	1	0.799911	76.8754
INTERPRO	IPR000974:Glycoside hydrolase, family 22, lysozyme	2	0.758	0.096972	LY22, LY21	226	8	17763	19.65	1	0.799911	76.8754

	IPR012461:Protein of unknown function												
INTERPRO	DUF1669	2	0.758	0.096972	FAM83A, FAM83G	226	8	17763	19.65		1	0.799911	76.8754
SP_PIR_KEY	dna replication	4	1.515	0.097909	RFC5, RFC4, NASP, MCM6	232	85	17854	3.622		1	0.578909	74.338
	IPR006025:Peptidase M, neutral zinc metalloproteinases, zinc-binding site												
INTERPRO		4	1.515	0.098377	AMZ1, ADAMTS15, ADAM12, MMP2	226	87	17763	3.614		1	0.794541	77.3865
	m_eea1Pathway: The role of FYVE-finger proteins in vesicle transport												
BIOCARTA		2	0.758	0.098401	TFRC, 4921523A10RIK	21	6	1171	18.59	0.996278	0.996278	63.7516	
UP_SEQ_FEATURE	domain:EGF-like 6	3	1.136	0.098555	FBN1, DLL1, NID1	231	37	16021	5.623		1	0.977395	79.4817
SP_PIR_KEY	sulfoprotein	2	0.758	0.098957	COL3A1, NID1	232	8	17854	19.24		1	0.572132	74.7289
SP_PIR_KEY	blocked carboxyl end	2	0.758	0.098957	LY6A, VCAM1	232	8	17854	19.24		1	0.572132	74.7289
	GO:0008889~glycerophosphodiesterase activity												
GOTERM_MF_FAT		2	0.758	0.099555	GPCPD1, GDPD1	174	8	13288	19.09		1	0.853496	76.141

Supplementary Table 5.

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Ingenuity Canonical Pathways	-log(p-value)	Ratio	Overlap	Molecules
Atherosclerosis Signaling	5.98E00	8.06E-02	10/124	COL1A2,COL1A1,LYZ,VCAM1,CXCR4,IL1RN,SERPINA1,CCR2,TNF,CO L3A1
Estrogen Biosynthesis	4.32E00	1.35E-01	5/37	CYP1A1,HSD17B13,Cyp2c40 (includes others),CYP3A5,CYP2B6
Nicotine Degradation II	4.2E00	9.52E-02	6/63	FMO3,ADH7,CYP1A1,Cyp2c40 (includes others),CYP3A5,CYP2B6
Hepatic Fibrosis / Hepatic Stellate Cell Activation	4.19E00	5.05E-02	10/198	COL5A1,COL1A2,COL1A1,VCAM1,COL6A1,LEPR,MMP2,COL4A2,TNF, COL3A1
Bupropion Degradation	3.84E00	1.6E-01	4/25	CYP1A1,Cyp2c40 (includes others),CYP3A5,CYP2B6
Acetone Degradation I (to Methylglyoxal)	3.77E00	1.54E-01	4/26	CYP1A1,Cyp2c40 (includes others),CYP3A5,CYP2B6
Nicotine Degradation III	3.53E00	9.26E-02	5/54	ADH7,CYP1A1,Cyp2c40 (includes others),CYP3A5,CYP2B6
Melatonin Degradation I	3.42E00	8.77E-02	5/57	CYP1A1,Cyp2c40 (includes others),CYP3A5,CYP2B6,Sult1d1
Superpathway of Melatonin Degradation	3.25E00	8.06E-02	5/62	CYP1A1,Cyp2c40 (includes others),CYP3A5,CYP2B6,Sult1d1
Granulocyte Adhesion and Diapedesis	3.14E00	4.52E-02	8/177	VCAM1,CXCR4,IL1RN,PF4,MMP2,CX3CL1,TNF,HSPB1
Dendritic Cell Maturation	3.11E00	4.47E-02	8/179	COL1A2,COL1A1,IL1RN,LEPR,TREM2,PIK3CB,TNF,COL3A1
Granzyme A Signaling	2.9E00	1.5E-01	3/20	GZMA,H1FX,HMGB2
Role of BRCA1 in DNA Damage Response	2.79E00	6.41E-02	5/78	RFC4,CDKN1A,PLK1,RFC5,PHF10
Hereditary Breast Cancer Signaling	2.54E00	4.65E-02	6/129	GADD45B,RFC4,CDKN1A,PIK3CB,RFC5,PHF10
Role of CHK Proteins in Cell Cycle Checkpoint	2.52E00	7.27E-02	4/55	RFC4,CDKN1A,PLK1,RFC5
Airway Pathology in Chronic Obstructive Pulmonary	2.5E00	2.5E-01	2/8	MMP2,TNF
Intrinsic Prothrombin Activation Pathway	2.42E00	1.03E-01	3/29	COL1A2,COL1A1,COL3A1
Agranulocyte Adhesion and Diapedesis	2.33E00	3.7E-02	7/189	VCAM1,CXCR4,IL1RN,PF4,MMP2,CX3CL1,TNF
IL-6 Signaling	2.06E00	4.31E-02	5/116	COL1A1,IL1RN,PIK3CB,TNF,HSPB1
LPS/IL-1 Mediated Inhibition of RXR Function	1.99E00	3.2E-02	7/219	FMO3,IL1RN,CYP3A5,FABP7,CYP2B6,Sult1d1,TNF
LXR/RXR Activation	1.98E00	4.13E-02		LYZ,IL1RN,AHSG,SERPINA1,TNF
Glucocorticoid Receptor Signaling	1.97E00	2.91E-02		VCAM1,IL1RN,CDKN1A,PIK3CB,TAF7,TNF,HSPA2,PHF10
Mismatch Repair in MSP-RON Signaling	1.89E00	1.25E-01		RFC4,RFC5
Bladder Cancer Signaling	1.86E00	6.52E-02		PIK3CB,CCR2,TNF
GADD45 Signaling	1.82E00	4.6E-02		FGF21,CDKN1A,MMP2,RASSF1
DNA Methylation and Transcriptional Repression Signaling	1.75E00	1.05E-01		GADD45B,CDKN1A
Taurine Biosynthesis	1.71E00	1E-01		DNMT3B,DNMT3A
Dermatan Sulfate	1.66E00	5E-01		CSAD
Xenobiotic Metabolism Signaling	1.62E00	5.26E-02		B3GALT6,DSEL,Sult1d1
Trehalose Degradation II (Trehalase)	1.54E00	2.58E-02		FMO3,CYP1A1,CYP3A5,PIK3CB,CYP2B6,Sult1d1,TNF
L-serine Degradation	1.49E00	3.33E-01		TREH
Non-Small Cell Lung Cancer Signaling	1.49E00	3.33E-01		SDSL
IL-15 Signaling	1.47E00	4.62E-02		FHIT,PIK3CB,RASSF1
PXR/RXR Activation	1.45E00	4.55E-02		VCAM1,PIK3CB,TNF
Acute Phase Response Signaling	1.44E00	4.48E-02		CYP3A5,CYP2B6,TNF
14-3-3-mediated Signaling	1.42E00	2.96E-02		IL1RN,AHSG,SERPINA1,PIK3CB,TNF
Airway Inflammation in PI3K/AKT Signaling	1.41E00	3.42E-02		TUBA8,TUBB2A,PIK3CB,TNF
	1.37E00	2.5E-01		TNF
	1.34E00	3.25E-02		GDF15,CDKN1A,PIK3CB,THEM4

HER-2 Signaling in Breast Cancer	1.3E00	3.95E-02	CDKN1A,MMP2,PIK3CB
FXR/RXR Activation	1.3E00	3.15E-02	IL1RN,AHSG,SERPINA1,TNF
Acute Myeloid Leukemia Signaling	1.29E00	3.9E-02	RUNX1,PIK3CB,PIM2
Clathrin-mediated Endocytosis Signaling	1.28E00	2.7E-02	FGF21,LYZ,TFRC,SERPINA1,PIK3CB
IL-9 Signaling	1.28E00	5.88E-02	PIK3CB,TNF
CMP-N-acetylneuraminate Biosynthesis I (Eukaryotes)	1.27E00	2E-01	NANP
Ceramide Signaling	1.25E00	3.75E-02	PIK3CB,CERK,TNF
IL-12 Signaling and Production in Macrophages	1.22E00	2.96E-02	LYZ,SERPINA1,PIK3CB,TNF
UDP-N-acetyl-D-glucosamine Biosynthesis II	1.2E00	1.67E-01	FMO3
Notch Signaling	1.19E00	5.26E-02	DLL1,HEY1
Aryl Hydrocarbon Receptor Signaling	1.18E00	2.86E-02	CYP1A1,CDKN1A,TNF,HSPB1
Inhibition of Matrix Metalloproteases	1.17E00	5.13E-02	ADAM12,MMP2
ErbB Signaling	1.17E00	3.49E-02	NRG4,HBEGF,PIK3CB
Glycoaminoglycan-protein Linkage Region	1.13E00	1.43E-01	B3GALT6
Melanoma Signaling	1.12E00	4.76E-02	CDKN1A,PIK3CB
Death Receptor Signaling	1.1E00	3.26E-02	PARP16,TNF,HSPB1
Dermatan Sulfate Biosynthesis (Late Stages)	1.08E00	4.55E-02	DSEL,Sult1d1
Role of Hypercytokinemia/hyperchemokine in the Pathogenesis of Influenza	1.07E00	4.44E-02	IL1RN,TNF
p53 Signaling	1.04E00	3.06E-02	GADD45B,CDKN1A,PIK3CB
Telomerase Signaling	1.03E00	3.03E-02	CDKN1A,PIK3CB,POT1
Graft-versus-Host Disease Signaling	1.02E00	4.17E-02	IL1RN,TNF
Germ Cell-Sertoli Cell Junction Signaling	1.01E00	2.5E-02	TUBA8,TUBB2A,PIK3CB,TNF
Cell Cycle: G2/M DNA Damage Checkpoint	1E00	4.08E-02	CDKN1A,PLK1
Glycine Betaine	9.85E-01	1E-01	SDSL
Pancreatic Adenocarcinoma Signaling	9.63E-01	2.83E-02	CDKN1A,HBEGF,PIK3CB
Lymphotoxin β Receptor Signaling	9.33E-01	3.7E-02	VCAM1,PIK3CB
Chondroitin Sulfate Biosynthesis	9.33E-01	3.7E-02	B3GALT6,Sult1d1
NF- κ B Signaling	9.2E-01	2.31E-02	IL1RN,PIK3CB,TNF,TAB3
Cleavage and Polyadenylation of Pre-Acyl-CoA Hydrolysis	9.1E-01	8.33E-02	NUDT21
Role of Cytokines in Mediating Communication between Immune Cells	9.07E-01	3.57E-02	IL1RN,TNF
Glioma Invasiveness	8.94E-01	3.51E-02	MMP2,PIK3CB
ErbB2-ErbB3 Signaling	8.94E-01	3.51E-02	NRG4,PIK3CB
Heparan Sulfate	8.94E-01	3.51E-02	B3GALT6,Sult1d1
Production of Nitric Oxide and Reactive Oxygen Species in Macrophages	8.75E-01	2.22E-02	LYZ,SERPINA1,PIK3CB,TNF
ATM Signaling	8.7E-01	3.39E-02	GADD45B,CDKN1A
p38 MAPK Signaling	8.69E-01	2.56E-02	IL1RN,TNF,HSPB1
PTEN Signaling	8.61E-01	2.54E-02	CDKN1A,PREX2,PIK3CB
Induction of Apoptosis by ErbB4 Signaling	8.58E-01	3.33E-02	CXCR4,TNF
IL-8 Signaling	8.5E-01	2.17E-02	VCAM1,HBEGF,MMP2,PIK3CB

DNA Double-Strand Break Repair by Non-Homologous End Joining	8.48E-01	7.14E-02		DCLRE1C
HMGB1 Signaling	8.46E-01	2.5E-02		VCAM1,PIK3CB,TNF
Estrogen-Dependent Breast Cancer Signaling	8.35E-01	3.23E-02		HSD17B13,PIK3CB
GM-CSF Signaling	8.35E-01	3.23E-02		RUNX1,PIK3CB
Antiproliferative Role of Somatostatin Receptor 2	8.24E-01	3.17E-02		CDKN1A,PIK3CB
Telomere Extension by Telomerase	8.2E-01	6.67E-02		POT1
RAR Activation	8.15E-01	2.11E-02		ADH7,PNRC1,PIK3CB,PHF10
Serotonin Degradation	8.13E-01	3.12E-02		ADH7,Sult1d1
Breast Cancer Regulation by Stathmin1	8.09E-01	2.09E-02		TUBA8,CDKN1A,TUBB2A,PIK3CB
Role of Pattern Recognition Receptors in Recognition of Bacteria and Viruses	7.94E-01	2.36E-02		CASP1,PIK3CB,TNF
Neurotrophin/TRK Signaling	7.82E-01	2.99E-02		NTF3,PIK3CB
IL-10 Signaling	7.72E-01	2.94E-02		IL1RN,TNF
Remodeling of Epithelial Adherens Junctions	7.72E-01	2.94E-02		TUBA8,TUBB2A
Leukocyte Extravasation Signaling	7.7E-01	2.02E-02		VCAM1,CXCR4,MMP2,PIK3CB
Agrin Interactions at Neuromuscular Junction	7.62E-01	2.9E-02		GABPB1,NRG4
Differential Regulation of Cytokine Production in Macrophages and T Helper Cells by IL-17A and IL-17F	7.48E-01	5.56E-02		TNF
Small Cell Lung Cancer Signaling	7.43E-01	2.82E-02		FHIT,PIK3CB
JAK/Stat Signaling	7.34E-01	2.78E-02		CDKN1A,PIK3CB
Leptin Signaling in Obesity	7.16E-01	2.7E-02		LEPR,PIK3CB
Toll-like Receptor Signaling	7.16E-01	2.7E-02		IL1RN,TNF
Axonal Guidance Signaling	7.13E-01	1.62E-02		NTF3,TUBA8,ADAM12,CXCR4,TUBB2A,MMP2,PIK3CB
TREM1 Signaling	7.07E-01	2.67E-02		CASP1,TNF
Epithelial Adherens Junction Signaling	6.73E-01	2.05E-02		DLL1,TUBA8,TUBB2A
Role of Osteoblasts, Osteoclasts and Chondrocytes in	6.65E-01	1.83E-02		COL1A1,IL1RN,PIK3CB,TNF
AMPK Signaling	6.61E-01	2.03E-02		ADRA2A,PIK3CB,PHF10
Systemic Lupus Erythematosus Signaling	6.61E-01	1.82E-02		IL1RN,PIK3CB,TNF,PIM2
Differential Regulation of Cytokine Production in Intestinal Epithelial Cells by IL-17A and IL-17F	6.53E-01	4.35E-02		TNF
Prostate Cancer Signaling	6.49E-01	2.44E-02		CDKN1A,PIK3CB
Aldosterone Signaling in Epithelial Cells	6.39E-01	1.97E-02		PIK3CB,HSPA2,HSPB1
Estrogen-mediated S-phase Entry	6.36E-01	4.17E-02		CDKN1A
Dopamine Degradation	6.36E-01	4.17E-02		Sult1d1
FGF Signaling	6.27E-01	2.35E-02		FGF21,PIK3CB
Gap Junction Signaling	6.23E-01	1.94E-02		TUBA8,TUBB2A,PIK3CB
IL-17A Signaling in Gastric Cells	6.21E-01	4E-02		TNF
HIPPO signaling	6.19E-01	2.33E-02		WWTR1,RASSF1
Neuregulin Signaling	6.05E-01	2.27E-02		NRG4,HBEGF
Altered T Cell and B Cell Signaling in Rheumatoid Arthritis	6.05E-01	2.27E-02		IL1RN,TNF
UVA-Induced MAPK	6.05E-01	2.27E-02		PARP16,PIK3CB
Virus Entry via Endocytic Pathways	5.98E-01	2.25E-02		TFRC,PIK3CB

Crosstalk between Dendritic Cells and Natural Killer	5.98E-01	2.25E-02		TREM2,TNF
PAK Signaling	5.98E-01	2.25E-02		PIK3CB,TNF
Cell Cycle Control of Chromosomal Replication	5.92E-01	3.7E-02		MCM6
Communication between Innate and Adaptive	5.84E-01	2.2E-02		IL1RN,TNF
Chronic Myeloid Leukemia Signaling	5.71E-01	2.15E-02		CDKN1A,PIK3CB
Salvage Pathways of Pyrimidine Ribonucleotides	5.71E-01	2.15E-02		PLK1,UCK2
TNFR2 Signaling	5.66E-01	3.45E-02		TNF
PPAR Signaling	5.65E-01	2.13E-02		IL1RN,TNF
Glioma Signaling	5.58E-01	2.11E-02		CDKN1A,PIK3CB
Role of p14/p19ARF in Tumor Suppression	5.53E-01	3.33E-02		PIK3CB
IGF-1 Signaling	5.46E-01	2.06E-02		PIK3CB,IGFBP2
Amyotrophic Lateral Sclerosis Signaling	5.4E-01	2.04E-02		CASP1,PIK3CB
Cholecystokinin/Gastrin-mediated Signaling	5.22E-01	1.98E-02		IL1RN,TNF
Retinoate Biosynthesis I	5.18E-01	3.03E-02		ADH7
Ethanol Degradation II	5.18E-01	3.03E-02		ADH7
HIF1 α Signaling	5.16E-01	1.96E-02		MMP2,PIK3CB
Sertoli Cell-Sertoli Cell Junction Signaling	5.15E-01	1.69E-02		TUBA8,TUBB2A,TNF
HGF Signaling	4.99E-01	1.9E-02		CDKN1A,PIK3CB
Coagulation System	4.97E-01	2.86E-02		SERPINA1
Thyroid Hormone Metabolism II (via Conjugation and/or	4.97E-01	2.86E-02		Sult1d1
Stearate Biosynthesis I (Animals)	4.97E-01	2.86E-02		THEM4
Noradrenaline and Adrenaline Degradation	4.97E-01	2.86E-02		ADH7
Regulation of the Epithelial-Mesenchymal Transition Pathway	4.9E-01	1.63E-02		FGF21,MMP2,PIK3CB
autophagy	4.87E-01	2.78E-02		WIP1
ERK/MAPK Signaling	4.78E-01	1.6E-02		LAMTOR3,PIK3CB,HSPB1
Fc Epsilon RI Signaling	4.78E-01	1.83E-02		PIK3CB,TNF
Renin-Angiotensin	4.78E-01	1.83E-02		PIK3CB,TNF
Sphingosine-1-phosphate Signaling	4.78E-01	1.83E-02		CASP1,PIK3CB
Role of Tissue Factor in Docosahexaenoic Acid (DHA) Signaling	4.73E-01	1.82E-02		HBEGF,PIK3CB
Role of PKR in Interferon Induction and Antiviral Response	4.5E-01	2.5E-02		TNF
Thyroid Cancer Signaling	4.5E-01	2.5E-02		NTF3
Fc γ RIIB Signaling in B Lymphocytes	4.42E-01	2.44E-02		PIK3CB
Type II Diabetes Mellitus Signaling	4.39E-01	1.71E-02		PIK3CB,TNF
phagosome maturation	4.25E-01	1.67E-02		TUBA8,TUBB2A
Chondroitin Sulfate Biosynthesis (Late Stages)	4.03E-01	2.17E-02		Sult1d1
Adipogenesis pathway	3.95E-01	1.57E-02		CTNNBIP1,TNF
Estrogen Receptor	3.95E-01	1.57E-02		MED23,TAF7
Role of Macrophages, Fibroblasts and Endothelial Cells in Rheumatoid	3.9E-01	1.34E-02		VCAM1,IL1RN,PIK3CB,TNF
Ephrin A Signaling	3.89E-01	2.08E-02		PIK3CB
TNFR1 Signaling	3.82E-01	2.04E-02		TNF
Ovarian Cancer Signaling	3.79E-01	1.53E-02		MMP2,PIK3CB

Assembly of RNA Polymerase II Complex	3.75E-01	2E-02		TAF7
Heparan Sulfate Biosynthesis (Late Stages)	3.75E-01	2E-02		Sult1d1
Human Embryonic Stem Cell Pluripotency	3.67E-01	1.49E-02		NTF3,PIK3CB
CNTF Signaling	3.62E-01	1.92E-02		PIK3CB
Endometrial Cancer	3.62E-01	1.92E-02		PIK3CB
Primary Immunodeficiency Signaling	3.62E-01	1.92E-02		DCLRE1C
Cardiac Hypertrophy	3.58E-01	1.35E-02		ADRA2A,PIK3CB,HSPB1
UVB-Induced MAPK	3.56E-01	1.89E-02		PIK3CB
IL-2 Signaling	3.56E-01	1.89E-02		PIK3CB
Phototransduction Pathway	3.56E-01	1.89E-02		SAG
Role of IL-17A in Arthritis	3.5E-01	1.85E-02		PIK3CB
Unfolded protein response	3.5E-01	1.85E-02		HSPA2
Thrombopoietin Signaling	3.44E-01	1.82E-02		PIK3CB
Huntington's Disease	3.39E-01	1.3E-02		CASP1,PIK3CB,HSPA2
EGF Signaling	3.39E-01	1.79E-02		PIK3CB
eNOS Signaling	3.39E-01	1.41E-02		PIK3CB,HSPA2
Myc Mediated Apoptosis Signaling	3.28E-01	1.72E-02		PIK3CB
Regulation of eIF4 and p70S6K Signaling	3.25E-01	1.37E-02		EIF4EBP3,PIK3CB
Glioblastoma Multiforme Signaling	3.25E-01	1.37E-02		CDKN1A,PIK3CB
Colorectal Cancer Metastasis Signaling	3.23E-01	1.27E-02		MMP2,PIK3CB,TNF
CXCR4 Signaling	3.06E-01	1.32E-02		CXCR4,PIK3CB
Role of JAK1 and JAK3 in γ c Cytokine Signaling	3.02E-01	1.59E-02		PIK3CB
PCP pathway	3.02E-01	1.59E-02		HSPB1
Activation of IRF by Cytosolic Pattern	2.98E-01	1.56E-02		TNF
Retinoic acid Mediated Apoptosis Signaling	2.98E-01	1.56E-02		PARP16
IL-17A Signaling in Airway	2.98E-01	1.56E-02		PIK3CB
Pyridoxal 5'-phosphate Salvage Pathway	2.98E-01	1.56E-02		PLK1
Cell Cycle: G1/S Checkpoint Regulation	2.98E-01	1.56E-02		CDKN1A
3-phosphoinositide Biosynthesis	2.94E-01	1.28E-02		PIK3CB,STYXL1
CD40 Signaling	2.93E-01	1.54E-02		PIK3CB
Tec Kinase Signaling	2.89E-01	1.27E-02		PIK3CB,TNF
Angiopoietin Signaling	2.88E-01	1.52E-02		PIK3CB
Mitotic Roles of Polo-Like Kinase	2.88E-01	1.52E-02		PLK1
Role of PI3K/AKT Signaling in the Pathogenesis of	2.88E-01	1.52E-02		PIK3CB
Erythropoietin Signaling	2.84E-01	1.49E-02		PIK3CB
GDNF Family Ligand-Receptor Interactions	2.8E-01	1.47E-02		PIK3CB
Macropinocytosis Signaling	2.8E-01	1.47E-02		PIK3CB
Hepatic Cholestasis	2.77E-01	1.23E-02		IL1RN,TNF
G-Protein Coupled Receptor Signaling	2.77E-01	1.17E-02		LAMTOR3,ADRA2A,PIK3CB
Growth Hormone Signaling	2.75E-01	1.45E-02		PIK3CB
Role of MAPK Signaling in the Pathogenesis of	2.75E-01	1.45E-02		TNF
IL-3 Signaling	2.67E-01	1.41E-02		PIK3CB
T Helper Cell Differentiation	2.67E-01	1.41E-02		TNF
Renal Cell Carcinoma	2.67E-01	1.41E-02		PIK3CB
PEDF Signaling	2.67E-01	1.41E-02		PIK3CB
Chemokine Signaling	2.67E-01	1.41E-02		CXCR4
Tight Junction Signaling	2.64E-01	1.2E-02		NUDT21,TNF
IL-17 Signaling	2.63E-01	1.39E-02		PIK3CB

LPS-stimulated MAPK Signaling	2.59E-01	1.37E-02		PIK3CB
NF- κ B Activation by Viruses	2.59E-01	1.37E-02		PIK3CB
Prolactin Signaling	2.59E-01	1.37E-02		PIK3CB
Ephrin B Signaling	2.59E-01	1.37E-02		CXCR4
STAT3 Pathway	2.59E-01	1.37E-02		CDKN1A
FLT3 Signaling in Hematopoietic Progenitor	2.55E-01	1.35E-02		PIK3CB
Endothelin-1 Signaling	2.52E-01	1.16E-02		CASP1,PIK3CB
Molecular Mechanisms of Cancer	2.49E-01	1.1E-02		LAMTOR3,CDKN1A,PIK3CB,Aph1c
VEGF Family Ligand-Receptor Interactions	2.48E-01	1.32E-02		PIK3CB
IL-4 Signaling	2.48E-01	1.32E-02		PIK3CB
BMP signaling pathway	2.48E-01	1.32E-02		FST
PDGF Signaling	2.44E-01	1.3E-02		PIK3CB
VDR/RXR Activation	2.41E-01	1.28E-02		CDKN1A
Cyclins and Cell Cycle Regulation	2.41E-01	1.28E-02		CDKN1A
Reelin Signaling in Neurons	2.37E-01	1.27E-02		PIK3CB
PPAR α /RXR α Activation	2.35E-01	1.12E-02		MED23,Cyp2c40 (includes others)
NRF2-mediated Oxidative Stress Response	2.33E-01	1.11E-02		ERP29,PIK3CB
Melanocyte Development and Pigmentation Signaling	2.21E-01	1.19E-02		PIK3CB
TR/RXR Activation	2.18E-01	1.18E-02		PIK3CB
Allograft Rejection Signaling	2.14E-01	1.16E-02		TNF
α -Adrenergic Signaling	2.11E-01	1.15E-02		ADRA2A
FAK Signaling	2.11E-01	1.15E-02		PIK3CB
TGF- β Signaling	2.11E-01	1.15E-02		TGIF1
CTLA4 Signaling in Cytotoxic T Lymphocytes	2.08E-01	1.14E-02		PIK3CB
G Beta Gamma Signaling	2.08E-01	1.14E-02		HBEGF
RANK Signaling in Apoptosis Signaling	2.08E-01	1.14E-02		PIK3CB
	2.06E-01	1.12E-02		TNF