

**Table S1.** The differential expression analysis result in *Uxt*-knockdown MEFs after stimulation of cGAMP

Gene ID	logFC	FDR
Rsad2 ENSMUSG00000020641	0.6730279	2.38E-17
Cmpk2 ENSMUSG00000020638	0.5783732	9.13E-12
Cxcl10 ENSMUSG00000034855	0.5618499	6.69E-11
Oas1 ENSMUSG00000041827	0.5079247	5.90E-09
Mx1 ENSMUSG00000000386	0.5140607	9.22E-09
mt-Nd4 ENSMUSG00000064363	-0.5003248	1.56E-08
Apol6 ENSMUSG00000033576	0.7578279	3.99E-08
Ch25h ENSMUSG00000050370	0.632045	3.30E-07
Nos2 ENSMUSG00000020826	0.5448097	3.72E-07
Tlr2 ENSMUSG00000027995	0.5446634	9.55E-07
Znfx1 ENSMUSG00000039501	0.4748599	9.55E-07
Irgm2 ENSMUSG00000069874	0.480864	1.06E-06
Csrnp1 ENSMUSG00000032515	0.5597521	1.28E-06
Usp47 ENSMUSG00000059263	-0.5069369	1.28E-06
mt-Nd6 ENSMUSG00000064368	-0.5188709	5.21E-06
Timm23 ENSMUSG00000013701	0.45318	5.21E-06
mt-Nd5 ENSMUSG00000064367	-0.4315757	5.21E-06
mt-Cytb ENSMUSG00000064370	-0.4489999	6.36E-06
Hopx ENSMUSG00000059325	0.9083043	6.36E-06
Oas3 ENSMUSG00000032661	0.5054328	6.73E-06
Irf1 ENSMUSG00000018899	0.432272	8.29E-06
Tnn ENSMUSG00000026725	0.8929707	1.19E-05
Zfp266 ENSMUSG00000060510	-0.5990587	1.98E-05
mt-Nd2 ENSMUSG00000064345	-0.4509537	1.98E-05
Ifit2 ENSMUSG00000045932	0.4011	2.05E-05
Fhod3 ENSMUSG00000034295	0.6391306	3.08E-05
Ccl5 ENSMUSG00000035042	0.516266	3.20E-05
Kiz ENSMUSG00000074749	-0.8832692	3.20E-05
Ncl ENSMUSG00000026234	-0.415574	3.51E-05
Osbp19 ENSMUSG00000028559	-0.5133819	3.51E-05
Gbp5 ENSMUSG00000105504	0.704788	3.51E-05
Hp ENSMUSG00000031722	0.8354823	3.90E-05
Fxr1 ENSMUSG00000027680	-0.4597889	7.51E-05
Smc1a ENSMUSG00000041133	-0.3696076	7.59E-05
Nlrc5 ENSMUSG00000074151	0.3876682	0.0001153
Col7a1 ENSMUSG00000025650	-0.3938903	0.0001171
Ppp1cb ENSMUSG00000014956	-0.3682728	0.0001171
Ska2 ENSMUSG00000020492	-0.5039991	0.0001181
Pja2 ENSMUSG00000024083	-0.5096709	0.0001221
Amd1 ENSMUSG00000075232	-0.4554304	0.0001693
Kif11 ENSMUSG00000012443	-0.4457671	0.0001767
mt-Nd1 ENSMUSG00000064341	-0.3973335	0.0001937
Hap1 ENSMUSG00000006930	0.3592015	0.0001937
Fam111a ENSMUSG00000024691	-0.4113654	0.000207
Npm1 ENSMUSG00000057113	-0.3701386	0.000207
Sectm1a ENSMUSG00000025165	1.6207134	0.0002086
Lars2 ENSMUSG00000035202	-1.1258464	0.0002108
Vps35 ENSMUSG00000031696	-0.4037668	0.0002268
Nmd3 ENSMUSG00000027787	-0.4025289	0.0002268
Tfrc ENSMUSG00000022797	-0.3657135	0.0002268
Apobec3 ENSMUSG00000009585	0.3544174	0.0002525
Asnsd1 ENSMUSG00000026095	-1.547931	0.0002643

Cd74 ENSMUSG00000024610	0.4583566	0.0003306
Tnfaip2 ENSMUSG00000021281	0.3468792	0.0003691
Tgtp2 ENSMUSG00000078921	0.9855197	0.0004393
Loxl3 ENSMUSG00000000693	0.3582136	0.0004773
Xpo1 ENSMUSG00000020290	-0.3623918	0.0004959
Mafk ENSMUSG00000018143	0.3776032	0.0005184
Bhlhe40 ENSMUSG00000030103	0.3890213	0.0005564
Lims1 ENSMUSG00000019920	-0.3590578	0.0005564
Ipo7 ENSMUSG00000066232	-0.3790798	0.0005903
Dnttip2 ENSMUSG00000039756	-0.4614134	0.0006379
Hipk2 ENSMUSG00000061436	0.4647416	0.0006686
Cd24a ENSMUSG00000047139	-0.4081612	0.0007633
B230118H07Rik ENSMUSG00000000000	-0.9277882	0.0008271
Ddx3x ENSMUSG00000000787	-0.3631721	0.0008636
Saa3 ENSMUSG00000040026	0.4692825	0.0009325
Mark1 ENSMUSG00000026620	0.4557562	0.0009629
Top2b ENSMUSG00000017485	-0.412783	0.0009753
Anxa1 ENSMUSG00000024659	-0.3304244	0.0009753
Tapbp1 ENSMUSG00000038213	0.4181908	0.0009753
Tfpi ENSMUSG00000027082	-0.562267	0.0010169
Samhd1 ENSMUSG00000027639	0.3267952	0.0010339
Heatr9 ENSMUSG00000018925	2.3812053	0.0010668
Mbn1 ENSMUSG00000027763	-0.332677	0.0010956
Dnmt3a ENSMUSG00000020661	0.4081713	0.0011216
Gbp2 ENSMUSG00000028270	0.3154349	0.0013153
Daxx ENSMUSG00000002307	0.3173334	0.0013383
Eloc ENSMUSG00000079658	-0.407074	0.001529
Gch1 ENSMUSG00000037580	0.5979271	0.0015601
Nod1 ENSMUSG00000038058	0.473581	0.0015612
Hdac2 ENSMUSG00000019777	-0.316422	0.0015866
Taf1d ENSMUSG00000031939	-0.4163004	0.0016063
Clk4 ENSMUSG00000020385	-0.6036117	0.0016408
Eif2a ENSMUSG00000027810	-0.3996707	0.0017288
Nudcd1 ENSMUSG00000038736	-0.5232754	0.0017475
Skiv2l2 ENSMUSG00000016018	-0.3463295	0.0017762
Psmc6 ENSMUSG00000021832	-0.396397	0.0018673
Hsp90b1 ENSMUSG00000020048	-0.3169002	0.0018673
Abce1 ENSMUSG00000058355	-0.3116134	0.0018836
Cetn3 ENSMUSG00000021537	-0.4865752	0.0019083
Htra2 ENSMUSG00000068329	0.3169	0.0019237
Inhba ENSMUSG00000041324	-0.4077129	0.0020066
Tap1 ENSMUSG00000037321	0.30695	0.002047
Sema3e ENSMUSG00000063531	-0.5157541	0.0020792
Atp2b1 ENSMUSG00000019943	-0.3673304	0.0020914
Spsb1 ENSMUSG00000039911	0.3555599	0.0021001
Oas2 ENSMUSG00000029561	0.3067002	0.0021001
Lipg ENSMUSG00000053846	0.5661756	0.0021312
Cav2 ENSMUSG00000000058	-0.4651038	0.0021466
Ahnak ENSMUSG00000069833	-0.3849575	0.0021834
Bclaf1 ENSMUSG00000037608	-0.3734828	0.0023263
Ttc39c ENSMUSG00000024424	0.3827538	0.0023263
Il15ra ENSMUSG00000023206	0.4669069	0.0023431
Hnrnp1 ENSMUSG00000007850	-0.3260579	0.0023586

Asap3 ENSMUSG00000036995	0.4596342	0.0024079
Top2a ENSMUSG00000020914	-0.3423176	0.0024079
Plekha2 ENSMUSG00000031557	0.3308454	0.0024079
Rfc1 ENSMUSG00000029191	-0.3769817	0.002544
Frmd5 ENSMUSG00000027238	0.7297107	0.002544
Supt16 ENSMUSG00000035726	-0.3385173	0.002544
Nae1 ENSMUSG00000031878	-0.4417379	0.0025533
Prss23 ENSMUSG00000039405	-0.3439603	0.0025802
Zcchc7 ENSMUSG00000035649	-0.5168278	0.002586
Gtpbp8 ENSMUSG00000022668	-0.4908412	0.002586
Cd274 ENSMUSG00000016496	0.6369068	0.0030625
Ipo11 ENSMUSG00000042590	-0.4464148	0.0030625
Pik3r3 ENSMUSG00000028698	-0.6287934	0.0030625
Wispr2 ENSMUSG00000027656	-0.3038891	0.0030694
Khyn1 ENSMUSG00000047153	0.3553573	0.0031627
Spc25 ENSMUSG00000005233	-0.4989027	0.003324
Msh3 ENSMUSG00000014850	-0.5680284	0.0035553
Xdh ENSMUSG00000024066	0.5186788	0.0035887
Csde1 ENSMUSG00000068823	-0.3263843	0.003674
Helz2 ENSMUSG00000027580	0.3473295	0.003674
Eif4a2 ENSMUSG00000022884	-0.3177786	0.0037036
Nusap1 ENSMUSG00000027306	-0.3948343	0.0038367
Trim14 ENSMUSG00000039853	0.4541083	0.0039619
Dhx9 ENSMUSG00000042699	-0.3294928	0.0039733
Gfra1 ENSMUSG00000025089	0.419489	0.0041029
Pnrc1 ENSMUSG00000040128	0.3171535	0.0041109
Slc6a9 ENSMUSG00000028542	0.4138479	0.0041109
C1d ENSMUSG00000000581	-0.4448269	0.0041109
Kif4 ENSMUSG00000034311	-0.3801673	0.0041109
Gm6563 ENSMUSG00000051255	-0.4835203	0.0041109
Mxd1 ENSMUSG00000001156	0.4174202	0.0041109
Eif1a ENSMUSG00000057561	-0.2909142	0.0041333
Dok1 ENSMUSG00000068335	0.3084496	0.0042652
H2-Q4 ENSMUSG00000035929	0.2936817	0.004307
Pum3 ENSMUSG00000041360	-0.3036267	0.0045867
Nek7 ENSMUSG00000026393	-0.3780042	0.0045867
Iqgap2 ENSMUSG00000021676	0.7007214	0.0045867
Gm10800 ENSMUSG0000007501	-2.4164627	0.0045867
Ivns1abp ENSMUSG00000023150	-0.3303144	0.0045867
Serpina3g ENSMUSG0000004148	0.6391741	0.0045867
Ugp2 ENSMUSG00000001891	-0.4160916	0.0045867
Myd88 ENSMUSG00000032508	0.3053108	0.0046197
Smarca5 ENSMUSG00000031715	-0.3113483	0.0046692
Steap4 ENSMUSG00000012428	0.3244451	0.0046692
R3hcc11 ENSMUSG00000025184	-0.5221997	0.00477
Impad1 ENSMUSG00000066324	-0.3207949	0.0048551
Kalrn ENSMUSG00000061751	0.3707571	0.0050279
Tax1bp1 ENSMUSG00000004535	-0.3849909	0.0050279
Fhl4 ENSMUSG00000050035	2.0667907	0.0050411
Srsf3 ENSMUSG00000071172	-0.2918706	0.005115
Zbp1 ENSMUSG00000027514	0.3080902	0.0051416
Ogt ENSMUSG00000034160	-0.348584	0.0051492
Sod2 ENSMUSG00000006818	0.2875368	0.0054191

Tgs1 ENSMUSG00000028233	-0.4642326	0.0054191
Eif2s2 ENSMUSG00000074656	-0.3069283	0.0061085
Rbm12b2 ENSMUSG0000005213	-0.6957068	0.006373
Slc30a4 ENSMUSG00000005802	-0.4315145	0.0063918
Nifk ENSMUSG00000026377	-0.3519147	0.0063918
Hoxb8 ENSMUSG00000056648	0.7404632	0.0067174
Smchd1 ENSMUSG00000024054	-0.353948	0.0067174
Ii33 ENSMUSG00000024810	0.2942676	0.0068304
Cebpz ENSMUSG00000024081	-0.3515273	0.006859
Slc2a1 ENSMUSG00000028645	0.2835288	0.0071409
Pnn ENSMUSG00000020994	-0.3261375	0.0071514
Ass1 ENSMUSG00000076441	0.2952939	0.0073302
Uba3 ENSMUSG00000030061	-0.4039053	0.0076633
Fibcd1 ENSMUSG00000026841	-1.3000423	0.0076633
Ubr4 ENSMUSG00000066036	0.2891269	0.0078924
Hist1h1d ENSMUSG00000052565	-1.6421158	0.0079248
Vps37c ENSMUSG00000048832	0.3089614	0.0082094
Magt1 ENSMUSG00000031232	-0.3936707	0.0084725
Ifi207 ENSMUSG00000073490	0.5526028	0.0087125
Cxcl9 ENSMUSG00000029417	0.7813157	0.0087846
Mfap1a ENSMUSG00000068479	-0.646582	0.0091681
Tapbp ENSMUSG00000024308	0.266538	0.0092203
Tmem184b ENSMUSG000000090	0.2803699	0.0092466
Rap1a ENSMUSG00000068798	-0.3172509	0.009342
Dars ENSMUSG00000026356	-0.3218219	0.009342
Lnpk ENSMUSG00000009207	0.3565597	0.009342
Ggps1 ENSMUSG00000021302	-0.5044298	0.009342
Prex1 ENSMUSG00000039621	0.5562405	0.0094062
Stat2 ENSMUSG00000040033	0.2686244	0.0094606
Zfp516 ENSMUSG00000058881	0.3132962	0.0097293
Dnajc10 ENSMUSG00000027006	-0.302301	0.0097293
Prcp ENSMUSG00000061119	0.3912392	0.0097535
Tceal9 ENSMUSG00000042712	-0.2921913	0.0097535
Hivep3 ENSMUSG00000028634	0.3555447	0.0098194
Tmem254c ENSMUSG000000726	6.4763908	0.0102298
Fnbp11 ENSMUSG00000039735	-0.5017996	0.0104059
Zfyve26 ENSMUSG00000066440	0.3471303	0.0104222
St3gal3 ENSMUSG00000028538	0.3973414	0.010721
Larp4 ENSMUSG00000023025	-0.3728947	0.0108606
Ehd4 ENSMUSG00000027293	0.2776503	0.0114323
Ssb ENSMUSG00000068882	-0.3181141	0.0117522
Mast4 ENSMUSG00000034751	0.3191483	0.0119439
Slc2a6 ENSMUSG00000036067	0.5955431	0.0122507
Igsf3 ENSMUSG00000042035	0.327101	0.0122965
Tmem167 ENSMUSG0000001242	-0.3011945	0.0122965
mt-Co2 ENSMUSG00000064354	-0.6118104	0.0123911
Nop58 ENSMUSG00000026020	-0.3097627	0.0123911
Cda ENSMUSG00000028755	-0.6377045	0.0123917
Nbn ENSMUSG00000028224	-0.4425433	0.0124097
Copb1 ENSMUSG00000030754	-0.3225453	0.0130256
Btaf1 ENSMUSG00000040565	-0.3750505	0.0130303
Cnep1r1 ENSMUSG00000036810	-0.3745041	0.0131591
Hspa13 ENSMUSG00000032932	-0.3682506	0.0132977

Atad2 ENSMUSG00000022360	-0.3688579	0.0139669
Hsp90aa1 ENSMUSG0000002127	-0.2624747	0.0153653
Bzw1 ENSMUSG00000051223	-0.2636766	0.0157828
Stxbp1 ENSMUSG00000026797	0.2808948	0.0158197
Iigp1 ENSMUSG00000054072	0.3076836	0.0158197
Gnb4 ENSMUSG00000027669	0.2697278	0.0160914
Usp18 ENSMUSG00000030107	0.2672646	0.0160914
Hk2 ENSMUSG00000000628	0.2873754	0.0160967
Syvn1 ENSMUSG00000024807	0.2652888	0.0161444
Capza2 ENSMUSG00000015733	-0.2645545	0.0161702
Zc3h15 ENSMUSG00000027091	-0.3041007	0.0167661
Sept10 ENSMUSG00000019917	-0.3976247	0.0174488
Mov10 ENSMUSG00000002227	0.2616316	0.017568
Adgrg1 ENSMUSG00000031785	-0.4287628	0.0176162
Cav1 ENSMUSG00000007655	-0.2625978	0.0177663
Bcl2l11 ENSMUSG00000027381	0.3115005	0.0181537
Igtp ENSMUSG00000078853	0.2715948	0.0182796
Hlx ENSMUSG00000039377	0.5136964	0.0184113
Nsd1 ENSMUSG00000021488	-0.3005098	0.0184113
Lin7c ENSMUSG00000027162	-0.3777593	0.0185995
Vps50 ENSMUSG00000001376	-0.5052916	0.0185995
Tnip1 ENSMUSG00000020400	0.2706626	0.0189256
Ppm1l ENSMUSG00000027784	0.3629739	0.0191842
Nfkb1 ENSMUSG00000028163	0.2574009	0.0192397
Bcl9 ENSMUSG00000038256	0.3212491	0.0194132
C1ra ENSMUSG00000055172	0.2934712	0.0195175
Pds5b ENSMUSG00000034021	-0.4200083	0.0195344
Mat2b ENSMUSG00000042032	0.2731398	0.0195344
Gipr ENSMUSG00000030406	-1.1613222	0.0195344
Pi4k2a ENSMUSG00000025178	0.2567144	0.0195344
Slc25a12 ENSMUSG00000027010	0.3044797	0.0195344
Parp11 ENSMUSG00000037997	0.304808	0.0195595
Tmem106a ENSMUSG000000349	0.2771756	0.0195595
Cops2 ENSMUSG00000027206	-0.3045031	0.0195595
Prim1 ENSMUSG00000025395	-0.2914835	0.0195595
Pdgfb ENSMUSG00000000489	0.568491	0.0195595
Zmym5 ENSMUSG00000040123	-0.4647922	0.019827
Slc5a7 ENSMUSG00000023945	-1.0509837	0.020005
Zc3h14 ENSMUSG00000021012	-0.3268096	0.0201541
Sfxn1 ENSMUSG00000021474	-0.2867907	0.0201541
Trim59 ENSMUSG00000034317	-0.291339	0.0201541
S1pr3 ENSMUSG00000067586	0.3253732	0.0201541
Hist1h2bg ENSMUSG0000005838	-1.8018388	0.0201541
Mmp28 ENSMUSG00000020682	0.5829481	0.0201541
Ifit1b1 ENSMUSG00000079339	0.831504	0.0201541
Dtx3l ENSMUSG00000049502	0.2765408	0.020421
Mob4 ENSMUSG00000025979	-0.3950093	0.0213066
Rfx5 ENSMUSG00000005774	0.3793817	0.021453
Mphosph8 ENSMUSG0000007918	-0.475906	0.0215103
Tent5a ENSMUSG00000032265	0.3993984	0.0215506
Mpeg1 ENSMUSG00000046805	0.6217404	0.0215506
Ccdc186 ENSMUSG00000035173	-0.4344599	0.0216295
Sf3b1 ENSMUSG00000025982	-0.2618257	0.0216295

Slc9a5 ENSMUSG00000014786	-0.3190342	0.0219277
Zc3h12a ENSMUSG00000042677	0.3073132	0.0219277
Ap3m1 ENSMUSG00000021824	-0.4596471	0.0225376
Pum2 ENSMUSG00000020594	-0.3014546	0.0226444
Snrpb2 ENSMUSG00000008333	-0.2758475	0.0229444
Ddx52 ENSMUSG00000020677	-0.3540283	0.0230094
Plscr1 ENSMUSG00000032369	0.2607636	0.0232296
Irf2 ENSMUSG00000031627	0.2690429	0.0232326
Catsper2 ENSMUSG00000033486	-1.1581097	0.0232988
Irf5 ENSMUSG00000029771	0.2571839	0.0235035
Ak4 ENSMUSG00000028527	0.2788404	0.0236008
Rbms2 ENSMUSG00000040043	0.253881	0.0236008
Trim12c ENSMUSG00000057143	-0.401744	0.0242005
Matr3 ENSMUSG00000037236	-0.2972488	0.0244979
Pml ENSMUSG00000036986	0.274058	0.024675
Fabp7 ENSMUSG00000019874	-0.8819598	0.0248241
Hdc ENSMUSG00000027360	0.5800527	0.0248241
Kpna2 ENSMUSG00000018362	-0.2525619	0.0248241
Cacybp ENSMUSG00000014226	-0.2850311	0.0248241
Ddx46 ENSMUSG00000021500	-0.2968399	0.0251572
Lrch4 ENSMUSG00000093445	2.8053458	0.0256107
Slc9a3r1 ENSMUSG00000020733	0.3281607	0.0266624
Psmb9 ENSMUSG00000096727	0.3232542	0.0267218
Alkbh5 ENSMUSG00000042650	0.2500356	0.0267218
Fryl ENSMUSG00000070733	0.3654315	0.0267218
Optn ENSMUSG00000026672	0.3362867	0.0272379
Smap1 ENSMUSG00000026155	0.4448413	0.0274606
Slc23a2 ENSMUSG00000027340	0.3421966	0.0278307
Kbtbd4 ENSMUSG00000005505	0.4733091	0.0282897
Usp15 ENSMUSG00000020124	-0.3847856	0.0282897
Zdhhc17 ENSMUSG00000035798	-0.3921821	0.0282897
Wnt5a ENSMUSG00000021994	0.6480931	0.0288362
Foxo3 ENSMUSG00000048756	0.3143521	0.0291645
Slc25a44 ENSMUSG00000050144	0.2515737	0.0291645
Ptdss2 ENSMUSG00000025495	0.3225577	0.0293847
Farsb ENSMUSG00000026245	-0.2906408	0.0294856
Ncapg ENSMUSG00000015880	-0.4569188	0.0300738
Id4 ENSMUSG00000021379	-0.5835101	0.0305562
Riok2 ENSMUSG00000116564	-0.3568996	0.0313294
Tank ENSMUSG00000064289	-0.4603206	0.0318917
Ttc37 ENSMUSG00000033991	-0.4600195	0.032047
Ras111b ENSMUSG00000049907	-0.7193584	0.0321941
Cnot1 ENSMUSG00000036550	-0.2610763	0.0321941
Ttk ENSMUSG00000038379	-0.4748976	0.0322333
Pla1a ENSMUSG00000002847	0.4136146	0.0322333
Gmfb ENSMUSG00000062014	-0.3520572	0.0322333
Rsl1d1 ENSMUSG00000005846	-0.2582978	0.0324572
Stx3 ENSMUSG00000041488	0.3334901	0.0326966
Gnl3 ENSMUSG00000042354	-0.2688148	0.0328432
Sdcbp ENSMUSG00000028249	-0.2495673	0.0344841
Gpr146 ENSMUSG00000044197	0.5110417	0.0347925
Nucks1 ENSMUSG00000026434	-0.2470363	0.0348526
Rsb1l ENSMUSG00000039968	-0.5256083	0.0348526

Tbx6 ENSMUSG00000030699	-1.4703921	0.0348526
Gm11273 ENSMUSG0000007994	0.4750968	0.0348526
Clic4 ENSMUSG00000037242	0.2476711	0.0350065
Dclre1a ENSMUSG00000025077	-0.3905813	0.0350554
Zdhhc20 ENSMUSG00000021969	-0.359166	0.0350554
Slco3a1 ENSMUSG00000025790	0.2462404	0.0352446
2610008E11Rik ENSMUSG000000	-0.7413813	0.0352446
Ptprj ENSMUSG00000025314	0.3480617	0.0352946
Fgf2 ENSMUSG00000037225	-1.1274001	0.0352946
Cbx5 ENSMUSG00000009575	-0.252013	0.0355514
Dll1 ENSMUSG00000014773	0.9160026	0.0356294
Trafd1 ENSMUSG00000042726	0.2480744	0.0356294
Igfbp3 ENSMUSG00000020427	0.2595786	0.0360086
March7 ENSMUSG00000026977	-0.4665711	0.0360086
Usp38 ENSMUSG00000038250	-0.3611103	0.0360086
Slc16a6 ENSMUSG00000041920	-0.7447978	0.0360086
Elf1 ENSMUSG00000036461	0.2749275	0.0360086
Mlf1 ENSMUSG00000048416	-0.6617245	0.0360353
Twistnb ENSMUSG00000020561	-0.4233165	0.0365167
Ly6e ENSMUSG00000022587	0.2456214	0.0365167
Mbtd1 ENSMUSG00000059474	-0.4388922	0.0365167
Ltn1 ENSMUSG00000052299	-0.3382135	0.0365167
Rpf2 ENSMUSG00000038510	-0.3415222	0.0371286
Chek1 ENSMUSG00000032113	-0.5070544	0.0371286
Serpib8 ENSMUSG00000026315	-1.0271573	0.0371286
Dynlt3 ENSMUSG00000031176	-0.3748429	0.037358
Cpped1 ENSMUSG00000065979	0.2843126	0.0380688
Hnrnp1 ENSMUSG00000066037	-0.2501514	0.0380688
Heatr1 ENSMUSG00000050244	-0.2774802	0.0380688
Abl2 ENSMUSG00000026596	0.2874463	0.0380688
Serinc1 ENSMUSG00000019877	-0.2515403	0.0382483
Srsf10 ENSMUSG00000028676	-0.2479794	0.0386158
Psmb10 ENSMUSG00000031897	0.2529466	0.038625
Pls3 ENSMUSG00000016382	-0.268406	0.0386273
Il1rn ENSMUSG00000026981	2.0349296	0.0392002
Crybg1 ENSMUSG00000019866	0.2798886	0.0395834
Sept7 ENSMUSG00000001833	-0.2951628	0.0395834
Ctso ENSMUSG00000028015	-0.6497507	0.0397339
Orc3 ENSMUSG00000040044	-0.3941319	0.0398567
Creb1 ENSMUSG00000025958	-0.4219408	0.0398567
Wapl ENSMUSG00000041408	-0.3091054	0.0398567
Ppil4 ENSMUSG00000015757	-0.4054566	0.0398567
Erbin ENSMUSG00000021709	-0.3636175	0.0405811
Tor3a ENSMUSG00000060519	0.2285297	0.0414409
Ankrd53 ENSMUSG00000014747	-1.9154874	0.0415868
Sms ENSMUSG00000071708	-0.26623	0.0415868
Adam10 ENSMUSG00000054693	-0.3166751	0.042156
Mid2 ENSMUSG0000000266	-0.7666486	0.042385
Neur13 ENSMUSG00000047180	0.5411114	0.042385
Fkbp3 ENSMUSG00000020949	-0.3096455	0.0425285
Ndufa4l2 ENSMUSG0000004028	-2.7347618	0.0425285
Sulf2 ENSMUSG00000006800	0.2519423	0.0425694
Dusp28 ENSMUSG00000047067	0.4603777	0.0426223

Oas1g ENSMUSG00000066861	0.4272032	0.0430227
1110059E24Rik ENSMUSG00000	-0.3461386	0.0433355
Heatr6 ENSMUSG00000000976	0.2887159	0.0445853
Tnfaip3 ENSMUSG00000019850	0.3243354	0.0451494
Lap3 ENSMUSG00000039682	0.2450041	0.0454221
Stk17b ENSMUSG00000026094	-0.5263722	0.0458707
Ifi203 ENSMUSG00000039997	0.2421148	0.0458707
Brpf3 ENSMUSG00000063952	0.2525818	0.0461461
Emc2 ENSMUSG00000022337	-0.4236741	0.0465092
Mgea5 ENSMUSG00000025220	-0.2351519	0.0465983
Anapc4 ENSMUSG00000029176	-0.2485297	0.047163
Zc3h7a ENSMUSG00000037965	-0.2773782	0.0472744
Ccdc6 ENSMUSG00000048701	0.2250872	0.0472744
Bmi1 ENSMUSG00000026739	-0.3614365	0.0473569
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Rars ENSMUSG00000018848	-0.2369724	0.0473569
Etv6 ENSMUSG00000030199	0.2504959	0.0473569
Cd109 ENSMUSG00000046186	-0.2699989	0.0478126
Tmx3 ENSMUSG00000024614	-0.3063151	0.0486637
Clu ENSMUSG00000022037	0.6572783	0.0490761
Nemf ENSMUSG00000020982	-0.3405597	0.0490761
Slit3 ENSMUSG00000056427	0.2643853	0.0490761
Wtap ENSMUSG00000060475	-0.2517687	0.0490761
Gtpbp4 ENSMUSG00000021149	-0.2584498	0.0492892
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Rnf19b ENSMUSG00000028793	0.2446012	0.0509832
Spn ENSMUSG00000040761	0.2942123	0.0509832
Synm ENSMUSG00000030554	-1.1329937	0.0512129
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Trappc2 ENSMUSG00000079317	-0.7778874	0.0525091
Picalm ENSMUSG00000039361	-0.2243456	0.0527296
Cwf19l2 ENSMUSG00000025898	-0.7765144	0.0527296
Tmed7 ENSMUSG00000033184	-0.2283215	0.0529732
Gypc ENSMUSG00000090523	0.2393601	0.0535559
Ttl13 ENSMUSG00000045467	-2.0847149	0.053641
Rnf31 ENSMUSG00000047098	0.2509651	0.0536961
1520401A03Rik ENSMUSG00000	-2.0456326	0.0537173
Lzts1 ENSMUSG00000036306	2.2330693	0.0537173
Eepd1 ENSMUSG00000036611	1.1434883	0.0542975
Gas2 ENSMUSG00000030498	-0.4579805	0.0545461
Gpr84 ENSMUSG00000063234	1.8124379	0.0545461
Orai1 ENSMUSG00000049686	-0.3758567	0.0547426
Oas1a ENSMUSG00000052776	0.250187	0.0547426
Sec24b ENSMUSG00000001052	0.2370553	0.0547426
Klh11 ENSMUSG00000048732	-0.7625187	0.0547426
Dcun1d4 ENSMUSG00000051674	-0.4679729	0.0557357
Orc4 ENSMUSG00000026761	-0.4022844	0.0561358
Spes3 ENSMUSG00000054408	-0.2562279	0.0561358
Eif3m ENSMUSG00000027170	-0.2280294	0.0567847
Vamp7 ENSMUSG00000051412	-0.5748093	0.0567847
Prpf40a ENSMUSG00000061136	-0.2510296	0.057588
Dbf4 ENSMUSG00000002297	-0.2648617	0.057588
mt-Co1 ENSMUSG00000064351	-0.2205857	0.0579613



Zfp961 ENSMUSG00000052446	-0.4782946	0.0580402
Bcor ENSMUSG00000040363	0.2457715	0.0581447
Fam71e1 ENSMUSG00000051113	-1.5384519	0.0587488
Nsrp1 ENSMUSG00000037958	-0.5606393	0.0592249
Utp18 ENSMUSG00000054079	-0.2518223	0.060202
Xpnpep2 ENSMUSG00000037005	1.400955	0.0604713
Ubr5 ENSMUSG00000037487	-0.2328236	0.0609591
Plaa ENSMUSG00000028577	-0.2479428	0.061066
Lig4 ENSMUSG00000049717	-0.6201643	0.0614218
Rab43 ENSMUSG00000030055	0.6989835	0.0620968
Rabgap1 ENSMUSG00000035437	-0.2652305	0.0621112
Csnk1g3 ENSMUSG00000073563	-0.318752	0.0624746
Zscan26 ENSMUSG00000022228	-0.4539273	0.0629966
Gpx8 ENSMUSG00000021760	-0.2951966	0.0629966
Ccr12 ENSMUSG00000043953	1.2169892	0.0641568
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Lgr6 ENSMUSG00000042793	-0.9704241	0.0646771
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Tubgcp5 ENSMUSG00000033790	-0.4133482	0.0646771
Syap1 ENSMUSG00000031357	-0.3650792	0.0646771
Alg10b ENSMUSG00000075470	-0.2641514	0.065196
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Fgfr1op2 ENSMUSG00000040242	-0.2528183	0.065535
Actr2 ENSMUSG00000020152	-0.2251726	0.0655626
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Zadh2 ENSMUSG00000049090	0.2436907	0.0684062
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Cfap100 ENSMUSG00000048794	-1.4467003	0.0687771
Sema5b ENSMUSG00000052133	2.6109852	0.0687771
Mtmr10 ENSMUSG00000030522	-0.4654483	0.0687771
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Fat1 ENSMUSG00000070047	0.2834621	0.0687771
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Prpf38b ENSMUSG00000027881	-0.2202056	0.0695291
Paxbp1 ENSMUSG00000022974	-0.3415969	0.0695291
Dhcr24 ENSMUSG00000034926	0.239313	0.0695291
G2e3 ENSMUSG00000035293	-0.3990907	0.069639
Hmmr ENSMUSG00000020330	-0.3391502	0.069639
Zfp146 ENSMUSG00000037029	-0.390863	0.069639
Taf13 ENSMUSG00000048100	-0.4589321	0.0699712
Rbm6 ENSMUSG00000032582	-0.2570284	0.0699712

Runx3 ENSMUSG00000070691	0.2705395	0.0700515
Tmem245 ENSMUSG0000005529	-0.2792753	0.0700515
Trim25 ENSMUSG00000000275	0.2264816	0.0701465
Gpr176 ENSMUSG00000040133	0.2719088	0.0701932
Cep55 ENSMUSG00000024989	-0.3115221	0.0701932
Pus10 ENSMUSG00000020280	-0.3750157	0.0701932
Cygb ENSMUSG00000020810	0.9541737	0.0701932
Sgo1 ENSMUSG00000023940	-0.279615	0.0701932
Wnt10b ENSMUSG00000022996	0.5529591	0.0701932
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Fzd7 ENSMUSG00000041075	0.2168204	0.0708881
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Mapk8 ENSMUSG00000021936	-0.3795176	0.0730915
Zfx ENSMUSG00000079509	-0.4271844	0.0733607
Gmip ENSMUSG00000036246	-0.2962868	0.0733607
Crbn ENSMUSG00000005362	-0.5322756	0.0737167
Rbpj ENSMUSG00000039191	0.2248779	0.0742521
Lfng ENSMUSG00000029570	-0.3348526	0.0744087
Virma ENSMUSG00000040720	-0.2610686	0.0749399
Klc4 ENSMUSG00000003546	0.3454994	0.0753801
Gm49450 ENSMUSG0000011635	-1.7474967	0.0760711
Trak1 ENSMUSG00000032536	0.2390829	0.0760711
Gm36210 ENSMUSG0000011022	2.2910446	0.0771291
Wdr75 ENSMUSG00000025995	-0.2691519	0.0771291
Slk ENSMUSG00000025060	-0.2453952	0.078596
Obs1 ENSMUSG00000026211	0.215426	0.078596
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Cse1 ENSMUSG00000002718	-0.290143	0.078596
Megf10 ENSMUSG00000024593	-0.5174132	0.0795471
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Ifit3 ENSMUSG00000074896	0.2228568	0.0795471
Arid5a ENSMUSG00000037447	0.2905149	0.0799108
Parp12 ENSMUSG00000038507	0.2160333	0.0799408
Ccp110 ENSMUSG00000033904	-0.4939132	0.0799408
Top1 ENSMUSG00000070544	-0.2442867	0.081325
Fzd1 ENSMUSG00000044674	0.2351737	0.0821073
Tceal8 ENSMUSG00000051579	-0.2945066	0.0825376
Tyro3 ENSMUSG00000027298	0.2728865	0.0828606
Nrp2 ENSMUSG00000025969	0.2335584	0.0830492
Dld ENSMUSG00000020664	-0.2363778	0.0830492
Hist1h3h ENSMUSG00000101355	-1.4449624	0.0830492
Exosc9 ENSMUSG00000027714	-0.3758888	0.0837579
Slc9a8 ENSMUSG00000039463	0.2645369	0.0838633
Ube2l6 ENSMUSG00000027078	0.211137	0.0840817
Gm14325 ENSMUSG0000009536	-0.9575979	0.0842147
Rbak ENSMUSG00000061898	-0.4025785	0.0845972
Map4k5 ENSMUSG00000034761	-0.2716764	0.0856349

Mpp2 ENSMUSG00000017314	0.3217152	0.0861111
Ifi47 ENSMUSG00000078920	0.2930206	0.0867189
Rreb1 ENSMUSG00000039087	0.337476	0.0868521
Ccne2 ENSMUSG00000028212	-0.3343261	0.0870537
Rbm39 ENSMUSG00000027620	-0.2140456	0.087628
Enpp4 ENSMUSG00000023961	0.3064841	0.087628
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Serac1 ENSMUSG00000015659	-0.6492033	0.0880496
Arid1b ENSMUSG00000069729	0.223647	0.0880496
Ep400 ENSMUSG00000029505	0.2302449	0.0898121
Bcr ENSMUSG00000009681	0.2309349	0.0906351
Tlcd1 ENSMUSG00000019437	-0.4094138	0.0911018
Sdc2 ENSMUSG00000022261	-0.2090045	0.0912423
Orc2 ENSMUSG00000026037	-0.2894744	0.0912702
Rnf135 ENSMUSG00000020707	0.2990816	0.0912702
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Slfn2 ENSMUSG00000072620	0.5454975	0.0918155
Arhgap12 ENSMUSG0000004122	-0.5053931	0.092305
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Anxa7 ENSMUSG00000021814	0.2120825	0.092305
Socs1 ENSMUSG00000038037	0.2872907	0.092305
Nuf2 ENSMUSG00000026683	-0.2674723	0.092305
Lcat ENSMUSG00000035237	-0.5249118	0.092305
Arhgap23 ENSMUSG0000004980	0.2207118	0.092305
Nrip2 ENSMUSG00000001520	0.9971683	0.092305
Igf2r ENSMUSG00000023830	0.2110264	0.092305
Serpinb2 ENSMUSG00000062345	-0.7252997	0.092305
Cmip ENSMUSG00000034390	0.2964726	0.0926044
Shcbp1 ENSMUSG00000022322	-0.3542589	0.0926044
Ube2b ENSMUSG00000020390	-0.2345652	0.09311
Swsap1 ENSMUSG00000051238	0.4033115	0.0935376
Nfkb2 ENSMUSG00000025225	0.2019674	0.094439
Prkg2 ENSMUSG00000029334	-0.2788574	0.095781
Oas2 ENSMUSG00000032690	0.2632531	0.0960271
Tpx2 ENSMUSG00000027469	-0.2109299	0.096487
Tap2 ENSMUSG00000024339	0.2074767	0.0967554
Fam229b ENSMUSG00000051736	-0.8529734	0.0967554
Nfe2l2 ENSMUSG00000015839	0.2263812	0.0967554
Irf7 ENSMUSG00000025498	0.2254991	0.0967554
Kif5b ENSMUSG00000006740	-0.2820243	0.0969549
Sacs ENSMUSG00000048279	0.5338266	0.0969549
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Rwdd4a ENSMUSG00000031568	-0.2370446	0.0979178
Zfp958 ENSMUSG00000058748	-1.1282979	0.0980745
Erlin1 ENSMUSG00000025198	-0.2146616	0.098217
Phactr1 ENSMUSG00000054728	0.6586544	0.098217
Dnajc2 ENSMUSG00000029014	-0.2896142	0.098217
Lrrc40 ENSMUSG00000063052	-0.2585691	0.0985073
Gen1 ENSMUSG00000051235	-0.3831	0.0988901
Tbrg1 ENSMUSG00000011114	0.2052565	0.0988901
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Mikl ENSMUSG00000012519	0.2487102	0.0995078

As3mt ENSMUSG00000003559	1.9275945	0.0995203
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Tusc1 ENSMUSG00000054000	-0.5138155	0.1008146
Rcor2 ENSMUSG00000024968	-0.2898151	0.1011131
Gpbp1 ENSMUSG00000032745	-0.2998281	0.1011703
Ccdc47 ENSMUSG00000078622	-0.2549654	0.101178
Rbm4b ENSMUSG00000033760	-0.3381608	0.101178
Dhx36 ENSMUSG00000027770	-0.3492442	0.1014215
Fam210b ENSMUSG00000027493	0.5609731	0.1035697
Zfp87 ENSMUSG00000097333	-0.6735385	0.10412
Pfkip ENSMUSG00000021196	0.2076168	0.10412
Ankrd28 ENSMUSG00000014496	-0.2891697	0.1041401
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Zbtb5 ENSMUSG00000049657	0.2488318	0.1048249
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Ehbp1 ENSMUSG00000042302	-0.4796882	0.1048249
Swt1 ENSMUSG00000052748	-0.6601828	0.1055518
Utp11 ENSMUSG00000028907	-0.2364858	0.1055518
Rb1cc1 ENSMUSG00000025907	-0.4543497	0.1055518
Pdlim2 ENSMUSG00000022090	-0.326168	0.1061743
Krr1 ENSMUSG00000063334	-0.3404132	0.1070333
Trmt11 ENSMUSG00000053286	0.2738981	0.1077286
Vps13c ENSMUSG00000035284	0.5795034	0.1079402
Pfkl ENSMUSG00000020277	0.1991784	0.10819
Psme4 ENSMUSG00000040850	-0.408869	0.1081946
Ick ENSMUSG00000009828	0.2633959	0.108583
Bivm ENSMUSG00000041684	-0.384806	0.108583
Aasdhppt ENSMUSG00000025893	-0.3168432	0.1090618
Rbm12b1 ENSMUSG0000004666	-0.7672169	0.1092398
Kif24 ENSMUSG00000028438	0.4472659	0.1093254
Stat3 ENSMUSG00000004040	0.2199987	0.1094285
Tbc1d32 ENSMUSG00000038122	-0.9326255	0.1110041
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Chst10 ENSMUSG00000026080	-0.5782739	0.112609
Sardh ENSMUSG00000009614	0.2568822	0.1126397
Ppwd1 ENSMUSG00000021713	-0.4025888	0.1129562
Deaf13 ENSMUSG00000022300	-0.2534681	0.1136854
Ptcd3 ENSMUSG00000063884	-0.2601605	0.1142374
Rasgrp3 ENSMUSG00000071042	0.9944652	0.1145212
Samd10 ENSMUSG00000038605	-1.8872396	0.1145212
Pabpc1 ENSMUSG00000022283	0.1987583	0.1150579
Pcdh18 ENSMUSG00000037892	-0.2298026	0.1150579
Man2a2 ENSMUSG00000038886	0.234178	0.1154112
Rdh11 ENSMUSG00000066441	0.2440077	0.1154478
Pnrc2 ENSMUSG00000028675	-0.2470119	0.1154478
Pgam2 ENSMUSG00000020475	-1.2082342	0.1154478
Dnajc3 ENSMUSG00000022136	-0.2881337	0.1154478
Pkd2l2 ENSMUSG00000014503	-0.7359862	0.1154478
Foxn2 ENSMUSG00000034998	-0.3496729	0.1154478
Apln ENSMUSG00000037010	0.2259406	0.1154478
Ppp2r5a ENSMUSG00000026626	0.2547223	0.1159205
Gm10762 ENSMUSG0000007480	-0.7981952	0.1164233

Tm9sf4 ENSMUSG00000068040	0.2049274	0.1164233
Wars ENSMUSG00000021266	0.2121481	0.1164233
Maf ENSMUSG00000055435	-0.3059188	0.1165345
Gm17334 ENSMUSG0000009119	1.1102921	0.1168335
Sesn3 ENSMUSG00000032009	0.2871796	0.1168335
Thoc1 ENSMUSG00000024287	-0.3302515	0.1168686
Zfp949 ENSMUSG00000032425	-0.7199447	0.1172859
Sipa111 ENSMUSG00000042700	0.2163928	0.1179241
Timm10b ENSMUSG0000008984	-0.5867072	0.1179241
Hmgb1 ENSMUSG00000066551	-0.2020787	0.1179241
Lgals3bp ENSMUSG00000033880	0.1933899	0.1205224
Plekhf2 ENSMUSG00000049969	0.3219041	0.1210536
Eprs ENSMUSG00000026615	-0.1988132	0.1212318
Mb21d1 ENSMUSG00000032344	0.2638821	0.1218341
Apc2 ENSMUSG00000020135	0.3518465	0.1218341
Vhl ENSMUSG00000033933	0.2180375	0.1223674
Nrp1 ENSMUSG00000025810	-0.242191	0.1226297
Rngtt ENSMUSG00000028274	-0.3485619	0.1226297
Fads2 ENSMUSG00000024665	0.2071993	0.1231384
Rsad1 ENSMUSG00000039096	0.3660455	0.1231509
Brca1 ENSMUSG00000017146	-0.3512268	0.1231509
Ankrd52 ENSMUSG00000014498	0.211013	0.1232574
Irgc1 ENSMUSG00000062028	1.5810681	0.1235401
Pik3r5 ENSMUSG00000020901	0.6172403	0.1240094
Plxna4 ENSMUSG00000029765	-0.6114067	0.1242114
Slc26a11 ENSMUSG00000039908	0.5272178	0.1242114
D17Wsu92e ENSMUSG00000056	0.1949626	0.1243658
Ccdc24 ENSMUSG00000078588	1.6283123	0.1248524
Cdc27 ENSMUSG00000020687	-0.3248409	0.1255226
Ngly1 ENSMUSG00000021785	-0.3490267	0.1257011
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Ik ENSMUSG00000024474	-0.2213462	0.1257011
Bcl2l13 ENSMUSG00000009112	0.204622	0.1257011
Gm12166 ENSMUSG0000006989	0.7749808	0.1263316
Otud4 ENSMUSG00000036990	-0.2864122	0.1263877
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Etv5 ENSMUSG00000013089	0.365927	0.1263877
Nfkbie ENSMUSG00000023947	0.4040109	0.1263877
Apol7a ENSMUSG00000010601	0.4687748	0.1263877
Rnpep11 ENSMUSG00000026269	0.2132036	0.1263877
Trp53i11 ENSMUSG00000068735	0.3894009	0.1263877
Nup155 ENSMUSG00000022142	-0.2185264	0.1268011
Stil ENSMUSG00000028718	-0.4064737	0.1268011
Apod ENSMUSG00000022548	0.4402888	0.1268273
Carmil1 ENSMUSG00000021338	0.2524997	0.1268273
Nts ENSMUSG00000019890	0.5200233	0.1268273
Mrps18c ENSMUSG00000016833	-0.4313141	0.1268273
Zcwpw1 ENSMUSG00000037108	-0.3149002	0.1268273
Far1 ENSMUSG00000030759	-0.2701979	0.1268273
Haus1 ENSMUSG00000041840	-0.3442245	0.1277039
Slc37a3 ENSMUSG00000029924	0.2278629	0.129437
Hspd1 ENSMUSG00000025980	-0.1929723	0.1300713
Efna4 ENSMUSG00000028040	-0.35061	0.1300713

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Nmt2 ENSMUSG00000026643	-0.2546756	0.1302909
Cachd1 ENSMUSG00000028532	0.2145621	0.1304403
Rere ENSMUSG00000039852	0.2123563	0.1305065
Jade1 ENSMUSG00000025764	-0.2536718	0.1305065
Chpt1 ENSMUSG00000060002	-0.3459707	0.1306425
Trim66 ENSMUSG00000031026	1.4349584	0.1327684
Unc13d ENSMUSG00000057948	1.2133502	0.132791
Ccnb1 ENSMUSG00000041431	-0.1987325	0.1334321
Ppp6r1 ENSMUSG00000052296	0.2007695	0.1346236
Dpysl2 ENSMUSG00000022048	-0.3051549	0.1358362
Carnmt1 ENSMUSG00000024726	-0.353775	0.136138
Bmpr1a ENSMUSG00000021796	-0.278757	0.136138
4930430F08Rik ENSMUSG00000	0.6198698	0.136138
Ago2 ENSMUSG00000036698	0.2595313	0.136138
Scrn3 ENSMUSG00000008226	-0.4059962	0.136138
Golga1 ENSMUSG00000026754	-0.3275022	0.13698
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Mpp5 ENSMUSG00000021112	-0.5108036	0.1370398
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Dot1l ENSMUSG00000061589	0.2100674	0.1379752
Pgm2l1 ENSMUSG00000030729	-0.5217797	0.1379752
Armcx4 ENSMUSG00000049804	-0.3208332	0.1389237
Kmt5b ENSMUSG00000045098	-0.2415491	0.1389237
Fytd1 ENSMUSG00000022800	-0.2443842	0.1394486
Gtf2ird2 ENSMUSG00000015942	0.2943909	0.1403997
N4bp1 ENSMUSG00000031652	0.2185134	0.1418768
Rin2 ENSMUSG00000001768	0.2233053	0.1418768
Omp ENSMUSG00000074006	0.7542894	0.1433046
Nfic ENSMUSG00000055053	0.1888917	0.1433183
Pex26 ENSMUSG00000067825	0.3446582	0.1433183
Gdpgp1 ENSMUSG00000050973	0.585616	0.1433183
Capza1 ENSMUSG00000070372	-0.1995681	0.1433979
Lpin1 ENSMUSG00000020593	0.4150853	0.1435132
Zfp27 ENSMUSG00000062040	-0.4326616	0.1435429
Suz12 ENSMUSG00000017548	-0.2365778	0.1435433
Golim4 ENSMUSG00000034109	-0.2416653	0.1435433
Brd4 ENSMUSG00000024002	0.192719	0.1435899
Brip1 ENSMUSG00000034329	-0.4536423	0.1435899
Chuk ENSMUSG00000025199	-0.2169377	0.1453974
Lipa ENSMUSG00000024781	0.196362	0.1463065
Eif4g2 ENSMUSG00000005610	-0.1914962	0.1463065
Tbc1d15 ENSMUSG00000020130	-0.2326585	0.1470637
Zfp217 ENSMUSG00000052056	0.2510267	0.1470637
Zfp120 ENSMUSG00000068134	-0.7054914	0.1470637
Lama4 ENSMUSG00000019846	0.2488078	0.1470637
Iqcb1 ENSMUSG00000022837	-0.50259	0.1470637
Irgm1 ENSMUSG00000046879	0.1971664	0.1472311
Cnot2 ENSMUSG00000020166	-0.2308486	0.1472513
Wac ENSMUSG00000024283	-0.2558576	0.1475798
Gphn ENSMUSG00000047454	0.3090198	0.1480665
H2-T24 ENSMUSG00000053835	0.414439	0.1493222

Nes ENSMUSG00000004891	-0.2164299	0.1493222
Bid ENSMUSG00000004446	0.2034562	0.149435
Ddx50 ENSMUSG00000020076	-0.2684944	0.149435
Gtf3c6 ENSMUSG00000019837	-0.2855067	0.1498462
Utp6 ENSMUSG00000035575	-0.1984159	0.1505816
C1qtnf3 ENSMUSG00000058914	0.3361257	0.1510569
Pnmal2 ENSMUSG00000070802	0.8389805	0.1511386
Ero11b ENSMUSG00000057069	0.9653346	0.1513094
Abrac1 ENSMUSG00000078453	-0.2248551	0.1513094
Nptx1 ENSMUSG00000025582	-2.0517303	0.1514211
Fktn ENSMUSG00000028414	-0.425865	0.1520763
Tmod3 ENSMUSG00000058587	0.2197311	0.153117
Ccdc38 ENSMUSG00000036168	1.5773862	0.153117
Hdgfl3 ENSMUSG00000025104	-0.3515985	0.153117
Alpk1 ENSMUSG00000028028	0.5984149	0.153117
Fastkd5 ENSMUSG00000079043	-0.5369036	0.1540296
Eif3a ENSMUSG00000024991	-0.1943727	0.1540296
Cdh24 ENSMUSG00000059674	-0.2660007	0.1540296
Abtb2 ENSMUSG00000032724	0.2311709	0.1540296
Ets2 ENSMUSG00000022895	0.2355181	0.1545491
Prdx6 ENSMUSG00000026701	0.1896226	0.1545491
Kdm4b ENSMUSG00000024201	0.1886787	0.1545491
Hspb6 ENSMUSG00000036854	0.206113	0.1545491
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March5 ENSMUSG00000023307	0.1850512	0.1545491
Dram1 ENSMUSG00000020057	0.2483208	0.1545491
Klh9 ENSMUSG00000070923	-0.2386769	0.1545491
Iqck ENSMUSG00000073856	-1.1150163	0.1547613
Evi5 ENSMUSG00000011831	-0.3606949	0.1547613
Irx3 ENSMUSG00000031734	0.4322728	0.1547613
Slc7a1 ENSMUSG00000041313	0.2035567	0.1547613
Hk1 ENSMUSG00000037012	0.189376	0.1547613
Polr2a ENSMUSG00000005198	0.1947601	0.1550173
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Aldh1a3 ENSMUSG00000015134	-0.8324528	0.1550173
Mettl21a ENSMUSG00000025956	0.2870738	0.1550173
Taf6 ENSMUSG00000036980	0.2397745	0.1553428
Selenot ENSMUSG00000075700	-0.192775	0.155921
Per1 ENSMUSG00000020893	0.2108148	0.1564511
Hmg20a ENSMUSG00000032329	0.2933395	0.1564511
Egln1 ENSMUSG00000031987	0.1883297	0.1567156
Mustn1 ENSMUSG00000042485	-0.6404134	0.1570175
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Polr3k ENSMUSG00000038628	-0.2759955	0.1570175
Tbc1d4 ENSMUSG00000033083	0.602221	0.1571626
Elf4 ENSMUSG00000031103	0.2403403	0.1572746
Xbp1 ENSMUSG00000020484	0.2007178	0.1578834
Myo5b ENSMUSG00000025885	1.2412705	0.1579368
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Tnfsf10 ENSMUSG00000039304	0.6852846	0.1579616
Arhgap29 ENSMUSG0000003983	-0.3499309	0.1579616

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Sbno1 ENSMUSG00000038095	-0.2271665	0.1581622
Smurf2 ENSMUSG00000018363	-0.2757959	0.1581622
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Tlk2 ENSMUSG00000020694	-0.23827	0.1594423
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Hpse ENSMUSG00000035273	0.387792	0.1594423
Isl2 ENSMUSG00000032318	1.3402775	0.1594423
Rab3a ENSMUSG00000031840	-0.3767095	0.1595611
Ddx10 ENSMUSG00000053289	-0.3153634	0.1596496
Pcdhgc3 ENSMUSG00000102918	0.2158672	0.1601717
Rexo5 ENSMUSG00000030924	-0.4707914	0.1603204
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Lamc1 ENSMUSG00000026478	0.2125464	0.160735
Ifit3b ENSMUSG00000062488	0.1912371	0.1609729
Cetn2 ENSMUSG00000031347	-0.3152359	0.1622757
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Ppp6r3 ENSMUSG00000024908	-0.2164427	0.1639594
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Vopp1 ENSMUSG00000037788	0.2230681	0.1640224
Kpna3 ENSMUSG00000021929	-0.2634104	0.1640224
Ddhd2 ENSMUSG00000061313	-0.2471041	0.164026
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Olfml2a ENSMUSG00000046618	0.6198168	0.164026
Ndufa10 ENSMUSG00000026260	0.1867545	0.164026
Rnf20 ENSMUSG00000028309	-0.2510549	0.164026
Trim56 ENSMUSG00000043279	0.192105	0.1644022
Spag9 ENSMUSG00000020859	-0.2926884	0.1647085
Atp11c ENSMUSG00000062949	-0.4634526	0.1649801
Zfp207 ENSMUSG00000017421	-0.1926286	0.1649801
Peg10 ENSMUSG00000092035	0.1865417	0.1655294
Rmdn1 ENSMUSG00000028229	-0.8145991	0.1668255
Pfkfb3 ENSMUSG00000026773	0.2033224	0.1668255
Rad18 ENSMUSG00000030254	-0.2428043	0.1677361
Sdfd1 ENSMUSG00000020952	-0.2867577	0.1683226
Atp11a ENSMUSG00000031441	0.2243516	0.1688518
Pbld2 ENSMUSG00000020072	1.275985	0.169157
Manea ENSMUSG00000040520	-0.702628	0.1696149
Trim26 ENSMUSG00000024457	0.1884032	0.1696149
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Ncoa6 ENSMUSG00000038369	0.2531006	0.1703879
Alg8 ENSMUSG00000035704	-0.3240365	0.1707048
Larp4b ENSMUSG00000033499	-0.2252874	0.170803
Cltc ENSMUSG00000047126	-0.2036161	0.1712656
Tmco1 ENSMUSG00000052428	-0.2779384	0.1712656
Rufy1 ENSMUSG00000020375	0.3349649	0.1716571
Krcc1 ENSMUSG00000053012	-0.3518594	0.1716571
Wfs1 ENSMUSG00000039474	0.3047783	0.1728629
Sh2d1b1 ENSMUSG00000102418	-0.63969	0.1728629
Dhx15 ENSMUSG00000029169	-0.1876843	0.1728629
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Zscan12 ENSMUSG00000036721	-0.4889677	0.1731968
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Map6d1 ENSMUSG00000041205	-1.4567704	0.1733701
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Dag1 ENSMUSG00000039952	0.2191354	0.1740963
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Zfp3612 ENSMUSG00000045817	0.239559	0.1740963
Sdc3 ENSMUSG00000025743	0.1871273	0.1740963
Rtp4 ENSMUSG00000033355	0.1915011	0.1742087
Smarca2 ENSMUSG00000024921	-0.3045822	0.1745004
Usp12 ENSMUSG00000029640	0.1916137	0.1745004
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Vwf ENSMUSG00000001930	1.5834909	0.1745004
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Tubb3 ENSMUSG00000062380	-0.2521459	0.1745004
Acot13 ENSMUSG00000006717	-0.3685294	0.1746943
Tbc1d13 ENSMUSG00000039678	0.1818146	0.1746943
Unc5a ENSMUSG00000025876	0.8387679	0.1746943
Ccng2 ENSMUSG00000029385	0.1824961	0.1751341
Arhgap31 ENSMUSG0000002279	0.1822774	0.1752473
Zfp609 ENSMUSG00000040524	0.2000454	0.1755639
Psmb8 ENSMUSG00000024338	0.2101878	0.175922
Zzz3 ENSMUSG00000039068	-0.2383985	0.175922
Kdm5c ENSMUSG00000025332	0.1869205	0.1764846
Nova1 ENSMUSG00000021047	-0.4265211	0.1765755
Zcchc3 ENSMUSG00000074682	0.2580738	0.1782627
Muc6 ENSMUSG00000048191	-1.9739046	0.178301
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Ckap2 ENSMUSG00000037725	-0.2079061	0.1795742
Haghl ENSMUSG00000061046	-0.2663311	0.1795742
Lrrc32 ENSMUSG00000090958	0.2082892	0.1798002
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Ccl2 ENSMUSG00000035385	0.1863639	0.1801231
Zfp35 ENSMUSG00000063281	-0.356911	0.1801529
Ccdc82 ENSMUSG00000079084	-0.4065375	0.1805746
H2-M3 ENSMUSG00000016206	0.2872047	0.1807163
Znrd1as ENSMUSG00000036214	-0.7812136	0.1819305
B4galt5 ENSMUSG00000017929	0.1786464	0.1819305
Zfr ENSMUSG00000022201	-0.2661663	0.1819305

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Phactr4 ENSMUSG00000066043	0.2120968	0.1820719
Brwd1 ENSMUSG00000022914	-0.3522424	0.1823965
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Epc2 ENSMUSG00000069495	-0.3236824	0.182507
Ints8 ENSMUSG00000040738	-0.316522	0.1837958
Sec62 ENSMUSG00000027706	-0.1993719	0.1837958
Zbtb8os ENSMUSG00000057572	-0.3154704	0.1839447
Mterf1b ENSMUSG00000053178	-1.0237922	0.1839447
Ccdc103 ENSMUSG00000020930	1.0147646	0.1858273
Polr3g ENSMUSG00000035834	-0.3822256	0.185984
Lrrcc1 ENSMUSG00000027550	-0.6024123	0.185984
D3Ertd254e ENSMUSG0000000331	-0.5419937	0.1862518
Hoxa3 ENSMUSG00000079560	-0.4879771	0.1864845
Dmac2 ENSMUSG00000057229	0.3041172	0.1868352
Cyb561 ENSMUSG00000019590	0.9651622	0.1868776
Calm2 ENSMUSG00000036438	-0.1810753	0.1869052
Ptpn23 ENSMUSG00000036057	0.1906528	0.1869052
Arel1 ENSMUSG00000042350	0.2320569	0.1869052
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Pdc ENSMUSG00000009030	-0.3243371	0.1872687
Plag1 ENSMUSG00000019817	0.438204	0.1872687
Uqcrb ENSMUSG00000021520	-0.3198804	0.1883806
Rpl221 ENSMUSG00000039221	-0.2545771	0.1883806
Nrtn ENSMUSG00000039481	0.9005208	0.1883806
Sec16a ENSMUSG00000026924	0.1996094	0.1883806
Tnfrsf1b ENSMUSG00000028599	0.1759105	0.1883806
Zfp644 ENSMUSG00000049606	-0.379102	0.1883806
Tbc1d23 ENSMUSG00000022749	-0.3141774	0.188508
Selenbp1 ENSMUSG00000068874	-0.7818851	0.1895388
Ret ENSMUSG00000030110	-0.5941364	0.1895388
Insrr ENSMUSG00000005640	1.332308	0.1895388
Pou3f1 ENSMUSG00000090125	0.4009132	0.1899295
Hist1h1b ENSMUSG00000058773	-1.7546041	0.1899295
Arhgef1 ENSMUSG00000041971	0.2114154	0.1899295
Tcea1 ENSMUSG00000033813	-0.2004204	0.1899295
Htt ENSMUSG00000029104	0.2179931	0.189966
Crif1 ENSMUSG00000007888	-0.186831	0.190079
Lrch3 ENSMUSG00000022801	0.388258	0.190079
Exoc4 ENSMUSG00000029763	0.3255983	0.190079
Cfdp1 ENSMUSG00000031954	-0.2217521	0.190079
Rhbdf2 ENSMUSG00000020806	0.2570421	0.190079
Rnf114 ENSMUSG00000006418	0.1808936	0.190079
Crebbp ENSMUSG00000022521	-0.2059146	0.1905491
Bbip1 ENSMUSG000000084957	-0.4525908	0.191301
Wsb1 ENSMUSG00000017677	-0.2024299	0.1913144
Sec61a1 ENSMUSG00000030082	0.1826756	0.1913341
Ptx3 ENSMUSG00000027832	0.1728625	0.1919694
Trmt11 ENSMUSG00000019792	-0.4949579	0.1926844
Ssr3 ENSMUSG00000027828	-0.1750114	0.1927201
Suco ENSMUSG00000040297	-0.5176221	0.1930509
Rnf141 ENSMUSG00000030788	-0.4241426	0.193229
H2-T23 ENSMUSG00000067212	0.1746515	0.1936532

Relch ENSMUSG00000026319	-0.3088653	0.1936532
Fam171a2 ENSMUSG0000003468	-0.281745	0.1936532
Cul1 ENSMUSG00000029686	-0.2122748	0.1936532
Mlxip ENSMUSG00000038342	0.2224935	0.1936532
Ndc80 ENSMUSG00000024056	-0.2666267	0.1936532
Med12 ENSMUSG00000079487	0.2119715	0.1936532
Jam2 ENSMUSG00000053062	-1.3232114	0.1936532
Tmsb4x ENSMUSG00000049775	-0.2649064	0.1936532
Gmps ENSMUSG00000027823	-0.1857761	0.1936532
Gsdmd ENSMUSG00000022575	0.231667	0.1936532
Rmnd1 ENSMUSG00000019763	-0.3106965	0.1936532
Cul2 ENSMUSG00000024231	-0.2262025	0.1936532
Sltm ENSMUSG00000032212	-0.262305	0.1936532
Stat5a ENSMUSG00000004043	0.1714786	0.1939078
Zfp397 ENSMUSG00000024276	-0.339333	0.1939078
Myc ENSMUSG00000028654	0.5926957	0.1939078
Hdac10 ENSMUSG00000062906	-0.2547099	0.1941307
Wdr81 ENSMUSG00000045374	0.1951861	0.1951907
Ccdc127 ENSMUSG00000021578	-0.2735497	0.1951907
Ptpn14 ENSMUSG00000026604	0.2016545	0.1951907
Mrpl47 ENSMUSG00000037531	-0.325229	0.195268
Smarca1 ENSMUSG00000031099	-1.5108736	0.1957848
Prkce ENSMUSG00000045038	0.3171782	0.1960854
Slc39a10 ENSMUSG00000025986	-0.2924483	0.1960854
Rab32 ENSMUSG00000019832	0.2725151	0.1960854
Hsh2d ENSMUSG00000062007	1.3780585	0.1960854
Amigo2 ENSMUSG00000048218	0.747002	0.1960854
Plxnb2 ENSMUSG00000036606	0.1789247	0.1960854
Mrpl50 ENSMUSG00000044018	-0.2791791	0.1960854
Mamdc2 ENSMUSG00000033207	0.304046	0.1960854
Larp1 ENSMUSG00000037331	0.1772862	0.1960854
Naa16 ENSMUSG00000022020	-0.3793581	0.1960854
Cwc27 ENSMUSG00000021715	-0.4159946	0.1962077
Ppp1r3b ENSMUSG00000046794	0.2676389	0.1978774
Trim45 ENSMUSG00000033233	0.2997005	0.1989006
Dlec1 ENSMUSG00000038060	1.6329037	0.1989006
mt-Co3 ENSMUSG00000064358	-0.5669652	0.1990859
Glrx ENSMUSG00000021591	0.218132	0.1990859
Cdc5l ENSMUSG00000023932	-0.2039283	0.1990859
Kcnab1 ENSMUSG00000027827	0.3504378	0.1999401
Atl1 ENSMUSG00000021066	0.718046	0.2005518
Cul3 ENSMUSG00000004364	-0.2230004	0.2007963
Csf1r ENSMUSG00000024621	-0.9157899	0.2007963
Rpl7 ENSMUSG00000043716	-0.1952927	0.2013535
Plscr2 ENSMUSG00000032372	0.2463384	0.2013535
Klhl23 ENSMUSG00000042155	-0.3964064	0.2024137
Vegfd ENSMUSG00000031380	0.2354097	0.2024137
Phf8 ENSMUSG00000041229	0.2673906	0.2024137
Xpa ENSMUSG00000028329	-0.3805723	0.2037346
Chst7 ENSMUSG00000037347	1.4300693	0.2037346
Mthfs ENSMUSG00000066442	1.2104561	0.2038049
Slc41a1 ENSMUSG00000013275	0.1923355	0.2038049
Ptbp3 ENSMUSG00000028382	-0.2135257	0.2040964

Gstm1 ENSMUSG00000058135	0.1743462	0.2049733
Smc5 ENSMUSG00000024943	-0.2430234	0.2053705
Cep57 ENSMUSG00000031922	-0.3177619	0.2053705
Lmcd1 ENSMUSG00000057604	0.3851377	0.206136
Cpeb4 ENSMUSG00000020300	-0.568343	0.206136
Col4a5 ENSMUSG00000031274	0.1810626	0.206136
Zfp354a ENSMUSG00000020364	-0.7957057	0.2071383
Sik3 ENSMUSG00000034135	0.1902875	0.2089387
Nfkbial ENSMUSG00000021025	0.1743917	0.2089387
Pqlc3 ENSMUSG00000045679	-0.516439	0.2089387
Klh17 ENSMUSG00000028986	-0.4230302	0.2089387
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Map3k10 ENSMUSG00000040390	0.2059711	0.2089387
Acvr2b ENSMUSG00000061393	0.8249019	0.2100565
Smim15 ENSMUSG00000071180	-0.3028249	0.2110179
Mettl14 ENSMUSG00000028114	-0.2831089	0.2110179
Kif2a ENSMUSG00000021693	-0.2127348	0.2110315
Muc13 ENSMUSG00000073408	-1.7902244	0.2115885
Il15 ENSMUSG00000031712	0.6197499	0.2116167
Agps ENSMUSG00000042410	-0.2057561	0.2116167
Zfp276 ENSMUSG00000001065	0.2205266	0.2118247
Syncrip ENSMUSG00000032423	-0.1834716	0.2133645
Shoc2 ENSMUSG00000024976	-0.2565476	0.2135729
Mns1 ENSMUSG00000032221	-0.5674985	0.2137352
Vac14 ENSMUSG00000010936	0.178658	0.2137433
Rapgef1 ENSMUSG00000039844	0.1762854	0.2143385
3300002I08Rik ENSMUSG00000039844	-1.8993567	0.2145605
Zgpat ENSMUSG00000027582	0.2211372	0.2145605
Prkaa1 ENSMUSG00000050697	-0.3100262	0.2149076
Hcar2 ENSMUSG00000045502	0.9130916	0.2150871
Nudcd3 ENSMUSG00000053838	-0.1783898	0.2154603
Postn ENSMUSG00000027750	-0.2441172	0.2156637
Sdf211 ENSMUSG00000022769	0.2530151	0.2156637
Ptpn22 ENSMUSG00000027843	-0.9721388	0.2156637
Il17ra ENSMUSG00000002897	0.2046039	0.2156637
Mettl27 ENSMUSG00000040557	0.4985258	0.216762
Ttc9b ENSMUSG00000007944	2.0688532	0.2175843
Ube2w ENSMUSG00000025939	-0.3137275	0.2181104
Zc3h7b ENSMUSG00000022390	0.1954317	0.2181104
Cmc1 ENSMUSG00000039163	-0.399417	0.2182907
Fam193a ENSMUSG00000037210	0.1904819	0.2190559
Gas2l3 ENSMUSG00000074802	-0.2974225	0.2198212
Lca5 ENSMUSG00000032258	0.3650893	0.2200291
Gnpat ENSMUSG00000031985	0.1750267	0.220551
Carhsp1 ENSMUSG00000008393	0.1774568	0.220551
Rsrc2 ENSMUSG00000029422	-0.2243388	0.220551
Ogdhl ENSMUSG00000021913	1.2365715	0.2206442
Gm12258 ENSMUSG0000007291	-0.6075633	0.2206442
Phka2 ENSMUSG00000031295	0.317627	0.2206442
Rtf1 ENSMUSG00000027304	-0.1799843	0.2206442
Alkbh8 ENSMUSG00000025899	-0.4115368	0.2217772
Casp7 ENSMUSG00000025076	0.2126042	0.2222111
Ranbp10 ENSMUSG00000037415	0.1736104	0.2222111

Slc25a1 ENSMUSG00000003528	0.1771344	0.222238
Clcc1 ENSMUSG00000027884	-0.206204	0.2225478
Mfsd8 ENSMUSG00000025759	-0.5509583	0.2225478
Cald1 ENSMUSG00000029761	-0.1678774	0.2225478
Fbxl3 ENSMUSG00000022124	-0.2160121	0.2225478
Id2 ENSMUSG00000020644	-0.179587	0.2225478
Dpy30 ENSMUSG00000024067	-0.2317549	0.2225478
Pik3c2a ENSMUSG00000030660	-0.480861	0.2225478
Acod1 ENSMUSG00000022126	0.7151319	0.2225478
Traf1 ENSMUSG00000026875	-0.797684	0.2225478
Sphk2 ENSMUSG00000057342	0.2290732	0.2225478
Rgmb ENSMUSG00000048027	0.220074	0.2225478
Slc8a1 ENSMUSG00000054640	1.8476231	0.2245915
Golgb1 ENSMUSG00000034243	0.2800897	0.2247682
Usp45 ENSMUSG00000040455	-0.3222453	0.2248313
Lmtk3 ENSMUSG00000062044	-0.3514631	0.2249049
Piezo1 ENSMUSG00000014444	0.1973471	0.2249049
Zfp157 ENSMUSG00000036898	-0.545104	0.2249049
Ap4s1 ENSMUSG00000020955	-0.408538	0.2249049
Cop1 ENSMUSG00000040782	-0.1893812	0.2249049
Pds5a ENSMUSG00000029202	-0.2737327	0.2249049
Srp19 ENSMUSG00000014504	-0.2334179	0.2249049
Slain2 ENSMUSG00000036087	-0.2241587	0.2249049
Tuba4a ENSMUSG00000026202	-0.288698	0.2250044
Mex3c ENSMUSG00000037253	-0.2008756	0.2258281
Trp53bp1 ENSMUSG0000004390	-0.2203717	0.2258281
Cep350 ENSMUSG00000033671	0.3556012	0.2258281
Gnas ENSMUSG00000027523	0.2349958	0.2258281
Purb ENSMUSG00000094483	-0.1748398	0.2262552
Strn3 ENSMUSG00000020954	-0.2833644	0.2262552
Fam167a ENSMUSG00000035095	0.7571808	0.2262552
mt-Atp6 ENSMUSG00000064357	-0.6523781	0.2264673
Fosl2 ENSMUSG00000029135	0.1815323	0.2265269
Ms13 ENSMUSG00000031358	-0.2264025	0.2283717
Homez ENSMUSG00000057156	0.3984139	0.2283717
Susd6 ENSMUSG00000021133	0.2199476	0.2283717
Abcb10 ENSMUSG00000031974	0.2408298	0.2283717
Itga7 ENSMUSG00000025348	-0.4259429	0.2288858
Clip3 ENSMUSG00000013921	0.179276	0.2293094
Lag3 ENSMUSG00000030124	0.4897313	0.2302151
Actr6 ENSMUSG00000019948	-0.4333673	0.2311722
Ppig ENSMUSG00000042133	-0.2286638	0.231231
Hcfc1 ENSMUSG00000031386	0.1970537	0.2314258
Mib1 ENSMUSG00000024294	-0.1978411	0.2314661
Zfp97 ENSMUSG00000095990	-1.3101637	0.2314959
Sirt1 ENSMUSG00000020063	-0.3263464	0.2321163
Pnp ENSMUSG00000115338	0.1686286	0.2322318
Hpf1 ENSMUSG00000038005	-0.2243273	0.2323214
Mrgprf ENSMUSG00000031070	0.2208491	0.2323214
Cacna1g ENSMUSG00000020866	0.1669863	0.2326306
Hoxb4 ENSMUSG00000038692	0.5140318	0.2329016
Olfm1 ENSMUSG00000026833	0.2650346	0.23317
Tmem161b ENSMUSG000000357	-0.4943061	0.23317

Klf5 ENSMUSG00000005148	0.2926762	0.23317
Prss53 ENSMUSG00000044139	-1.7258102	0.2337414
Isoc1 ENSMUSG00000024601	0.2388343	0.2345231
Pard3 ENSMUSG00000025812	0.1833978	0.2345231
Denr ENSMUSG00000023106	-0.1658697	0.2345231
Rilp ENSMUSG00000038195	1.3258337	0.2345231
Phldb2 ENSMUSG00000033149	-0.1996469	0.2347531
P4ha1 ENSMUSG00000019916	0.1682496	0.2347635
Senp6 ENSMUSG00000034252	-0.2825374	0.2347635
Trim24 ENSMUSG00000029833	-0.3407152	0.2354972
Gem ENSMUSG00000028214	0.3350316	0.2359044
Grtp1 ENSMUSG00000038515	-0.6289072	0.2360966
Ect2 ENSMUSG00000027699	-0.2347413	0.2361333
Slc38a9 ENSMUSG00000047789	-0.4679991	0.2361333
Prr14l ENSMUSG00000054280	-0.3162184	0.2369282
Mbip ENSMUSG00000021028	-0.4083365	0.237298
Mcts1 ENSMUSG00000000355	-0.3434643	0.2373277
Gemin6 ENSMUSG00000055760	-0.2367911	0.2373277
Rinl ENSMUSG00000051735	-1.254143	0.2377396
Tmx1 ENSMUSG00000021072	-0.1890261	0.2377396
Prkd2 ENSMUSG00000041187	0.2180986	0.2377396
Pcdhga3 ENSMUSG00000104346	1.0081334	0.2377396
Zfp383 ENSMUSG00000099689	-0.4663658	0.2377396
Fras1 ENSMUSG00000034687	0.6349025	0.2377396
Synpo ENSMUSG00000043079	0.1724561	0.2377396
Plekho1 ENSMUSG00000015745	-0.2420249	0.2377396
Plppr3 ENSMUSG00000035835	-0.2616093	0.2377396
Rcan3 ENSMUSG00000059713	0.2674841	0.2377396
Ralgps1 ENSMUSG00000038831	0.9071356	0.2377396
Pex2 ENSMUSG00000040374	-0.2281381	0.2377709
Hist1h2bc ENSMUSG0000001810	-0.3068526	0.2381386
Ppp1r10 ENSMUSG00000039220	0.1679132	0.2381386
Timm29 ENSMUSG00000048429	0.1768425	0.2381659
Gab1 ENSMUSG00000031714	0.2439457	0.2384046
Plekho2 ENSMUSG00000050721	0.1807977	0.2384046
Faim2 ENSMUSG00000023011	2.0643638	0.2385376
Grina ENSMUSG00000022564	0.1720536	0.2385376
Oard1 ENSMUSG00000040771	-0.2285771	0.2385376
Zfp865 ENSMUSG00000074405	0.1889856	0.2385376
Hells ENSMUSG00000025001	-0.2248927	0.2385376
Mocs1 ENSMUSG00000064120	0.2532072	0.2396444
Tada2a ENSMUSG00000018651	-0.2397852	0.2396808
Tti1 ENSMUSG00000027650	0.2221797	0.2396808
Dusp10 ENSMUSG00000039384	-0.2939388	0.2402564
Phf20 ENSMUSG00000038116	-0.1907984	0.2404358
Eml5 ENSMUSG00000051166	-0.871974	0.2404358
Phf11d ENSMUSG00000068245	0.32817	0.2404701
Vps26a ENSMUSG00000020078	-0.2061336	0.2404701
Baalc ENSMUSG00000022296	-0.4719758	0.2404762
Arg1 ENSMUSG00000019987	2.4427832	0.2419547
Uggt2 ENSMUSG00000042104	-0.568453	0.2419547
Fbxo5 ENSMUSG00000019773	-0.2013635	0.2423774
Klf2 ENSMUSG00000055148	0.348287	0.2428521

Caap1 ENSMUSG00000028578	-0.3848365	0.2428521
Ice2 ENSMUSG00000032235	-0.4357505	0.2428521
Pik3ca ENSMUSG00000027665	-0.2092451	0.2428521
Ston1 ENSMUSG00000033855	0.1962632	0.2428521
Zmym1 ENSMUSG00000043872	-0.3392513	0.2428521
Triobp ENSMUSG00000033088	0.1657277	0.2435856
Arhgef25 ENSMUSG00000019467	-0.179619	0.243842
Trim34a ENSMUSG00000056144	-0.4860789	0.2450592
Arrdc3 ENSMUSG00000074794	-0.2692304	0.2450592
Gprc5b ENSMUSG00000008734	0.2052226	0.2450592
Lpar6 ENSMUSG00000033446	-0.4450622	0.2450592
Lipe ENSMUSG00000003123	0.3506361	0.2450895
Fam241a ENSMUSG00000050549	0.3465595	0.2450895
Fbxl15 ENSMUSG00000025226	0.2191356	0.2450895
Deptor ENSMUSG00000022419	-0.4756581	0.2450895
Sec63 ENSMUSG00000019802	-0.1793445	0.2464977
Pcf11 ENSMUSG00000041328	-0.2390127	0.2464977
Lypla2 ENSMUSG00000028670	-0.1685106	0.2464977
Tardbp ENSMUSG00000041459	-0.1652836	0.2464977
Abca5 ENSMUSG00000018800	-0.4862835	0.2472453
Ralgds ENSMUSG00000026821	0.169881	0.2473471
Ap1s3 ENSMUSG00000054702	1.1946342	0.2473471
Notch2 ENSMUSG00000027878	0.1719284	0.2473471
Raph1 ENSMUSG00000026014	0.2300264	0.2473471
Prkcd ENSMUSG00000021948	0.1757012	0.2473685
Ifi202b ENSMUSG00000026535	-0.2095362	0.2473685
Papola ENSMUSG00000021111	-0.1925784	0.2473685
Luc7l3 ENSMUSG00000020863	-0.2194068	0.2485149
Ubfd1 ENSMUSG00000030870	0.1672182	0.2485149
Gigyf2 ENSMUSG00000048000	-0.2041776	0.2488683
Ufsp2 ENSMUSG00000031634	-0.2381469	0.2492124
Tram1 ENSMUSG00000025935	-0.2152309	0.2492725
Slc25a22 ENSMUSG00000019082	0.1715755	0.2494951
Wdr5b ENSMUSG00000034379	-0.427554	0.2496656
Prpf8 ENSMUSG00000020850	0.1778877	0.2496656
Gnat2 ENSMUSG00000009108	-0.7340212	0.2498925
Rab22a ENSMUSG00000027519	0.1755357	0.2499007
Top3a ENSMUSG00000002814	0.2120858	0.2500305
Cmtm6 ENSMUSG00000032434	0.1849908	0.2503032
Ncapg2 ENSMUSG00000042029	-0.2420041	0.2504201
Zfp112 ENSMUSG00000052675	0.5339111	0.2513246
Usp7 ENSMUSG00000022710	-0.1750626	0.2513744
Foxk1 ENSMUSG00000056493	0.1769434	0.2521356
Rbm47 ENSMUSG00000070780	0.59622	0.2534944
Srcap ENSMUSG00000053877	0.4695832	0.2537529
Sik2 ENSMUSG00000037112	0.326642	0.2537642
Cox5a ENSMUSG00000000088	0.1627058	0.2538061
Prkca ENSMUSG00000050965	-0.2316136	0.2538061
Nras ENSMUSG00000027852	-0.17011	0.2538061
Acaa1a ENSMUSG00000036138	0.1718967	0.2538061
Tmem175 ENSMUSG0000001349	-0.2676651	0.2538061
Ppip5k2 ENSMUSG00000040648	-0.3564037	0.2538061
Cdyl ENSMUSG00000059288	0.2354773	0.2538061

Vps11 ENSMUSG00000032127	0.1765879	0.2538061
Qsox2 ENSMUSG00000036327	0.2213861	0.2538061
Ccdc148 ENSMUSG00000036641	1.9042302	0.2544279
Fancb ENSMUSG00000047757	-0.4479683	0.2544975
Rbm34 ENSMUSG00000033931	-0.2085672	0.2551009
Ttc3 ENSMUSG00000040785	-0.212652	0.2551009
Fam228b ENSMUSG00000050545	-1.9641677	0.255835
Nr3c1 ENSMUSG00000024431	-0.2525492	0.2560897
Arid5b ENSMUSG00000019947	0.1739694	0.2572097
Rnf24 ENSMUSG00000048911	0.3517859	0.2572187
Sptbn4 ENSMUSG00000011751	-0.874116	0.2572187
Specc1 ENSMUSG00000042331	0.2021826	0.2573799
Ctsc ENSMUSG00000030560	1.2955033	0.2573799
Ank2 ENSMUSG00000032826	0.3304765	0.2574231
Zfp46 ENSMUSG00000051351	0.2077951	0.2581039
Psm3 ENSMUSG00000060073	-0.1633538	0.2581039
Aurkaip1 ENSMUSG00000065990	-0.1948362	0.2583091
Eps15 ENSMUSG00000028552	-0.2259813	0.2583866
Pfn2 ENSMUSG00000027805	-0.3155989	0.2588007
Clasrp ENSMUSG00000061028	-0.181656	0.2595885
Nsf ENSMUSG00000034187	0.1973035	0.2605591
Rbm7 ENSMUSG00000042396	-0.2314887	0.2605591
Adss ENSMUSG00000015961	-0.1801897	0.2605591
Gse1 ENSMUSG00000031822	0.227241	0.2605591
Wfdc3 ENSMUSG00000076434	1.1354161	0.2607211
Thra ENSMUSG00000058756	0.1677248	0.2607211
Lss ENSMUSG00000033105	0.1786032	0.2609004
Agpat3 ENSMUSG00000001211	0.2016167	0.2609004
Lpcat1 ENSMUSG00000021608	0.1551086	0.2609004
Rasa2 ENSMUSG00000032413	-0.5110825	0.2609716
Tmc6 ENSMUSG00000025572	-0.3017181	0.2613392
Tent4a ENSMUSG00000034575	0.1709073	0.2615011
Lrrc20 ENSMUSG00000037151	-0.3016086	0.2618506
Znhit6 ENSMUSG00000074182	-0.2279207	0.2618506
Cfap69 ENSMUSG00000040473	-0.4353788	0.2618506
Sh3bp1 ENSMUSG00000022436	-0.277533	0.2627176
Cntrob ENSMUSG00000032782	-0.2402951	0.2629418
Nupr1 ENSMUSG00000030717	0.2191535	0.2631722
Plekhh1 ENSMUSG00000060716	0.6416533	0.2638809
Fcf1 ENSMUSG00000021243	-0.2714735	0.2638896
Dync1h1 ENSMUSG00000018707	0.1696174	0.2643643
Mphosph10 ENSMUSG00000030535	-0.2788197	0.2646804
Maob ENSMUSG00000040147	-1.7287083	0.2648415
Eny2 ENSMUSG00000022338	-0.1934229	0.2648418
Fcho2 ENSMUSG00000041685	-0.2917624	0.2648591
Gper1 ENSMUSG00000053647	-0.3746875	0.2653464
AW146154 ENSMUSG00000007415	-1.5185166	0.2653464
Nkapd1 ENSMUSG00000059820	-0.2619679	0.2653464
Setdb2 ENSMUSG00000071350	0.2971858	0.2663647
Kirrel3 ENSMUSG00000032036	-1.3264733	0.2665369
Gm2115 ENSMUSG00000097789	-0.2084415	0.2665369
Col8a1 ENSMUSG00000068196	-0.19441	0.266567
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Ccdc74a ENSMUSG00000041617	-0.2996249	0.266567
Ptges ENSMUSG00000050737	0.1747312	0.2667838
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Abhd15 ENSMUSG00000000686	-1.021494	0.2675405
Slc5a6 ENSMUSG00000006641	-0.2420565	0.2675405
Caml ENSMUSG00000021501	0.183898	0.2678932
Vwa1 ENSMUSG00000042116	1.15135	0.2678932
Zfp119b ENSMUSG00000062101	-0.9402281	0.2680856
Mpp6 ENSMUSG00000038388	-0.2073675	0.2682074
Tmem60 ENSMUSG00000045435	-0.3468056	0.2691983
Mbtps1 ENSMUSG00000031835	0.1641129	0.2692096
Car9 ENSMUSG00000028463	-0.7785613	0.2698709
Efhc1 ENSMUSG00000041809	1.9022908	0.2704023
Lrp1 ENSMUSG00000040249	0.1822967	0.2707372
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Ramp3 ENSMUSG00000041046	-0.8703969	0.273449
Rnf6 ENSMUSG00000029634	-0.2222942	0.274365
Rnd3 ENSMUSG00000017144	-0.2200016	0.2749087
Lama3 ENSMUSG00000024421	0.8194919	0.2762481
Spata33 ENSMUSG00000048478	0.4913166	0.2762481
Zfp579 ENSMUSG00000051550	-0.3085784	0.2767584
Terf1 ENSMUSG00000025925	-0.370926	0.2768588
Cers1 ENSMUSG00000087408	-0.5520032	0.2769502
Copa ENSMUSG00000026553	0.1583559	0.2775903
Tbk1 ENSMUSG00000020115	0.1918008	0.2775903
Tent5b ENSMUSG00000046694	-0.2473326	0.2779121
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Gns ENSMUSG00000034707	0.1651346	0.2779121
Tex30 ENSMUSG00000026049	-0.3117157	0.2781282
Ywhag ENSMUSG00000051391	0.1598153	0.2784905
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Dcaf7 ENSMUSG00000049354	0.1696645	0.2799802
Capn10 ENSMUSG00000026270	0.2529374	0.2799802
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C77080 ENSMUSG00000050390	0.1763623	0.2801671
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Sufu ENSMUSG00000025231	0.161146	0.2805659
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Diaph2 ENSMUSG00000034480	-0.5466008	0.2811622
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Fam76b ENSMUSG00000037808	-0.2781807	0.2811622
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Syna ENSMUSG00000085957	-1.0595984	0.282408
Ifi27 ENSMUSG00000064215	-0.1873854	0.282408
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Hirip3 ENSMUSG00000042606	-0.166403	0.2846387
Aifm3 ENSMUSG00000022763	-1.3056937	0.2846387
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Zbtb40 ENSMUSG00000060862	0.2208902	0.2852041
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Rab21 ENSMUSG00000020132	0.1524924	0.2855456
Tspyl2 ENSMUSG00000041096	-0.1975896	0.2855456
Panx2 ENSMUSG00000058441	-1.5854539	0.2855456
Ofd1 ENSMUSG00000040586	-0.3842562	0.2856163
Pdgfa ENSMUSG00000025856	-0.257489	0.2856163
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Rftn1 ENSMUSG00000039316	0.3203926	0.2858704
Patl1 ENSMUSG00000046139	0.1812533	0.2859451
Eif4e ENSMUSG00000028156	-0.1823585	0.2859451
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Ndst1 ENSMUSG00000054008	0.206701	0.2859451
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Trim21 ENSMUSG00000030966	0.2253702	0.2859451
Cox7b ENSMUSG00000031231	-0.2813836	0.2859451
Socs3 ENSMUSG00000053113	0.1636549	0.2864418
Kdm4a ENSMUSG00000033326	0.1685227	0.2865241
Chd8 ENSMUSG00000053754	-0.1672437	0.2867899
Lrrk2 ENSMUSG00000036273	-0.3653605	0.2867899
Alcam ENSMUSG00000022636	-0.3235007	0.2867899
Btf314 ENSMUSG00000028568	-0.217743	0.2867899
Tep1 ENSMUSG00000006281	0.245805	0.2873679
Cox20 ENSMUSG00000026500	-1.0559117	0.2876663
Jph3 ENSMUSG00000025318	-1.1558743	0.2877964
Dixdc1 ENSMUSG00000032064	-0.3181287	0.2877964
Hoxa5 ENSMUSG00000038253	-0.585909	0.2877964
Mios ENSMUSG00000042447	-0.2967721	0.2880396
Cox18 ENSMUSG00000035505	0.1929085	0.2883378
Ociad1 ENSMUSG00000029152	0.1592937	0.2887582
Sept5 ENSMUSG00000072214	-0.234533	0.2891171
Crnk11 ENSMUSG00000001767	-0.2001401	0.2895027
Per3 ENSMUSG00000028957	-0.4011994	0.2895027
Tjp2 ENSMUSG00000024812	0.1609659	0.2906358
Tgfbr2 ENSMUSG00000032440	0.1752424	0.2906411
Gm14391 ENSMUSG0000007890	2.1329575	0.2906411
Sap130 ENSMUSG00000024260	0.1710955	0.2906411
Msantd1 ENSMUSG00000051246	0.9073644	0.2906411
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Utp20 ENSMUSG00000004356	-0.1724592	0.2920231
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Mllt6 ENSMUSG00000038437	0.1619164	0.2926557
Yod1 ENSMUSG00000046404	-0.6582959	0.2927483
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Spint1 ENSMUSG00000027315	0.4875509	0.2933691
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Kcnj2 ENSMUSG00000041695	1.0186076	0.2946198
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Ccar2 ENSMUSG00000033712	0.1638993	0.2981691
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Cyp51 ENSMUSG00000001467	0.1558024	0.301725
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Stom ENSMUSG00000026880	0.1579019	0.3025072
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Pepd ENSMUSG00000063931	0.2105753	0.3028648
Nup50 ENSMUSG00000016619	0.1581134	0.3028648
Pdp2 ENSMUSG00000048371	0.231096	0.3028648
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Pno1 ENSMUSG00000020116	-0.2198189	0.3029375
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Pgpep1 ENSMUSG00000056204	-0.201346	0.3049068
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Lanc1 ENSMUSG00000026000	0.2001652	0.3099017
Dusp1 ENSMUSG00000024190	0.2614824	0.3099326
Nedd4 ENSMUSG00000024589	0.2026283	0.310237
Cntrl ENSMUSG00000057110	-0.2897268	0.3103699
Zfp599 ENSMUSG00000062794	-0.5509225	0.3108508
Nfyb ENSMUSG00000020248	-0.219707	0.3109766
Reck ENSMUSG00000028476	0.5287904	0.3113537
Parp3 ENSMUSG00000023249	0.1468824	0.3120098
Wasf2 ENSMUSG00000028868	0.1561789	0.3126059
Hnrnpa3 ENSMUSG00000059005	-0.1682041	0.3130377
Hsp90ab1 ENSMUSG0000002394	0.1444701	0.3130787
Vegfa ENSMUSG00000023951	0.165461	0.3132071
Lamp3 ENSMUSG00000041247	-1.332714	0.3134861
Sav1 ENSMUSG00000021067	0.1997059	0.3134861
Rpp40 ENSMUSG00000021418	-0.3533565	0.3136827
Tgtp1 ENSMUSG00000078922	0.4728756	0.3136827
Slc25a42 ENSMUSG00000002346	0.2929427	0.3139497
Krba1 ENSMUSG00000042810	-0.3335824	0.3139497
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Bsdc1 ENSMUSG00000040859	0.1939657	0.3150307
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Pik3cd ENSMUSG00000039936	0.2779372	0.316046
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Rnf223 ENSMUSG00000110404	-0.7689084	0.3184523
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Rabep1 ENSMUSG00000020817	-0.1985088	0.3190977
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Gm10053 ENSMUSG0000005892	-0.2830612	0.3197989
Cdkn2c ENSMUSG00000028551	-0.1581054	0.3201501
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Nbeal2 ENSMUSG00000056724	0.6239688	0.320252
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Pofut1 ENSMUSG00000046020	0.1830316	0.3204363
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Rilp1 ENSMUSG00000029392	-0.2419308	0.3219455
Iqgap3 ENSMUSG00000028068	0.158213	0.3219455
B9d2 ENSMUSG00000063439	-0.2788895	0.3221013
Gpr161 ENSMUSG00000040836	0.2403379	0.3221013
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Stk32c ENSMUSG00000015981	0.4382178	0.3223867
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Sugt1 ENSMUSG00000022024	-0.1702834	0.3224471
Dio3 ENSMUSG00000075707	-0.8401346	0.3230108
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Pck2 ENSMUSG00000040618	0.1565064	0.3230108
Bst1 ENSMUSG00000029082	1.0020611	0.3232987
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Kif9 ENSMUSG00000032489	1.4533408	0.3237965
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Cep104 ENSMUSG00000039523	0.1582618	0.3264806
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Hsd1 ENSMUSG00000034189	0.1982657	0.326941
Larp7 ENSMUSG00000027968	-0.1551133	0.326941
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Wrn ENSMUSG00000031583	-0.3156238	0.3290503
Cyp2t4 ENSMUSG00000078787	1.3967163	0.329266
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Rfx7 ENSMUSG00000037674	0.2684509	0.3301168
Slc7a4 ENSMUSG00000022756	-1.509225	0.3301168
Zbtb38 ENSMUSG00000040433	-0.3032283	0.3301843
Cdk18 ENSMUSG00000026437	-0.2231525	0.3301843
Rps6kb1 ENSMUSG00000020516	-0.1980783	0.3301843
Rab3b ENSMUSG00000003411	0.4341581	0.3302264
Fndc10 ENSMUSG00000074738	0.3239962	0.3302466
Sdhaf3 ENSMUSG00000042505	-0.5752122	0.3302466
Lrrc29 ENSMUSG00000041679	-0.449193	0.3302466
Gm14326 ENSMUSG0000007886	-0.4895687	0.3303248
Rad17 ENSMUSG00000021635	-0.2701457	0.3303248
Vgll4 ENSMUSG00000030315	0.1714116	0.3305506
Adamts1 ENSMUSG00000066113	0.4821444	0.3305506
Nxph3 ENSMUSG00000046719	-1.2315707	0.3305506
Arhgef33 ENSMUSG00000054903	-1.7434501	0.3305506
Chmp5 ENSMUSG00000028419	-0.1738737	0.3305506
Elov13 ENSMUSG00000038754	-1.1731693	0.3305506
Pcdhb20 ENSMUSG00000046191	-0.9252698	0.3305506
Mzf1 ENSMUSG00000030380	-0.5744983	0.3306471
Fmo5 ENSMUSG00000028088	1.1137741	0.3306471
Gent1 ENSMUSG00000038843	-0.5064246	0.3306471
Bicra ENSMUSG00000070808	0.2079797	0.3308487
Diaph3 ENSMUSG00000022021	-0.2417572	0.3308487
Pick1 ENSMUSG00000068206	-0.3529728	0.3312315
Tnik ENSMUSG00000027692	1.1110534	0.3312315
Tecta ENSMUSG00000037705	-1.3622333	0.3312315
P3h1 ENSMUSG00000028641	0.1560718	0.3312315
Zer1 ENSMUSG00000039686	0.1864043	0.3312682
Tmem173 ENSMUSG0000002434	0.1771451	0.3316032
Pdcd1 ENSMUSG00000026285	0.6955469	0.3318376
Ezr ENSMUSG00000052397	0.1471564	0.3318376
Cd302 ENSMUSG00000060703	-0.3943735	0.3321161
Klh18 ENSMUSG00000054792	0.2240403	0.3353786
Pcmt1 ENSMUSG00000019795	-0.1458554	0.335382
Kdr ENSMUSG00000062960	1.5173361	0.33539
Dlx1 ENSMUSG00000041911	0.2296814	0.33539
Slc10a1 ENSMUSG00000021135	-1.7482363	0.33539
Tmtc4 ENSMUSG00000041594	0.3339384	0.3355368
Egr3 ENSMUSG00000033730	-0.6110553	0.3355368
Dusp2 ENSMUSG00000027368	-0.5884679	0.3355368
Apex2 ENSMUSG00000025269	-0.1857125	0.3355368
Mipep ENSMUSG00000021993	0.2530867	0.336044

Tipin ENSMUSG00000032397	-0.1697225	0.336044
Gm9958 ENSMUSG00000054945	0.7459967	0.3363849
Grn ENSMUSG00000034708	0.147945	0.3373119
Dhx58 ENSMUSG00000017830	0.1482188	0.3376975
Zbtb37 ENSMUSG00000043467	-0.4800122	0.3377876
Dcun1d1 ENSMUSG00000027708	-0.2753728	0.3377876
Tmem126b ENSMUSG000000306	-0.2874862	0.3377876
Ube2v2 ENSMUSG00000022674	-0.4405188	0.3377876
Gm9821 ENSMUSG00000095332	-0.7795146	0.3382209
C1s2 ENSMUSG00000079343	-1.8886547	0.3382209
Arih1 ENSMUSG00000025234	-0.1739449	0.3382209
Efemp1 ENSMUSG00000020467	0.1967655	0.3383331
Ankle1 ENSMUSG00000046295	-0.269238	0.3383372
Tmem74b ENSMUSG0000004436	-1.3406316	0.3383806
Gys1 ENSMUSG0000003865	0.1498481	0.3387583
Plag12 ENSMUSG00000051413	0.2115777	0.3387583
Fancd2 ENSMUSG00000034023	-0.2621987	0.3387583
Polr1a ENSMUSG00000049553	0.151737	0.3387583
Scaf4 ENSMUSG00000022983	0.1533617	0.3387583
Rbm43 ENSMUSG00000036249	0.1930038	0.3387583
Fbxo41 ENSMUSG00000047013	0.7257333	0.3387583
Map3k20 ENSMUSG0000000408	-0.2090059	0.3387583
Fis1 ENSMUSG00000019054	-0.174168	0.3387583
Lonp1 ENSMUSG00000041168	0.1458296	0.3387583
Plekhg3 ENSMUSG00000052609	-0.1577826	0.3387583
Tmlhe ENSMUSG00000079834	-0.5482512	0.3389297
Hip1 ENSMUSG00000039959	0.1764556	0.3389297
Ube2g1 ENSMUSG00000020794	-0.1821119	0.3391253
Acap3 ENSMUSG00000029033	-0.1659648	0.3391352
Zfp78 ENSMUSG00000055150	-0.8254873	0.3391352
Gfod1 ENSMUSG00000051335	0.2493109	0.3394596
Fbxw8 ENSMUSG00000032867	0.1513576	0.3394596
Hspa1b ENSMUSG00000090877	0.1482467	0.3408799
Relt ENSMUSG00000008318	-0.2583793	0.3411612
Pcnp ENSMUSG00000071533	-0.1693119	0.3411612
Slc39a14 ENSMUSG0000002209	0.1542071	0.3411612
Tma16 ENSMUSG00000025591	-0.1982573	0.3411612
Abraxas2 ENSMUSG0000003096	-0.2460248	0.3411612
Ankrd24 ENSMUSG00000054708	-0.3176272	0.3411612
Slx4ip ENSMUSG00000027281	-0.4327532	0.3411612
Nid2 ENSMUSG00000021806	0.1740266	0.3411612
Fam92a ENSMUSG00000028218	-0.235065	0.3411612
Map3k7c ENSMUSG0000002561	1.2713044	0.3411612
Mybl1 ENSMUSG00000025912	-0.6047971	0.3415046
Rbm20 ENSMUSG00000043639	-0.8641231	0.3415075
Crot ENSMUSG00000003623	-0.2361523	0.3419394
Cip2a ENSMUSG00000033031	-0.2376666	0.3419394
Cic ENSMUSG00000005442	0.1480691	0.3425622
Rnasel ENSMUSG00000066800	0.448785	0.3428952
Prmt3 ENSMUSG00000030505	-0.1819035	0.3428952
Map2k1 ENSMUSG00000004936	0.1456639	0.3431855
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Tgif1 ENSMUSG00000047407	0.165265	0.3435924

Mgat5 ENSMUSG00000036155	0.5715537	0.3435924
Ikzf2 ENSMUSG00000025997	-0.8400847	0.3435924
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Marc2 ENSMUSG00000073481	0.1692556	0.3435924
Fndc3a ENSMUSG00000033487	0.2904455	0.3435924
Carm1 ENSMUSG00000032185	0.1577026	0.3436178
Sned1 ENSMUSG00000047793	-0.2582899	0.3448743
Rabggtb ENSMUSG00000038975	-0.161997	0.3449011
Hist1h3i ENSMUSG00000101972	-0.9286305	0.345
Uba1 ENSMUSG00000001924	0.1441703	0.345
Phex ENSMUSG00000057457	-0.9951236	0.345
Dok3 ENSMUSG00000035711	-0.4309657	0.345
Col4a1 ENSMUSG00000031502	-0.1506696	0.345
Fasn ENSMUSG00000025153	0.1476885	0.345
Dsel ENSMUSG00000038702	-0.4653276	0.3453304
Ap1g1 ENSMUSG00000031731	-0.1823729	0.3455609
Naa50 ENSMUSG00000022698	-0.1450819	0.345808
Trip12 ENSMUSG00000026219	-0.1591975	0.345808
Zdhhc21 ENSMUSG00000028403	-0.3098562	0.3458261
Notch4 ENSMUSG00000015468	0.7131368	0.346323
Pgam1 ENSMUSG00000011752	0.1438612	0.346323
Erc5 ENSMUSG00000026048	-0.2645761	0.3473242
Canx ENSMUSG00000020368	-0.1439494	0.3477414
Scarb2 ENSMUSG00000029426	0.143027	0.3480717
Cenpk ENSMUSG00000021714	-0.4512274	0.348101
Gosr2 ENSMUSG00000020946	0.1407356	0.3486019
Cubn ENSMUSG00000026726	-0.8473874	0.3489213
Chmp4b ENSMUSG00000038467	0.1399702	0.3505533
Urgcp ENSMUSG00000049680	0.1974526	0.3505533
Kif15 ENSMUSG00000036768	-0.2780082	0.3506232
Tmem251 ENSMUSG0000004667	-0.2155067	0.3507578
Zfp707 ENSMUSG00000034429	-0.2594929	0.3512495
Cdc40 ENSMUSG00000038446	-0.2099963	0.3512495
Bet1 ENSMUSG00000032757	-0.2017912	0.3512495
Metap1d ENSMUSG00000041921	-0.200724	0.3515059
Extl3 ENSMUSG00000021978	0.1397852	0.3515059
Pom121 ENSMUSG00000053293	0.1743663	0.3515059
Apbb1ip ENSMUSG00000026786	0.162094	0.3515059
Pde1b ENSMUSG00000022489	0.5879071	0.3515059
Chac1 ENSMUSG00000027313	0.2379057	0.3515059
Cog8 ENSMUSG00000031916	0.155908	0.3515059
Unc5c ENSMUSG00000059921	-0.6824455	0.3517042
Ubp2 ENSMUSG00000028433	0.1476878	0.352317
Cmklr1 ENSMUSG00000042190	1.2141501	0.352317
Dync1i2 ENSMUSG00000027012	-0.154844	0.352317
Kans11 ENSMUSG00000026004	0.4883245	0.352317
Nup214 ENSMUSG00000001855	0.1618288	0.352317
Rmdn3 ENSMUSG00000070730	0.175051	0.352317
Impact ENSMUSG00000024423	-0.2468294	0.352317
Thap1 ENSMUSG00000037214	-0.2722726	0.352317
Dir2 ENSMUSG00000022848	0.231605	0.353001
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Atad5 ENSMUSG00000017550	0.3964064	0.3540237



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Socs4 ENSMUSG00000048379	-0.2546773	0.3547343
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Hnrnpa1 ENSMUSG00000046434	-0.1405272	0.3558846
Dnajc18 ENSMUSG00000024350	-0.2189641	0.3558846
Stau1 ENSMUSG00000039536	0.1594166	0.3559709
Chordc1 ENSMUSG00000001774	-0.205417	0.3566206
Zfp710 ENSMUSG00000048897	0.2068615	0.3566206
Anln ENSMUSG00000036777	-0.1857503	0.3568784
Pdk4 ENSMUSG00000019577	-0.8478623	0.3568784
Ube3b ENSMUSG00000029577	0.1461025	0.3571804
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Colec12 ENSMUSG00000036103	-0.1530882	0.3573946
Prss50 ENSMUSG00000048752	-1.3954926	0.3573946
Gars ENSMUSG00000029777	0.1433071	0.3573946
Slc40a1 ENSMUSG00000025993	-0.8955371	0.3578755
Galnt7 ENSMUSG00000031608	-0.2606842	0.3592649
Tbc1d22b ENSMUSG0000004220	0.1945536	0.3597634
Psd ENSMUSG00000037126	0.1563084	0.3598767
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Xkr5 ENSMUSG00000039814	-0.5143436	0.3602096
Cbx3 ENSMUSG00000029836	-0.1828865	0.3603174
Nme2 ENSMUSG00000020857	-0.5825661	0.3604196
Psmg2 ENSMUSG00000024537	-0.1950345	0.360746
Cxadr ENSMUSG00000022865	-0.8175371	0.3619848
Zfp239 ENSMUSG00000042097	-0.3607395	0.3622057
Foxred1 ENSMUSG00000039048	0.1696917	0.3626696
Paip1 ENSMUSG00000025451	-0.1609809	0.3628183
Lgalsl ENSMUSG00000042363	-0.3139441	0.3636097
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Sh3pxd2b ENSMUSG0000004071	0.155485	0.3636097
Kif21a ENSMUSG00000022629	-0.5518728	0.3636097
Efr3a ENSMUSG00000015002	-0.1878037	0.3639363
Shc1 ENSMUSG00000042626	0.1574082	0.3639363
Nfil3 ENSMUSG00000056749	0.1540875	0.3639363
Emp2 ENSMUSG00000022505	0.140196	0.3639363
Ccr10 ENSMUSG00000044052	1.6020405	0.3639363
Myrf ENSMUSG00000036098	-0.6553864	0.3639363
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Bok ENSMUSG00000026278	-0.1556109	0.3643696
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Myef2 ENSMUSG00000027201	-0.1989751	0.3645223
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E2f8 ENSMUSG00000046179	0.2042378	0.3660835
Milt1 ENSMUSG00000053192	-0.2008213	0.3660835
Pgm2 ENSMUSG00000025791	0.1434127	0.3661802
Cfp ENSMUSG00000001128	-0.3650434	0.3663407
Fbxo7 ENSMUSG00000001786	0.2393941	0.3665507
Arhgap20 ENSMUSG0000005319	1.5165017	0.3670296
Slc25a24 ENSMUSG00000040322	-0.155001	0.3673552
Gm14322 ENSMUSG0000007886	-1.5800154	0.3673552
Ints6 ENSMUSG00000035161	-0.2245732	0.3673552
Irgq ENSMUSG00000041037	0.1683686	0.3679252
Tbc1d2 ENSMUSG00000039813	0.9960754	0.3679396
Orai2 ENSMUSG00000039747	0.288832	0.3681518
Nanog ENSMUSG00000012396	1.0535528	0.3685734
Spry1 ENSMUSG00000037211	-0.3571976	0.3685734
Tnfrsf22 ENSMUSG00000010751	-0.4023998	0.3685734
Syne3 ENSMUSG00000054150	0.1792912	0.3686464
Nr1d1 ENSMUSG00000020889	0.2372041	0.3692444
Ccdc50 ENSMUSG00000038127	-0.173955	0.3694406
Pkp2 ENSMUSG00000041957	-0.187584	0.3694406
Kenk4 ENSMUSG00000024957	-1.0934623	0.3698545
Dnaja1 ENSMUSG00000028410	-0.1390951	0.3699082
Cep83 ENSMUSG00000020024	-0.2516006	0.3699082
Large1 ENSMUSG00000004383	-0.188034	0.3702129
Prr7 ENSMUSG00000034686	-0.2312029	0.3702129
Gm17655 ENSMUSG0000009096	-1.590091	0.3710825
Phf2 ENSMUSG00000038025	0.1566561	0.371441
Nectin2 ENSMUSG00000062300	0.1413681	0.3715661
Tgfbrap1 ENSMUSG00000070935	0.2008726	0.3719783
Cadm1 ENSMUSG00000032076	-0.2283158	0.3722878
Tubg2 ENSMUSG00000045007	0.9993977	0.3723377
Ifi2712b ENSMUSG00000021208	-1.4395186	0.3731325
Gli3 ENSMUSG00000021318	0.1635315	0.3731325
Orc6 ENSMUSG00000031697	-0.1636174	0.3731325
Ptgir ENSMUSG00000043017	0.2465484	0.3731325
Skp1a ENSMUSG00000036309	-0.1511614	0.3731325
Ippk ENSMUSG00000021385	-0.2225976	0.3731325
Lrrc49 ENSMUSG00000047766	-0.3054297	0.3731325
Neil1 ENSMUSG00000032298	0.3025124	0.3731325
Zgrf1 ENSMUSG00000051278	-0.3433231	0.3731325
Lonrf3 ENSMUSG00000016239	-1.1963779	0.3731325
Cbs ENSMUSG00000024039	-0.5569056	0.3731325
Stk3 ENSMUSG00000022329	-0.2994284	0.3731325
Nhs12 ENSMUSG00000079481	-0.7367318	0.3731325
Sel11 ENSMUSG00000020964	0.165822	0.3731325
Lage3 ENSMUSG00000015289	-0.181005	0.3731325
Ttc14 ENSMUSG00000027677	-0.3022983	0.3752006
Wdfy3 ENSMUSG00000043940	0.2473725	0.3754288
Sema4f ENSMUSG00000000627	0.549395	0.3754288
Stxbp4 ENSMUSG00000020546	-0.4653085	0.3755653
Sema3b ENSMUSG00000057969	0.7872556	0.3756097
Fcgr4 ENSMUSG00000059089	1.1209587	0.3761968
Dcdc2b ENSMUSG00000078552	-0.6539992	0.3768649

Itm2b ENSMUSG00000022108	0.1390356	0.3768649
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Vps41 ENSMUSG00000041236	-0.2428417	0.3768649
Tpr ENSMUSG00000006005	-0.1847608	0.3768649
Tbcel ENSMUSG00000037287	0.1828658	0.3768649
Trim2 ENSMUSG00000027993	-0.3046173	0.3768649
Tut7 ENSMUSG00000035248	0.1816549	0.3768649
Mroh8 ENSMUSG00000074627	1.6033124	0.3768649
Tmbim6 ENSMUSG00000023010	0.1361386	0.3768649
C2cd4c ENSMUSG00000045912	-0.7019769	0.3768649
Zfp963 ENSMUSG00000092260	-0.5736171	0.3768649
Klc3 ENSMUSG00000040714	0.5891424	0.3768649
Slc35f5 ENSMUSG00000026342	0.2366199	0.3768649
Ogdh ENSMUSG00000020456	0.1479956	0.3768649
Zhx1 ENSMUSG00000022361	-0.545963	0.3768649
Unc119b ENSMUSG00000046562	0.1541186	0.3768649
Inpp5e ENSMUSG00000026925	0.205961	0.3768649
Gxylt1 ENSMUSG00000036197	-0.2021059	0.3768881
Gm14137 ENSMUSG0000005592	0.4563216	0.3770504
Ctdp1 ENSMUSG00000033323	0.1555037	0.3779651
Guca1b ENSMUSG00000023979	-0.6913036	0.3782252
Hyls1 ENSMUSG00000050555	-0.2663087	0.3782252
Camsap1 ENSMUSG00000026932	0.151982	0.3782252
Kras ENSMUSG00000030265	-0.1644317	0.3782252
Ptp4a2 ENSMUSG00000028788	-0.1403408	0.3782252
Dnajc14 ENSMUSG00000025354	0.1553199	0.3782252
Pknox2 ENSMUSG00000035934	0.5542443	0.3782252
Kat6a ENSMUSG00000031540	0.2069025	0.3782252
Sh3tc1 ENSMUSG00000036553	0.7636236	0.3782252
Bgn ENSMUSG00000031375	0.1328314	0.3782252
Col4a6 ENSMUSG00000031273	0.1783765	0.3782252
Uso1 ENSMUSG00000029407	-0.1781388	0.3782556
Zfp143 ENSMUSG00000061079	-0.3086963	0.3785858
Camk2n2 ENSMUSG00000051140	0.2705272	0.3790308
Appl1 ENSMUSG00000040760	-0.2485883	0.3790308
Snx27 ENSMUSG00000028136	0.1575669	0.3807232
Stk38l ENSMUSG00000001630	0.2211495	0.3814121
Cnksr1 ENSMUSG00000028841	0.7436504	0.3814121
Arl14ep ENSMUSG00000027122	-0.2023894	0.3816813
Dcakd ENSMUSG00000020935	0.1433561	0.3817993
Plekhf1 ENSMUSG00000074170	0.1548126	0.3819069
Son ENSMUSG00000022961	-0.166382	0.3819069
Pnpla2 ENSMUSG00000025509	0.212054	0.3819421
Nup93 ENSMUSG00000032939	0.1395765	0.3819421
Lzts2 ENSMUSG00000035342	0.1398203	0.3819421
Frg1 ENSMUSG00000031590	-0.1695223	0.3826103
Tm6sf2 ENSMUSG00000036151	-0.5019106	0.3826103
5730455P16Rik ENSMUSG00000	-0.2221586	0.3826103
Usp22 ENSMUSG00000042506	0.162967	0.3828262
Pcsk6 ENSMUSG00000030513	0.4930827	0.3828364
Herc1 ENSMUSG00000038664	-0.2278064	0.3828364
Zfp361l ENSMUSG00000021127	0.165284	0.3830394
Prdm10 ENSMUSG00000042496	0.3053635	0.3839417

Kctd6 ENSMUSG00000021752	0.2958978	0.3846206
Ifnar1 ENSMUSG00000022967	0.1547382	0.3846206
Zfp944 ENSMUSG00000033972	0.4469775	0.3846206
Arhgef39 ENSMUSG00000051517	-0.2121507	0.3846206
Rgs10 ENSMUSG00000030844	-0.4204521	0.3855192
Atp6v0c ENSMUSG00000024121	0.140107	0.3859936
Siah2 ENSMUSG00000036432	0.1897579	0.3867739
Ift52 ENSMUSG00000017858	0.2035247	0.3867739
9330161L09Rik ENSMUSG000000	0.9596324	0.3867739
Prpf4b ENSMUSG00000021413	-0.2106559	0.387032
Magoh ENSMUSG00000028609	-0.2074394	0.3889364
Nudt12 ENSMUSG00000024228	-0.6357966	0.3892847
Cnot3 ENSMUSG00000035632	0.142392	0.3892847
Rabggt1 ENSMUSG00000040472	-0.2051147	0.390021
Nt5dc1 ENSMUSG00000039480	-0.4436295	0.390021
Scx ENSMUSG00000034161	-0.3037526	0.390021
Taf9b ENSMUSG00000047242	-0.5401282	0.3900283
Bhlhb9 ENSMUSG00000072964	-0.285013	0.3900847
Cabin1 ENSMUSG00000020196	0.1388886	0.3900847
Pdcd6 ENSMUSG00000021576	0.1447131	0.3900847
Gorasp2 ENSMUSG00000014959	0.1383346	0.3906311
Rps6ka3 ENSMUSG00000031309	-0.252163	0.3906311
Prmt9 ENSMUSG00000037134	0.2368343	0.3906311
Gnai3 ENSMUSG00000000001	-0.154271	0.3908158
Blm ENSMUSG00000030528	-0.2911679	0.3908158
Pus7l ENSMUSG00000033356	-0.2171482	0.3908633
Lats1 ENSMUSG00000040021	-0.2046739	0.3908633
Rad1 ENSMUSG00000022248	-0.1899301	0.3908633
Ceng1 ENSMUSG00000020326	-0.2778988	0.3915754
Shisa5 ENSMUSG00000025647	0.1369697	0.3917656
Kirrel ENSMUSG00000041734	0.1569707	0.3917846
Cep295 ENSMUSG00000046111	-0.3370939	0.3921247
Ext1 ENSMUSG00000061731	0.1385059	0.3921247
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Sdsl ENSMUSG00000029596	-0.5786214	0.3921247
Jrkl ENSMUSG00000079083	-0.5810639	0.3921247
Adamts12 ENSMUSG0000004749	-0.7110641	0.3921247
Tmem68 ENSMUSG00000028232	-0.2481576	0.3921247
Psmc3ip ENSMUSG00000019303	-0.2075412	0.3921247
Ubash3b ENSMUSG00000032020	0.238637	0.3921247
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Snx2 ENSMUSG00000034484	-0.1845881	0.3921247
E2f7 ENSMUSG00000020185	0.1852258	0.3921247
Pkig ENSMUSG00000035268	0.1685946	0.3921247
Pdk1 ENSMUSG00000006494	0.1485187	0.3921247
Crtc1 ENSMUSG00000003575	0.146054	0.3921247
Dnm1l ENSMUSG00000022789	-0.1950583	0.3921247
Acly ENSMUSG00000020917	0.147639	0.3921247
Gpcpd1 ENSMUSG00000027346	-0.4370817	0.3921247
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Inca1 ENSMUSG00000057054	1.1111208	0.3926078
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Rpl9-ps6 ENSMUSG00000062456	-0.1855069	0.3930117

Tead1 ENSMUSG00000055320	0.170885	0.3930297
Cyp4v3 ENSMUSG00000079057	0.3215181	0.3943224
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Tspan15 ENSMUSG00000037031	0.2626804	0.3952518
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Ranbp9 ENSMUSG00000038546	-0.1799074	0.395327
Rdh13 ENSMUSG00000008435	0.1651956	0.3953619
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Pacsin3 ENSMUSG00000027257	0.1765901	0.3954237
Pter ENSMUSG00000026730	0.3294699	0.3954237
Nfe2l3 ENSMUSG00000029832	-1.27867	0.3954237
Klk10 ENSMUSG00000030693	-1.6664962	0.3954237
Samd1 ENSMUSG00000079003	-0.1462745	0.3955836
Irs2 ENSMUSG00000038894	0.1960941	0.3955836
Selp ENSMUSG00000026580	-1.6647542	0.3955836
Taf1a ENSMUSG00000072258	-0.2394714	0.3955836
Gpatch8 ENSMUSG00000034621	0.1671017	0.3957958
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Ppbp ENSMUSG00000029372	-1.1736551	0.3961545
Amigo3 ENSMUSG00000032593	0.3292809	0.3962779
Cavin4 ENSMUSG00000028348	0.4479789	0.3969306
Atp8b2 ENSMUSG00000060671	0.1620433	0.3974042
AU018091 ENSMUSG000000547	0.7215269	0.3998862
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Cnih1 ENSMUSG00000015759	-0.1371707	0.4005603
Srp9 ENSMUSG00000026511	-0.1398313	0.401092
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Hes1 ENSMUSG00000022528	-0.2244939	0.4016817
RbmX ENSMUSG00000031134	-0.1738469	0.401846
Fbxo10 ENSMUSG00000048232	0.237932	0.401846
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Dynap ENSMUSG00000024512	-1.2104189	0.403251
Pcx ENSMUSG00000024892	0.1398572	0.403251
Cdk12 ENSMUSG00000029403	-0.272392	0.403251
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Trove2 ENSMUSG00000018199	-0.330046	0.4042066
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Gk ENSMUSG00000025059	-0.3209962	0.4042066
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Gpsm1 ENSMUSG00000026930	-0.1837127	0.4042066
Fam110b ENSMUSG00000049115	0.2705948	0.4042066
Rnf157 ENSMUSG00000052949	0.2484414	0.4042066
Trim68 ENSMUSG00000073968	-0.3451914	0.4042066
Kpna4 ENSMUSG00000027782	-0.1472751	0.4042066
Fbxo21 ENSMUSG00000032898	0.1635127	0.4048692
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Gpr155 ENSMUSG00000041762	-0.5149812	0.4049424
Wdr35 ENSMUSG00000066643	-0.2718593	0.4049424
Acsl6 ENSMUSG00000020333	-1.4924598	0.4049424
Fto ENSMUSG00000055932	0.1494692	0.4049424
Mvp ENSMUSG00000030681	0.1399835	0.4049424
Cent1 ENSMUSG00000011960	-0.1770667	0.4049424
Slc35a3 ENSMUSG00000027957	-0.1942677	0.4049424
Zfp638 ENSMUSG00000030016	-0.2705834	0.4049851
Stard10 ENSMUSG00000030688	-0.3429745	0.40537
Mylk ENSMUSG00000022836	0.3860367	0.40537
Kctd10 ENSMUSG00000001098	0.1630052	0.4055215
Lrfr1 ENSMUSG00000030600	0.3895526	0.4055215
Pif1 ENSMUSG00000041064	-0.1905316	0.40556
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Lyar ENSMUSG00000067367	-0.1430112	0.4056166
Chaf1a ENSMUSG00000002835	0.1391206	0.4056166
Pim1 ENSMUSG00000024014	0.2210146	0.4056166
Afg311 ENSMUSG00000031967	0.138677	0.4056166
Usp37 ENSMUSG00000033364	-0.21545	0.4056166
Zfp617 ENSMUSG00000066880	-0.4674757	0.4056283
Ndr2 ENSMUSG00000004558	0.2117978	0.405753
Ckap2l ENSMUSG00000048327	-0.1607167	0.4059104
Robo3 ENSMUSG00000032128	1.6029558	0.4059104
Itgb1bp2 ENSMUSG00000031312	1.6029559	0.4059104
Ssbp1 ENSMUSG00000029911	-0.1914161	0.4059104
Secisbp2l ENSMUSG0000003509	-0.2050834	0.4059104
Plp1 ENSMUSG00000031425	-1.2095481	0.4059104
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Noc3l ENSMUSG00000024999	-0.1504064	0.4059104
Adrb2 ENSMUSG00000045730	-1.3880247	0.4059104
Matn2 ENSMUSG00000022324	0.1931409	0.4059104
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Amfr ENSMUSG00000031751	0.1397884	0.4059104
Traf3ip2 ENSMUSG00000019842	0.2095203	0.4059104
Crk ENSMUSG00000017776	-0.1326731	0.4059809
Mtr ENSMUSG00000021311	-0.214217	0.4060112
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Ms12 ENSMUSG00000066415	-0.1964451	0.4079946
Plat ENSMUSG00000031538	0.1424842	0.4079946
Mxi1 ENSMUSG00000025025	0.1316822	0.4079946

Supt3 ENSMUSG00000038954	-0.3167881	0.4082229
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Tmem185b ENSMUSG0000000989	0.2106901	0.409006
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Phka1 ENSMUSG00000034055	-0.328966	0.4103889
Rab3ip ENSMUSG00000064181	0.2016678	0.4106458
Wnt9a ENSMUSG00000000126	-0.9081896	0.4106604
Atp1a1 ENSMUSG00000033161	0.1298568	0.4106604
Pdgfc ENSMUSG00000028019	-0.1559631	0.4106604
Cwh43 ENSMUSG00000029154	1.2634164	0.4106854
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Stx16 ENSMUSG00000027522	-0.1720268	0.4106854
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Wnt2b ENSMUSG00000027840	-0.5094593	0.4112942
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Ppfa1 ENSMUSG00000037519	0.1353445	0.4122639
Azin1 ENSMUSG00000037458	-0.1430002	0.4124494
Rep15 ENSMUSG00000040121	-1.3242047	0.4124494
Pde10a ENSMUSG00000023868	0.652337	0.4129822
Zfp36 ENSMUSG00000044786	0.1942524	0.4129822
Ireb2 ENSMUSG00000032293	-0.1929314	0.413135
Nipa2 ENSMUSG00000030452	0.1865518	0.4133503
Pnpla7 ENSMUSG00000036833	0.1729609	0.4136092
Huwe1 ENSMUSG00000025261	0.142735	0.4139213
Gm5431 ENSMUSG00000058163	0.8510656	0.4144735
Nutf2-ps1 ENSMUSG0000007149	0.3403841	0.4150088
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Man1c1 ENSMUSG00000037306	-0.2272292	0.4154966
Cask ENSMUSG00000031012	-0.1509459	0.4154966
Tstd3 ENSMUSG00000028251	-0.3053056	0.4157429
Cacnb2 ENSMUSG00000057914	0.3227959	0.4158685
Snn ENSMUSG00000037972	0.1326928	0.4158685
Ift88 ENSMUSG00000040040	-0.4135456	0.4158685
Mapk8ip1 ENSMUSG0000002722	-0.2118983	0.4165602
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Aim2 ENSMUSG00000037860	1.2643983	0.4165602
Ptpn12 ENSMUSG00000028771	-0.1749839	0.4165602
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Ndr1 ENSMUSG00000005125	0.141386	0.4171046
Eef2kmt ENSMUSG00000022544	0.2437964	0.4176862
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B3gnt2 ENSMUSG00000051650	0.6167149	0.4178593
Npr3 ENSMUSG00000022206	-0.3696484	0.4178593
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Duoxa1 ENSMUSG00000027224	-1.207464	0.4178737
Mrps33 ENSMUSG00000029918	-0.2166006	0.4178737
Myo1d ENSMUSG00000035441	0.1769682	0.4178737
Sgo2a ENSMUSG00000026039	-0.3934187	0.4178737
Eif4ebp2 ENSMUSG00000020091	0.1404117	0.4178737
Btbd2 ENSMUSG00000003344	0.1404213	0.4178737
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Cdc42bpb ENSMUSG0000002127	0.134662	0.4178737
Eno1b ENSMUSG00000059040	0.1499274	0.4178737
Dtd2 ENSMUSG00000020956	0.257254	0.4180533
Sept1 ENSMUSG00000000486	-0.4741065	0.4183618
Abcb9 ENSMUSG00000029408	-0.6945436	0.4183618
C330018D20Rik ENSMUSG00000000000	-0.39547	0.4183618
Clca2 ENSMUSG00000036960	-1.5668119	0.4183618
Rnf213 ENSMUSG00000070327	0.1618388	0.4183618
Rhob ENSMUSG00000054364	0.1421671	0.4183618
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Spcs2 ENSMUSG00000035227	-0.1348613	0.4193819
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Ophn1 ENSMUSG00000031214	-0.5630698	0.420561
Nanp ENSMUSG00000053916	-1.4149946	0.4208296
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Phf19 ENSMUSG00000026873	-0.2922984	0.4210038
Rnf2 ENSMUSG00000026484	-0.1613024	0.4210038
Pcgf6 ENSMUSG00000025050	-0.1490658	0.4211183
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Clen6 ENSMUSG00000029016	0.1958305	0.4217007
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Snx15 ENSMUSG00000024787	-0.1586604	0.4220401
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Gdi2 ENSMUSG00000021218	-0.1370568	0.4221841
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Irf9 ENSMUSG00000002325	0.1341116	0.4228056
Serinc5 ENSMUSG00000021703	-0.2290005	0.4228056
Myl4 ENSMUSG00000061086	-0.5259144	0.4228144
Adhfe1 ENSMUSG00000025911	-1.2081267	0.4236719
Slpi ENSMUSG00000017002	0.1638836	0.4236719
Litaf ENSMUSG00000022500	0.1378505	0.4236719
Jade3 ENSMUSG00000037315	-0.3007748	0.4239329



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Brd1 ENSMUSG00000022387	0.1323187	0.4249855
Mylpf ENSMUSG00000030672	-0.9450975	0.4250594
Eif4g3 ENSMUSG00000028760	0.1580316	0.4253406
Zranb1 ENSMUSG00000030967	-0.1683696	0.4253406
Aldoc ENSMUSG00000017390	-0.3081414	0.4259175
Tcof1 ENSMUSG00000024613	0.1298536	0.4259175
Odf2 ENSMUSG00000026790	0.135642	0.426322
Parp4 ENSMUSG00000054509	0.2205578	0.4267165
Fth1 ENSMUSG00000024661	0.1314069	0.4267165
Kif1b ENSMUSG00000063077	-0.1590684	0.4267165
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Rap2b ENSMUSG00000036894	-0.2503718	0.4267165
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Kdm5d ENSMUSG00000056673	-0.3161034	0.4271296
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Cyr61 ENSMUSG00000028195	-0.1299798	0.4272557
Zc3hav1 ENSMUSG00000029826	0.1457313	0.4272557
Pde4dip ENSMUSG00000038170	0.1886669	0.4272557
Zswim4 ENSMUSG00000035671	0.1461619	0.4272557
Dynlt1f ENSMUSG00000095677	-0.1919511	0.4272557
Cab39 ENSMUSG00000036707	-0.1423654	0.4272557
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Coq7 ENSMUSG00000030652	0.1749679	0.4272557
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Magi1 ENSMUSG00000045095	0.2561955	0.4277047
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Tubgcp3 ENSMUSG00000000759	0.1272786	0.4277423
Surf2 ENSMUSG00000014873	-0.1692356	0.4280417
Slc6a4 ENSMUSG00000020838	0.5203791	0.4280417
Cdk8 ENSMUSG00000029635	-0.148554	0.4280417
Spred2 ENSMUSG00000045671	0.1945506	0.4284081
Lgr4 ENSMUSG00000050199	-0.2197497	0.4284081
Prtg ENSMUSG00000036030	-0.413068	0.4284081
Setd4 ENSMUSG00000022948	0.2866398	0.4284081
Fads1 ENSMUSG00000010663	0.1306444	0.4284081

Egflam ENSMUSG00000042961	0.6214567	0.4284081
Tulp4 ENSMUSG00000034377	-0.1712478	0.4284081
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Hjurp ENSMUSG00000044783	0.1435625	0.4288144
Zfp933 ENSMUSG00000059423	-0.3811452	0.4292557
Fut10 ENSMUSG00000046152	0.1723493	0.4294669
Twist2 ENSMUSG00000007805	-0.1504957	0.4294669
Ulk1 ENSMUSG00000029512	0.1491476	0.4294669
Vkorc1 ENSMUSG000000096145	-0.4643492	0.4294669
Arhgap17 ENSMUSG0000003076	0.1632216	0.4305546
Tor1aip1 ENSMUSG00000026466	0.132593	0.4310163
Stx11 ENSMUSG00000039232	0.2379468	0.4327961
Tet1 ENSMUSG00000047146	0.467215	0.4329351
Akap1 ENSMUSG00000018428	0.1296259	0.4329351
Snap47 ENSMUSG00000009894	0.1913966	0.4329894
Gtf3c3 ENSMUSG00000041303	-0.2982313	0.4330159
Nfatc2 ENSMUSG00000027544	-0.6358873	0.4330159
Tcn2 ENSMUSG00000020432	-0.2600041	0.4335459
Ncoa5 ENSMUSG00000039804	0.1293908	0.4338931
Pigt ENSMUSG00000017721	0.1345644	0.4338931
Wdr60 ENSMUSG00000042050	-0.2650824	0.4338931
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Rab25 ENSMUSG00000008601	0.9941669	0.4338931
Pspc1 ENSMUSG00000021938	-0.1419063	0.4338931
Mef2d ENSMUSG00000001419	0.1490735	0.4338931
Masp1 ENSMUSG00000022887	-0.2636244	0.4344517
Pqlc2 ENSMUSG00000028744	0.2511856	0.4346815
Acsf2 ENSMUSG00000076435	0.1632473	0.435519
Frmd4a ENSMUSG00000026657	0.1556387	0.4356636
A830005F24Rik ENSMUSG000000	-1.4362121	0.4356636
2310022A10Rik ENSMUSG000000	0.1595872	0.4356636
Asb13 ENSMUSG00000033781	0.1848203	0.4356636
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Sorbs2 ENSMUSG00000031626	1.5025603	0.4356636
Klf9 ENSMUSG00000033863	0.2861969	0.4356636
Cln5 ENSMUSG00000022125	0.1771186	0.4356636
Flnb ENSMUSG00000025278	0.13655	0.4356636
Camkk2 ENSMUSG00000029471	0.1379059	0.4356636
Scoc ENSMUSG00000063253	-0.2671956	0.4356636
Pold4 ENSMUSG00000024854	-0.2080045	0.4356636
Zranb3 ENSMUSG00000036086	-0.3097544	0.4356636
Hipk1 ENSMUSG00000008730	-0.1426998	0.4364487
Vamp4 ENSMUSG00000026696	-0.2346491	0.4369932
Bnip3 ENSMUSG00000078566	0.1294303	0.4378021
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Pgrmc1 ENSMUSG00000006373	-0.1309586	0.4379378
Man2a1 ENSMUSG00000024085	-0.1564045	0.4379378
Igf2bp2 ENSMUSG00000033581	0.1280859	0.4379378
Tnfsf15 ENSMUSG00000050395	1.2983678	0.4379378
Pfkfb4 ENSMUSG00000025648	-0.1807289	0.4380409
Ier3 ENSMUSG00000003541	0.1348295	0.4380409
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Adgrl2 ENSMUSG00000028184	0.1514423	0.4380409

Ntf5 ENSMUSG00000074121	0.454667	0.4380409
Rab13 ENSMUSG00000022827	0.21195	0.4380409
Pdxk ENSMUSG00000032788	0.1900786	0.4385206
Acy1 ENSMUSG00000023262	-0.1830573	0.4385206
Galc ENSMUSG00000021003	-0.2238447	0.4391818
Exoc5 ENSMUSG00000061244	-0.2067317	0.4395515
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Alms1 ENSMUSG00000063810	-0.5114883	0.4395515
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Fam168a ENSMUSG00000029461	0.1628248	0.4410116
Mfsd11 ENSMUSG00000020818	0.1700048	0.4410116
Camk2d ENSMUSG00000053819	-0.1297049	0.4411272
Mageb3 ENSMUSG00000074881	1.2986684	0.4414249
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Vezt ENSMUSG00000036099	0.2090076	0.4414249
Pde6g ENSMUSG00000025386	-1.5621174	0.4417028
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Trappc11 ENSMUSG0000003810	-0.1558163	0.4423081
Atpaf2 ENSMUSG00000042709	0.1696546	0.4423081
F7 ENSMUSG00000031443	0.5846302	0.442431
Syt12 ENSMUSG00000030616	-0.4554915	0.442431
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Ctdsp12 ENSMUSG00000033411	-0.2319652	0.442431
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Dph5 ENSMUSG00000033554	-0.2054464	0.4442915
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Tub ENSMUSG00000031028	-1.0432572	0.4465352
Mrpl42 ENSMUSG00000062981	-0.226286	0.4468532
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Ilf3 ENSMUSG00000032178	0.1269788	0.4475055
Tiam1 ENSMUSG00000002489	0.1717976	0.4475055
Adra1d ENSMUSG00000027335	-0.3658548	0.4475055
Prkx ENSMUSG00000035725	0.2297574	0.4475055
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Kin ENSMUSG00000037262	-0.2217569	0.4486992
Cops9 ENSMUSG00000073616	-0.1941428	0.4486992
Ptbp2 ENSMUSG00000028134	-0.1679181	0.4486992
C1qtnf6 ENSMUSG00000022440	0.1362198	0.4486992
Agtpbp1 ENSMUSG00000021557	-0.2255941	0.4486992
Ndufb6 ENSMUSG00000071014	0.1597442	0.4490933
Dcxr ENSMUSG00000039450	-0.3420535	0.4493059
Tmprss6 ENSMUSG00000016942	-0.9752896	0.4495822
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Ylpm1 ENSMUSG00000021244	0.1398333	0.4508547
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Irak3 ENSMUSG00000020227	0.321921	0.4518136
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Zfyve19 ENSMUSG00000068580	-0.1697942	0.4641412
Ccnd3 ENSMUSG00000034165	0.1252255	0.4641412
Hsd17b4 ENSMUSG00000024507	0.150933	0.4642272
Gnb5 ENSMUSG00000032192	-0.2946883	0.4645842
Mblac1 ENSMUSG00000049285	-0.3579975	0.4647932
Fam214a ENSMUSG00000034858	-0.4140866	0.4649822
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Enthd1 ENSMUSG00000050439	0.7353655	0.4653886
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Pias3 ENSMUSG00000028101	-0.1427621	0.4671791
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Wiz ENSMUSG00000024050	0.1262437	0.4671791
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Ostm1 ENSMUSG00000038280	0.2291356	0.4671791
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Spd11 ENSMUSG00000069910	-0.1876743	0.4675329
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Cth ENSMUSG00000028179	0.2850332	0.4689585
Saxo2 ENSMUSG00000038570	0.9570269	0.4689585
Caprin2 ENSMUSG00000030309	-0.3852022	0.4689585
Bmper ENSMUSG00000031963	-0.2315512	0.4689585
Hnrnpm ENSMUSG00000059208	-0.1196662	0.4689585
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Ccdc159 ENSMUSG00000006241	0.5667391	0.4689585
Cpsf1 ENSMUSG00000034022	0.126183	0.4689585
Sft2d2 ENSMUSG00000040848	0.2108995	0.4689585
Ndufb2 ENSMUSG00000002416	-0.3199089	0.4694832
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Ankrd11 ENSMUSG00000035569	0.1250379	0.4707775

Ift81 ENSMUSG00000029469	-0.319858	0.4707775
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Abhd4 ENSMUSG00000040997	0.1446378	0.4715213
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Trappc6b ENSMUSG0000002099	-0.1832685	0.4718412
Atg9a ENSMUSG00000033124	0.1619648	0.4718412
Sec23b ENSMUSG00000027429	0.1395334	0.4718412
Trpm7 ENSMUSG00000027365	-0.1978046	0.4718412
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Cyld ENSMUSG00000036712	-0.1639442	0.4718622
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Map2k6 ENSMUSG00000020623	-0.3783756	0.4718746
Pgf ENSMUSG00000004791	-0.3056618	0.472091
Cdc73 ENSMUSG00000026361	-0.1733092	0.4723253
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Zbtb44 ENSMUSG00000047412	-0.2586335	0.4729242
Ttyh1 ENSMUSG00000030428	0.6228359	0.4731
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Anks1 ENSMUSG00000024219	0.157644	0.4731
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Slc1a4 ENSMUSG00000020142	0.1600933	0.4742142
Zfp105 ENSMUSG00000057895	-1.4079501	0.4742142
Fjx1 ENSMUSG00000075012	0.3301067	0.4742142
Rnf11 ENSMUSG00000028557	-0.1275056	0.4745512
Uba5 ENSMUSG00000032557	-0.1559733	0.4745512
Scamp2 ENSMUSG00000040188	0.1662108	0.4746596
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Ndufaf5 ENSMUSG00000027384	-0.2410718	0.4760506
Egfr ENSMUSG00000020122	0.2702622	0.4760863
Pcbp1 ENSMUSG00000051695	0.1182535	0.4762019
Uqcrh ENSMUSG00000063882	-0.2173609	0.4762702
Rgs9bp ENSMUSG00000056043	0.8738565	0.4763713
Vipas39 ENSMUSG00000021038	-0.1653787	0.4763713
Arf3 ENSMUSG00000051853	0.1238896	0.4763713

Slc13a5 ENSMUSG00000020805	1.0834741	0.4765594
Blzf1 ENSMUSG00000026577	-0.3089478	0.4765594
E130309D02Rik ENSMUSG00000020805	-0.1514723	0.4765594
Als2 ENSMUSG00000026024	0.1927889	0.4765594
Polb ENSMUSG00000031536	-0.2041831	0.4766995
Zfp334 ENSMUSG00000017667	0.1626724	0.4768865
Ensa ENSMUSG00000038619	0.1237429	0.4768976
Ggnbp2 ENSMUSG00000020530	-0.1610453	0.4773664
Cenpw ENSMUSG00000075266	-0.189283	0.4782856
Anapc16 ENSMUSG00000020107	0.1485131	0.4782856
Setd5 ENSMUSG00000034269	0.1636037	0.4782856
Creb5 ENSMUSG00000053007	0.3105578	0.4782856
Cdc42ep2 ENSMUSG0000004566	-0.1583464	0.4783364
Pla2g4a ENSMUSG00000056220	-0.3044062	0.4785122
Anapc5 ENSMUSG00000029472	0.11775	0.4789273
Trim30c ENSMUSG00000078616	0.5155418	0.4789273
Cebpδ ENSMUSG00000071637	0.1180484	0.4789571
Pdpr ENSMUSG00000033624	0.3023065	0.4793083
P2rx7 ENSMUSG00000029468	-0.3762591	0.4793083
Nr4a3 ENSMUSG00000028341	0.8060488	0.4793083
Npc1 ENSMUSG00000024413	0.1750466	0.4793083
Atp2c1 ENSMUSG00000032570	-0.1558243	0.479807
Ccsap ENSMUSG00000031971	-0.2413142	0.4799032
Parm1 ENSMUSG00000034981	1.5123823	0.4803044
Rgs4 ENSMUSG00000038530	-0.2187467	0.4803044
Kmt2a ENSMUSG00000002028	0.1813981	0.4803044
Baz2a ENSMUSG00000040054	0.1206708	0.4803044
Sytl1 ENSMUSG00000028860	-0.8381817	0.4803044
Strada ENSMUSG00000069631	0.1969361	0.4806379
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Lpgat1 ENSMUSG00000026623	-0.1386294	0.4806379
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Slc39a8 ENSMUSG00000053897	0.3465859	0.4808246
Angptl4 ENSMUSG00000002289	-0.1365251	0.4812422
Aox1 ENSMUSG00000063558	-0.7930505	0.4826949
Sub1 ENSMUSG00000022205	-0.1524355	0.4829133
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Mia3 ENSMUSG00000056050	-0.1985701	0.4839163
Batf3 ENSMUSG00000026630	0.3127933	0.4840595
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Cstf3 ENSMUSG00000027176	-0.158082	0.4840595
Arfrp1 ENSMUSG00000038671	-0.1570185	0.4846174
Rnf10 ENSMUSG00000041740	0.1223249	0.4847832
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Decr1 ENSMUSG00000028223	-0.1900856	0.4853601
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Chrb2 ENSMUSG00000027950	-0.4673228	0.4855649
Atp6v1h ENSMUSG00000033793	-0.1616135	0.4855649
Gstp2 ENSMUSG00000038155	1.3095869	0.4859072
Trim23 ENSMUSG00000021712	-0.2708017	0.4859072
Pid1 ENSMUSG00000045658	0.7989643	0.4860184



Usf1 ENSMUSG00000026641	0.1213561	0.4860184
Exd2 ENSMUSG00000032705	0.2190213	0.4860184
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Akap12 ENSMUSG00000038587	-0.1752669	0.4860454
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Gabre ENSMUSG00000031340	-0.4004612	0.4894777
Chst3 ENSMUSG00000057337	-0.2366516	0.4894777
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Nucb2 ENSMUSG00000030659	-0.3189964	0.4920792
Ssna1 ENSMUSG00000026966	-0.1342713	0.4920792

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Loxl4 ENSMUSG00000025185	0.1288375	0.4928845
Phkb ENSMUSG00000036879	-0.2776237	0.4928845
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Sp4 ENSMUSG00000025323	-0.5190868	0.4928845
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Snrpd1 ENSMUSG00000002477	-0.1588725	0.4928845
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Dcaf10 ENSMUSG00000035572	-0.1668743	0.4928845
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Adra2a ENSMUSG00000033717	0.9644592	0.4931314
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P2rx4 ENSMUSG00000029470	0.1570522	0.5051335
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Prokr1 ENSMUSG00000049409	0.7969691	0.5086246
Ddx1 ENSMUSG00000037149	-0.1202197	0.5086246
Senp7 ENSMUSG00000052917	-0.2853165	0.5086246
Fzd8 ENSMUSG00000036904	0.1750658	0.5086246
2410002F23Rik ENSMUSG000000	-0.1174858	0.508782
Sp2 ENSMUSG00000018678	0.1702798	0.5088721
Ankrd33b ENSMUSG0000002223	-0.8533384	0.5088721
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Idi1 ENSMUSG00000058258	-0.2530695	0.5095746
Spx ENSMUSG00000071112	0.6936272	0.5095746
Mgat3 ENSMUSG00000042428	0.1910834	0.5096892
Eva1b ENSMUSG00000050212	-0.1282406	0.5096892
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Btg1 ENSMUSG000000036478	0.1191694	0.5178996
Gga3 ENSMUSG000000020740	0.1703335	0.5178996
Qk ENSMUSG000000062078	-0.1211573	0.5178996
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Emid1 ENSMUSG000000034164	0.7653374	0.5178996
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Shq1 ENSMUSG000000035378	0.1859723	0.519558
Gfra2 ENSMUSG000000022103	-0.2261903	0.5196619
Slc25a13 ENSMUSG000000015112	0.2156815	0.5197578
Kbtbd7 ENSMUSG000000043881	-0.3521703	0.5197578
Slc25a37 ENSMUSG000000034248	0.1258853	0.5200218
Daglb ENSMUSG000000039206	-0.2214883	0.5200218
Rpl23 ENSMUSG000000071415	-0.1664109	0.5203423

Klh133 ENSMUSG00000090799	-1.6710277	0.5205345
Mertk ENSMUSG00000014361	0.7272746	0.5205727
Prdm16 ENSMUSG00000039410	0.1849178	0.5209149
Hist1h1c ENSMUSG00000036181	-0.1843284	0.5215563
Plcx1 ENSMUSG00000064247	-0.5094565	0.5215563
Nup188 ENSMUSG00000052533	0.1156427	0.5215563
Ipo5 ENSMUSG00000030662	-0.1219145	0.5216395
Tlk1 ENSMUSG00000041997	-0.172129	0.5218718
Trappc9 ENSMUSG00000047921	0.1777805	0.5218718
Vps4b ENSMUSG00000009907	-0.1424643	0.5218718
Tollip ENSMUSG00000025139	0.150159	0.5218718
Rab11fip5 ENSMUSG0000005134	0.1382076	0.5218718
Fancm ENSMUSG00000055884	-0.3461116	0.5218718
Scube3 ENSMUSG00000038677	0.3032738	0.5218718
Apom ENSMUSG00000024391	-0.9677584	0.5218718
Arfgap3 ENSMUSG00000054277	0.1398218	0.5218718
Hdac5 ENSMUSG00000008855	0.1168495	0.5218718
Tigd2 ENSMUSG00000049232	-0.3662544	0.5218718
Hectd1 ENSMUSG00000035247	-0.1992314	0.5219335
Lifr ENSMUSG00000054263	0.183629	0.5219335
Nutf2 ENSMUSG00000008450	-0.1171614	0.5219335
Arf4 ENSMUSG00000021877	0.1143969	0.522264
Rassf2 ENSMUSG00000027339	0.2390143	0.5227248
Zfp654 ENSMUSG00000047141	-0.3515349	0.522963
Pcbp2 ENSMUSG00000056851	0.113621	0.522963
Alg11 ENSMUSG00000063362	-0.1770057	0.5235284
Olf1r56 ENSMUSG00000040328	0.4100119	0.5235284
Bach1 ENSMUSG00000025612	-0.1912647	0.5242755
Arl5a ENSMUSG00000036093	-0.1875423	0.5246639
Mafg ENSMUSG00000051510	0.1175527	0.5246639
Il1r1 ENSMUSG00000026072	-0.1330454	0.5246639
Rpl21 ENSMUSG00000041453	-0.2293889	0.525222
Keap1 ENSMUSG00000003308	0.1192824	0.525291
F2r ENSMUSG00000048376	-0.1221459	0.5253173
Ccdc3 ENSMUSG00000026676	-1.081399	0.5253173
Rnf130 ENSMUSG00000020376	0.2031077	0.5253173
Stard5 ENSMUSG00000046027	0.2110242	0.5253173
Igf2bp3 ENSMUSG00000029814	0.1980713	0.5253428
Hnrnpul1 ENSMUSG0000004072	0.1128251	0.5253428
Adamts12 ENSMUSG0000003604	0.758184	0.5253428
Arhgap32 ENSMUSG0000004144	0.2827529	0.5253428
Pgd ENSMUSG00000028961	0.111996	0.5253428
Kpna6 ENSMUSG00000003731	0.1310592	0.5253428
Vcam1 ENSMUSG00000027962	0.1122211	0.5257089
Trim33 ENSMUSG00000033014	-0.1929888	0.526306
Neto2 ENSMUSG00000036902	-0.2966252	0.526306
Drc3 ENSMUSG00000056598	0.5805934	0.526306
Ifrd1 ENSMUSG00000001627	-0.121541	0.526306
Prrc2b ENSMUSG00000039262	0.1292191	0.526306
Plcb4 ENSMUSG00000039943	-0.4202196	0.5275006
Tmem39a ENSMUSG0000000284	0.1285087	0.5276804
2610528A11Rik ENSMUSG000000	-0.7089262	0.5286616
Hrct1 ENSMUSG00000071001	-1.1741274	0.5286683

Kifc3 ENSMUSG00000031788	0.1150505	0.5286683
Aen ENSMUSG00000030609	0.1254201	0.5287723
Dzip3 ENSMUSG00000064061	-0.2738871	0.52878
Sgtb ENSMUSG00000042743	-0.3441174	0.5288191
Ptgrn ENSMUSG00000027864	0.1185848	0.5288191
Dse ENSMUSG00000039497	-0.1343781	0.5288191
Slc46a3 ENSMUSG00000029650	0.7415119	0.5288191
Ica1 ENSMUSG00000062995	1.1192085	0.5290123
Tlr4 ENSMUSG00000039005	0.6881067	0.5290123
Gdnf ENSMUSG00000022144	0.1734027	0.5290123
Wdr53 ENSMUSG00000022787	-0.2471119	0.5290983
Atxn2l ENSMUSG00000032637	0.1152493	0.5296807
Aptx ENSMUSG00000028411	-0.2027281	0.5297645
Sat1 ENSMUSG00000025283	0.1135738	0.5299502
Sv2a ENSMUSG00000038486	0.2067395	0.5299502
Ndufs6 ENSMUSG00000021606	-0.2268289	0.5299502
Zfhx4 ENSMUSG00000025255	0.2148871	0.5301107
Mbd4 ENSMUSG00000030322	-0.2453347	0.5301449
Ulk2 ENSMUSG00000004798	-0.198445	0.5303795
Rnf5 ENSMUSG00000015478	-0.1598777	0.5304016
Deaf1 ENSMUSG00000058886	0.1459657	0.5304016
Zbtb20 ENSMUSG00000022708	-0.4091027	0.5304016
Gm5113 ENSMUSG00000066647	-0.3849435	0.5304016
Them6 ENSMUSG00000056665	0.150152	0.5304016
Pacs1 ENSMUSG00000024855	0.1202446	0.5306496
Tom112 ENSMUSG00000000538	0.1303985	0.5306496
Fzd9 ENSMUSG00000049551	-0.512813	0.5314373
Coq10b ENSMUSG00000025981	-0.2214198	0.5316716
Napepld ENSMUSG00000044968	-0.3704549	0.5316716
Timm21 ENSMUSG00000024645	-0.2425207	0.5316726
Mat2a ENSMUSG00000053907	-0.1113884	0.5316726
Pgrmc2 ENSMUSG00000049940	0.1164511	0.5316726
Mid1ip1 ENSMUSG00000008035	0.1386012	0.5316726
Etfbkmt ENSMUSG00000039958	-0.4051603	0.5316726
Coro1c ENSMUSG00000004530	0.1112175	0.5321014
Fam8a1 ENSMUSG00000069237	-0.162897	0.5323166
Gm9887 ENSMUSG00000052673	-0.563032	0.5327947
Gm13283 ENSMUSG0000010050	0.5402517	0.5327947
Gemin4 ENSMUSG00000049396	-1.0631582	0.5327947
Cited1 ENSMUSG00000051159	-0.7300455	0.5327947
Inafm1 ENSMUSG00000091811	0.213389	0.5327947
Dcn ENSMUSG00000019929	-0.2881076	0.5327947
Nedd4 ENSMUSG00000032216	-0.123478	0.5327947
Atxn3 ENSMUSG00000021189	-0.1910042	0.5332262
Golga2 ENSMUSG00000002546	0.1229755	0.5344094
Stx17 ENSMUSG00000061455	-0.1923238	0.5363593
Cdc25c ENSMUSG00000044201	-0.217824	0.5363593
Me2 ENSMUSG00000024556	0.1150185	0.5363593
Gm9833 ENSMUSG00000049230	-0.3641715	0.5363593
Serpine1 ENSMUSG00000037411	0.111038	0.5363593
Tbc1d16 ENSMUSG00000039976	0.2655071	0.5363593
Gtf3c4 ENSMUSG00000035666	0.1093677	0.5363593
Hoxc13 ENSMUSG00000001655	0.7806627	0.5363593

Aldh18a1 ENSMUSG0000002500	0.1133582	0.5363593
Zfp521 ENSMUSG00000024420	0.1858548	0.5363593
Nlrc4 ENSMUSG00000039193	1.1204121	0.5363593
Mgat1 ENSMUSG00000020346	0.1153342	0.5363593
Plek2 ENSMUSG00000021118	1.1204166	0.5363593
Gpr162 ENSMUSG00000038390	-0.3204713	0.5363593
Mkx ENSMUSG00000061013	0.2629903	0.5363593
Zfp422 ENSMUSG00000059878	-0.2551146	0.5370552
Sil1 ENSMUSG00000024357	0.1782846	0.537072
Zdhhc1 ENSMUSG00000039199	-0.1726698	0.537072
Mrpl4 ENSMUSG00000003299	0.1404931	0.537072
Spidr ENSMUSG00000041974	-0.1717467	0.537072
Ldlr ENSMUSG00000032193	0.1152127	0.537072
Nptxr ENSMUSG00000022421	0.1279463	0.537072
Tanc1 ENSMUSG00000035168	0.1614812	0.537072
Tmem218 ENSMUSG0000003212	-0.3251789	0.5372722
Nid1 ENSMUSG00000005397	0.1320807	0.537811
Stat5b ENSMUSG00000020919	0.1236146	0.5380119
Luc7l2 ENSMUSG00000029823	-0.1360764	0.5380119
Psip1 ENSMUSG00000028484	-0.1318289	0.5380119
Shb ENSMUSG00000044813	0.1466625	0.5380119
Nol8 ENSMUSG00000021392	-0.2578567	0.5380119
Golga7b ENSMUSG00000042532	1.2524419	0.5383612
Tmem171 ENSMUSG0000005248	0.3105867	0.5384306
Ano8 ENSMUSG00000034863	-0.1201701	0.5386556
Uri1 ENSMUSG00000030421	-0.1432551	0.5387512
Dynl1 ENSMUSG00000009013	-0.1207231	0.5387512
Ctdsp2 ENSMUSG00000078429	0.1094318	0.5391356
Gm266 ENSMUSG00000010529	0.5643024	0.5391356
Paox ENSMUSG00000025464	0.2807825	0.540007
Hist1h2bh ENSMUSG0000011445	0.8502145	0.5404286
Ergic2 ENSMUSG00000030304	-0.1334097	0.5413174
Pusl1 ENSMUSG00000051557	-0.1504907	0.5414457
Cbr3 ENSMUSG00000022947	-0.2152417	0.541746
Tln2 ENSMUSG00000052698	0.1427834	0.5422111
Zfp3 ENSMUSG00000043602	-0.5551948	0.5422243
Arvcf ENSMUSG00000000325	-0.1807573	0.5427086
Metrn1 ENSMUSG00000039208	-0.1717641	0.5427192
Slc25a46 ENSMUSG00000024255	-0.1645782	0.5427211
Ambra1 ENSMUSG00000040506	0.136735	0.542818
Tnfrsf18 ENSMUSG00000041954	0.3843082	0.5431836
Npm3 ENSMUSG00000056209	-0.1154527	0.5431836
Pdcd10 ENSMUSG00000027835	-0.1540421	0.54405
Myc ENSMUSG00000022346	0.1461415	0.54405
Fdps ENSMUSG00000059743	0.2838043	0.54405
Erp29 ENSMUSG00000029616	-0.1374732	0.54405
Mvb12b ENSMUSG00000038740	0.1356645	0.54405
Zbtb10 ENSMUSG00000069114	-0.2411146	0.54405
Sdc1 ENSMUSG00000020592	-0.1085569	0.5442003
Tbca ENSMUSG00000042043	-0.1723759	0.5442234
Lman1l ENSMUSG00000056271	-0.9646758	0.5443254
Smyd5 ENSMUSG00000033706	0.1141527	0.5445553
Cln6 ENSMUSG00000032245	0.1503045	0.5445553



Lrguk ENSMUSG00000056215	-0.96871	0.5445553
Tom70a ENSMUSG0000002275	-0.1098311	0.5447977
Hoxc8 ENSMUSG00000001657	-0.1544875	0.5447977
Mrp135 ENSMUSG00000052962	-0.1610135	0.5448779
Oat ENSMUSG00000030934	0.1241065	0.5453762
Lurap1 ENSMUSG00000028701	0.3373074	0.5455337
Smc3 ENSMUSG00000024974	-0.1406797	0.5462143
Map3k4 ENSMUSG00000014426	0.1486837	0.5462143
Sox4 ENSMUSG00000076431	0.155349	0.5462143
Magohb ENSMUSG00000030188	-0.270162	0.5468828
C1s1 ENSMUSG00000038521	0.1641571	0.5468828
Mprp1 ENSMUSG00000005417	0.1119839	0.5468828
Ankrd9 ENSMUSG00000037904	-0.2856974	0.5468828
Arhgef9 ENSMUSG00000025656	-0.4842446	0.5469091
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Lamp1 ENSMUSG00000031447	0.1057451	0.5469222
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Ficd ENSMUSG00000053334	0.2747874	0.5470096
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Ttc13 ENSMUSG00000037300	0.1146074	0.5471066
Apc ENSMUSG00000005871	0.2947367	0.5472179
Mmp14 ENSMUSG00000000957	0.1138609	0.5475303
Xkr8 ENSMUSG00000037752	0.1948348	0.5475768
Mcoln1 ENSMUSG00000004567	0.1262363	0.5475768
Trdmt1 ENSMUSG00000026723	-0.376822	0.5475768
Setd6 ENSMUSG00000031671	-0.1469123	0.5475768
Ston2 ENSMUSG00000020961	0.2440029	0.5480187
Eef1akmt1 ENSMUSG000000219:	-0.1543423	0.5481766
Ddit4 ENSMUSG00000046818	-1.0170107	0.5481766
Bcl10 ENSMUSG00000028191	0.113372	0.5481766
Rmdn2 ENSMUSG00000036368	-0.310298	0.5481766
Sat2 ENSMUSG00000069835	-0.4268447	0.5485568
H2-Eb1 ENSMUSG00000060586	-1.0741186	0.5485585
1700056E22Rik ENSMUSG00000	-0.7608819	0.5486824
Pgghg ENSMUSG00000062031	0.1410387	0.5486936
Mmgt1 ENSMUSG00000061273	-0.1821841	0.5488201
Fzd5 ENSMUSG00000045005	0.3016041	0.5490085
Podxl ENSMUSG00000025608	0.345566	0.549576
2700049A03Rik ENSMUSG00000	0.2402468	0.5504722
Scal ENSMUSG00000035236	-0.4090055	0.5504722
Homer1 ENSMUSG00000007617	-0.1950096	0.5504722
Spag5 ENSMUSG00000002055	-0.1230772	0.5504722
Spata2 ENSMUSG00000047030	0.1293401	0.5504722
Svil ENSMUSG00000024236	0.1573419	0.5504722
Elmo1 ENSMUSG00000041112	-0.7022392	0.5504722
Zmym6 ENSMUSG00000042408	-0.2926213	0.5504722
Lgals9 ENSMUSG00000001123	0.108451	0.5509685
Nkd2 ENSMUSG00000021567	0.1578891	0.5509685
Sumf2 ENSMUSG00000025538	-0.1346626	0.5509685

Nectin1 ENSMUSG00000032012	0.2224148	0.5509685
Aurkb ENSMUSG00000020897	0.1148549	0.5509859
Polr2b ENSMUSG00000029250	-0.1194005	0.5509859
Wdr90 ENSMUSG00000073434	-0.1231931	0.5516712
Ldb1 ENSMUSG00000025223	-0.1090588	0.5519128
Oxsm ENSMUSG00000021786	-0.4135478	0.5519128
Sreb2 ENSMUSG00000022463	0.1099452	0.5519128
Dock4 ENSMUSG00000035954	-0.6110785	0.5525482
Aqp1 ENSMUSG00000004655	-0.1534266	0.5526046
Pcgf5 ENSMUSG00000024805	0.1452287	0.5529602
Supt6 ENSMUSG00000002052	0.1219036	0.5535536
Prdm9 ENSMUSG00000051977	0.2889655	0.5535536
Urb1 ENSMUSG00000039929	0.1188146	0.5536323
Kcnj4 ENSMUSG00000044216	0.5819439	0.5538068
Phf10 ENSMUSG00000023883	-0.1106231	0.5538068
Smg7 ENSMUSG00000042772	0.1242745	0.5541837
Ppid ENSMUSG00000027804	-0.1112011	0.5543792
Srp54b ENSMUSG00000112449	-1.085707	0.5543792
Lrch1 ENSMUSG00000068015	0.2813837	0.5543792
Eif5 ENSMUSG00000021282	-0.1186705	0.5544093
Pag1 ENSMUSG00000027508	0.6861206	0.5544093
Ptges3 ENSMUSG00000071072	-0.1206677	0.5552336
Ankzf1 ENSMUSG00000026199	0.1824511	0.5552336
Armc9 ENSMUSG00000062590	-0.2109519	0.5552336
D16Ert472e ENSMUSG0000002:	-0.1918081	0.5552336
Chfr ENSMUSG00000014668	-0.1393741	0.5552336
Rflnb ENSMUSG00000020846	-0.1934323	0.555585
Spp13 ENSMUSG00000029550	0.1163484	0.555585
Focad ENSMUSG00000038368	0.2566453	0.5557883
Zfp846 ENSMUSG00000058192	-0.350732	0.5557883
Cd3eap ENSMUSG00000047649	-0.1284181	0.5559314
Zfp592 ENSMUSG00000005621	0.1267406	0.5559314
Slc10a6 ENSMUSG00000029321	0.5656077	0.5559947
Daam1 ENSMUSG00000034574	0.1584649	0.5567126
Pi4ka ENSMUSG00000041720	0.1174506	0.5567126
Pten ENSMUSG00000013663	-0.1369934	0.5567126
Il6st ENSMUSG00000021756	0.123141	0.5567304
Ltv1 ENSMUSG00000019814	-0.1455987	0.5568253
Szt2 ENSMUSG00000033253	0.140842	0.5568257
Slc38a6 ENSMUSG00000044712	-0.3269544	0.5568257
Gpt2 ENSMUSG00000031700	0.1383654	0.5568587
Ppp4r3b ENSMUSG00000020463	-0.1909113	0.5576612
Matk ENSMUSG00000004933	-0.4416303	0.5579516
Eif2s1 ENSMUSG00000021116	-0.1193983	0.5582
Vapb ENSMUSG00000054455	0.1141242	0.5582
Map3k7 ENSMUSG00000028284	-0.1211266	0.5582
Smad4 ENSMUSG00000024515	0.1141101	0.5582
Cdk5r1 ENSMUSG00000048895	0.3013328	0.5585238
Esf1 ENSMUSG00000045624	-0.2305559	0.5585238
Ltbp4 ENSMUSG00000040488	0.1226555	0.5585238
Timp1 ENSMUSG00000001131	0.1256163	0.5585238
Adcy3 ENSMUSG00000020654	0.1628416	0.5586714
Nadk ENSMUSG00000029063	0.1091235	0.5586714

Ras112 ENSMUSG00000041696	-0.2252435	0.5590646
Plk4 ENSMUSG00000025758	-0.1397729	0.5592272
Zbtb34 ENSMUSG00000068966	0.2239083	0.5593872
Ormdl1 ENSMUSG00000026097	-0.3181831	0.5593872
Mtrf1 ENSMUSG00000022022	-0.3629769	0.5595476
Ccdc14 ENSMUSG00000022833	-0.2419294	0.5598814
Higd2a ENSMUSG00000025868	0.1306701	0.5598814
Ubl5 ENSMUSG00000084786	-0.1832122	0.5599012
Ascc1 ENSMUSG00000044475	0.1795473	0.5599012
Galnt2 ENSMUSG00000089704	0.4732099	0.5599012
Rps24 ENSMUSG00000025290	-0.1692158	0.5599012
Uap1 ENSMUSG00000026670	0.1135939	0.5599012
Sypl ENSMUSG00000020570	-0.1216331	0.5599012
Dnajc1 ENSMUSG00000026740	-0.1452807	0.5599012
Tcf4 ENSMUSG00000053477	-0.1186451	0.5599012
Sf3b2 ENSMUSG00000024853	0.1043189	0.5599012
Dok7 ENSMUSG00000044716	-1.192499	0.5599012
Dpp9 ENSMUSG00000001229	0.110113	0.5599012
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Zfp280c ENSMUSG00000036916	-0.253468	0.5599012
Klf13 ENSMUSG00000052040	0.1244532	0.5599012
Gmppb ENSMUSG00000070284	0.1570888	0.5599443
Gm4950 ENSMUSG00000069379	0.2914948	0.5599443
Ppp1r15b ENSMUSG0000004606	0.1127517	0.5599443
Adcy6 ENSMUSG00000022994	0.1181072	0.5601353
Rnf145 ENSMUSG00000019189	0.1082591	0.5601353
Zdhhc2 ENSMUSG00000039470	-0.2166751	0.5603795
Aspm ENSMUSG00000033952	-0.2281107	0.5603795
Riok1 ENSMUSG00000021428	-0.1297837	0.5603795
Lrrc47 ENSMUSG00000029028	0.128439	0.5603795
Fam57a ENSMUSG00000069808	0.1270267	0.5603795
Cx3c11 ENSMUSG00000031778	0.1045795	0.5603795
Zfyve27 ENSMUSG00000018820	0.1189723	0.5603795
Ube4b ENSMUSG00000028960	0.1111571	0.5603795
Cenpu ENSMUSG00000031629	-0.2004076	0.5603795
Nrros ENSMUSG00000052384	0.6847424	0.5603795
Vash2 ENSMUSG00000037568	-0.1504792	0.5603795
Glul ENSMUSG00000026473	0.125022	0.5603795
Vps52 ENSMUSG00000024319	0.1202718	0.5603795
Arid3a ENSMUSG00000019564	0.2055605	0.5603795
D6Wsu163e ENSMUSG00000030	0.1842006	0.5603795
Glce ENSMUSG00000032252	-0.185462	0.5603795
Nckap1 ENSMUSG00000027002	-0.1187948	0.5603795
P3h3 ENSMUSG00000023191	-0.2358471	0.5605721
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Car5a ENSMUSG00000025317	-1.3145906	0.5607085
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Mnd1 ENSMUSG00000033752	-0.2389886	0.5609121
Rsph3b ENSMUSG00000023806	0.1995076	0.5609612
Atf1 ENSMUSG00000023027	-0.1101562	0.5609612
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Acat3 ENSMUSG00000062480	-0.584438	0.5609612
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Mast1 ENSMUSG00000053693	-0.7856719	0.5614464
Krt10 ENSMUSG00000019761	-0.3032753	0.561705
Btbd7 ENSMUSG00000041702	-0.1271077	0.562
Tln1 ENSMUSG00000028465	0.1079548	0.562
Flrt1 ENSMUSG00000047787	0.2836187	0.5622489
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Hexim1 ENSMUSG00000048878	-0.1214618	0.5624859
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Cbx1 ENSMUSG00000018666	0.1044358	0.5626293
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Rictor ENSMUSG00000050310	-0.1898414	0.5635612
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Mcam ENSMUSG00000032135	-0.1589319	0.5635612
Arpc3 ENSMUSG00000029465	0.1080811	0.5636165
Fxn ENSMUSG00000059363	0.1298249	0.5636165
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Ptrhd1 ENSMUSG00000096199	-0.266991	0.5636165
Zfp326 ENSMUSG00000029290	-0.1473663	0.5637819
Commd9 ENSMUSG00000027165	-0.1597808	0.5638511
Setd7 ENSMUSG00000037111	0.1267622	0.5638511
Ergic1 ENSMUSG00000001576	0.1083709	0.5638511
Arntl ENSMUSG00000055116	0.1983915	0.5638511
Pros1 ENSMUSG00000022912	0.1219203	0.5640793
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Mki67 ENSMUSG00000031004	-0.127898	0.5665936
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Gstm7 ENSMUSG00000004035	0.3777787	0.5674797
Epor ENSMUSG00000006235	0.3775811	0.5674797
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Fam69c ENSMUSG00000047992	0.2905149	0.568408
Lamtor2 ENSMUSG00000028062	-0.1116283	0.5684138
Lpl ENSMUSG00000015568	-0.1439499	0.5684138
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Rars2 ENSMUSG00000028292	-0.1731016	0.5684138
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Ube2k ENSMUSG00000029203	-0.1145685	0.568738
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Bola3 ENSMUSG00000045160	-0.1612314	0.5696151
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Mapkapk2 ENSMUSG0000001652	0.1091111	0.5696151
Trim35 ENSMUSG00000022043	0.1106104	0.5696151
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Lrrfip2 ENSMUSG00000032497	-0.1838449	0.5706551
Brd3os ENSMUSG00000109946	0.2667918	0.5711558
Ccni ENSMUSG00000063015	0.1075145	0.5713295
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Kantr ENSMUSG00000087403	-0.2927669	0.5718808
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Chtf8 ENSMUSG00000046691	0.1050416	0.5778106
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Recql ENSMUSG00000030243	0.1674173	0.5781043
Inpp5a ENSMUSG00000025477	0.1298016	0.5781043
Ralb ENSMUSG00000004451	0.1123162	0.5781043
Spats2 ENSMUSG00000051934	0.1343317	0.5781043
Asf1b ENSMUSG00000005470	-0.1085892	0.5784821
Peli3 ENSMUSG00000024901	0.6622615	0.5784821
Gtpbp1 ENSMUSG00000042535	0.1071812	0.5784821
Ankrd13c ENSMUSG0000003998	-0.117067	0.5784821
Casd1 ENSMUSG00000015189	-0.251707	0.5784821
Cpox ENSMUSG00000022742	0.1735759	0.5787723
Aak1 ENSMUSG00000057230	0.177489	0.5788912
Lars ENSMUSG00000024493	-0.1067758	0.5791147
Tpst2 ENSMUSG00000029344	-0.1075336	0.5791147
Rnf122 ENSMUSG00000039328	-0.1993027	0.579274
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Cir1 ENSMUSG000000041777	-0.2883066	0.5809068
Git1 ENSMUSG000000011877	0.1064042	0.5810404
Smc2 ENSMUSG000000028312	-0.1551141	0.5811245
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Parpbp ENSMUSG000000035365	-0.2954693	0.5814765
Arl4a ENSMUSG000000047446	0.4502844	0.5823177
Fuca1 ENSMUSG000000028673	-0.1266171	0.5825006
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Mical3 ENSMUSG000000051586	0.1513188	0.5830007
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Ankib1 ENSMUSG000000040351	-0.1384147	0.5836472
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Kank1 ENSMUSG000000032702	-0.3983022	0.5857135
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Tmem2 ENSMUSG000000024754	0.1376374	0.5866347

Plk5 ENSMUSG00000035486	-1.0924452	0.5866347
Ndufv3 ENSMUSG00000024038	0.1427862	0.5866347
Ccl7 ENSMUSG00000035373	0.1195759	0.5866347
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Dpf1 ENSMUSG00000030584	0.152771	0.5871237
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Chd4 ENSMUSG00000063870	0.1024161	0.5875514
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Usf3 ENSMUSG00000068284	0.2235491	0.5875966
Amn ENSMUSG00000021278	1.2455209	0.5875966
Surf4 ENSMUSG00000014867	0.1006743	0.5875966
Nfib ENSMUSG00000008575	-0.1655339	0.5875966
Wtip ENSMUSG00000036459	-0.1334786	0.5877159
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Pomk ENSMUSG00000037251	-0.1525488	0.5877644
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Tacc2 ENSMUSG00000030852	-0.1130647	0.5879392
Xpo5 ENSMUSG00000067150	0.1024148	0.5879392
Kdm6a ENSMUSG00000037369	-0.2213953	0.5879392
Zw10 ENSMUSG00000032264	0.1336315	0.5879392
Snx19 ENSMUSG00000031993	0.1330232	0.5879392
Srd5a3 ENSMUSG00000029233	0.1613883	0.5879392
Tenm3 ENSMUSG00000031561	0.3173924	0.5879392
Tgfbr1 ENSMUSG00000007613	-0.2078172	0.5879392
Atp13a1 ENSMUSG00000031862	0.1026144	0.5879392
Rps3a1 ENSMUSG00000028081	-0.1350763	0.5879392
Tox4 ENSMUSG00000016831	0.1125165	0.5879401
Vrk2 ENSMUSG00000064090	-0.2139295	0.5881222
Psmf1 ENSMUSG00000032869	0.1193283	0.5888586
Fam107b ENSMUSG00000026652	-0.1260517	0.5888586
Zdhhc13 ENSMUSG00000030471	-0.2106059	0.5888586
Endod1 ENSMUSG00000037419	0.3001727	0.5888586
Shroom1 ENSMUSG00000018387	-0.2498477	0.5891005
Pxmp2 ENSMUSG00000029499	0.3615389	0.5891496
Sugp2 ENSMUSG00000036054	-0.1411381	0.5891909
Gm527 ENSMUSG00000047227	0.4948364	0.5893468
Mcm8 ENSMUSG00000027353	-0.2373528	0.5893468

Chrm4 ENSMUSG00000040495	-0.7925734	0.5893468
Arhgap5 ENSMUSG00000035133	0.1942187	0.5893468
Snrnp200 ENSMUSG00000003661	0.11762	0.5898787
Prrc2c ENSMUSG00000040225	0.1313344	0.5899302
Zfp740 ENSMUSG00000046897	0.1087196	0.5900728
Arhgef10 ENSMUSG0000004096	-0.1437562	0.590085
Hemk1 ENSMUSG00000032579	-0.1928111	0.5903425
Star ENSMUSG00000031574	-0.2863782	0.5905071
Fam13c ENSMUSG00000043259	0.283076	0.5905071
Ccnd1 ENSMUSG00000070348	-0.1790269	0.5906123
Mettl7a1 ENSMUSG00000054619	0.4553478	0.5910996
Cnot6 ENSMUSG00000020362	-0.1195577	0.5915901
Nemp1 ENSMUSG00000040195	0.1223397	0.5920551
Prpf39 ENSMUSG00000035597	-0.185315	0.5924089
Bbs5 ENSMUSG00000063145	-0.282512	0.5928317
Il27ra ENSMUSG00000005465	0.7141884	0.5928317
Gm7879 ENSMUSG00000033036	0.5299321	0.5928317
Rap1gap2 ENSMUSG0000003880	0.293469	0.5934387
Helz ENSMUSG00000020721	0.1531313	0.5934677
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Kntc1 ENSMUSG00000029414	-0.1812995	0.5934677
Nek1 ENSMUSG00000031644	-0.3220521	0.5934677
Zfp943 ENSMUSG00000053347	0.4326808	0.5934677
Otud1 ENSMUSG00000043415	0.2206003	0.5934677
Igfbp5 ENSMUSG00000026185	-0.767465	0.5934677
Dnd1 ENSMUSG00000044595	-0.3123892	0.5934677
Mindy4 ENSMUSG00000038022	0.2621665	0.5934677
Ftsj3 ENSMUSG00000020706	-0.110556	0.5934677
Impdh1 ENSMUSG00000003500	0.1053857	0.5934677
Lacc1 ENSMUSG00000044350	0.1999391	0.5934677
Exo5 ENSMUSG00000028629	-0.1684444	0.5935931
Serpib6a ENSMUSG0000006014	-0.1195581	0.5942111
Mmp19 ENSMUSG00000025355	0.1455569	0.5942203
Dnase1l2 ENSMUSG00000024136	-0.3811381	0.5943784
Frk ENSMUSG00000019779	-0.3570904	0.5943784
Gla ENSMUSG00000031266	0.122607	0.5943784
Bcl2l1 ENSMUSG00000007659	-0.1185952	0.5947119
Krit1 ENSMUSG00000000600	-0.1925439	0.5951528
Tbcc ENSMUSG00000036430	-0.1248249	0.5952254
Sh3bgrl ENSMUSG00000031246	-0.1470231	0.5952254
Ndufs1 ENSMUSG00000025968	-0.1202274	0.5956621
Cgnl1 ENSMUSG00000032232	-0.2482974	0.5958123
Ank3 ENSMUSG00000069601	0.1852651	0.5958123
Uchl1 ENSMUSG00000029223	-0.2099341	0.5961267
Acp1 ENSMUSG00000044573	-0.1080342	0.5961267
Xylt1 ENSMUSG00000030657	0.1812327	0.5961267
Resf1 ENSMUSG00000032712	-0.2078307	0.5962526
Cisd1 ENSMUSG00000037710	0.1236499	0.5962526
Atrn ENSMUSG00000027312	0.1346075	0.5962526
Nab1 ENSMUSG00000002881	-0.1445518	0.5962526
Prrg4 ENSMUSG00000027171	0.5307679	0.5962526
Adam12 ENSMUSG00000054555	-0.1886536	0.5962526
Twf1 ENSMUSG00000022451	-0.1070946	0.5962526



Gjb5 ENSMUSG00000042357	-1.2198783	0.5962526
Crkl ENSMUSG00000006134	0.1215969	0.5962526
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Enox1 ENSMUSG00000022012	0.3473219	0.5962526
Arsb ENSMUSG00000042082	0.1512363	0.5962526
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Suv39h1 ENSMUSG00000039231	0.1008794	0.5962526
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Fam219b ENSMUSG00000032302	-0.1637454	0.5962526
Eif2b3 ENSMUSG00000028683	-0.1333513	0.5962526
Npr1 ENSMUSG00000027931	0.342199	0.5962802
Zfp668 ENSMUSG00000049728	-0.1419375	0.5962802
Adck5 ENSMUSG00000022550	-0.1242778	0.5962802
Elk4 ENSMUSG00000026436	-0.142317	0.5962802
Ndufa5 ENSMUSG00000023089	-0.1927946	0.5962802
Igsf8 ENSMUSG00000038034	0.1054789	0.5962802
Nedd1 ENSMUSG00000019988	-0.1491005	0.5974893
Nkrf ENSMUSG00000044149	-0.2150269	0.5975419
Btn1a1 ENSMUSG00000000706	1.1599585	0.5984838
Ddx24 ENSMUSG00000041645	0.103465	0.5984838
Neur11b ENSMUSG00000034413	-0.3062704	0.5985731
Uaca ENSMUSG00000034485	0.1045622	0.5990135
Six4 ENSMUSG00000034460	-0.2672202	0.5991976
Hmgb3 ENSMUSG00000015217	-0.1207554	0.5994968
AU041133 ENSMUSG0000000784	1.2499162	0.5997367
Flot1 ENSMUSG00000059714	0.1187945	0.5997367
Tnrc6c ENSMUSG00000025571	0.1238918	0.5997384
Prc1 ENSMUSG00000038943	-0.1062613	0.5998216
Dok2 ENSMUSG00000022102	-0.6568463	0.5998216
Zbtb24 ENSMUSG00000019826	-0.185641	0.5998216
Chmp1b ENSMUSG00000109901	-0.1582982	0.5998216
Gls ENSMUSG00000026103	-0.1156897	0.5998216
Ifi44 ENSMUSG00000028037	-0.1283843	0.5998216
Zfp53 ENSMUSG00000057409	-0.2690732	0.6006932
Arhgef18 ENSMUSG00000004568	0.1277941	0.6006932
Pctp ENSMUSG00000020553	-0.2393251	0.6006932
Unkl ENSMUSG00000015127	0.2291488	0.6006932
Mphosph6 ENSMUSG0000003184	-0.142916	0.6006932
Atat1 ENSMUSG00000024426	-0.1623622	0.6006932
Ubr3 ENSMUSG00000044308	-0.1564579	0.60237
Hyal1 ENSMUSG00000010051	0.4276923	0.6033047
Sap30bp ENSMUSG00000020755	-0.1122192	0.6036002
Arnt ENSMUSG00000015522	0.1005173	0.6036002
Ythdf1 ENSMUSG00000038848	0.1046652	0.6036002
Cenph ENSMUSG00000045273	-0.1538787	0.6036002
Sh3pxd2a ENSMUSG0000005361	0.1083187	0.6036002
mt-Nd3 ENSMUSG00000064360	-0.2362278	0.6037163
Mmp13 ENSMUSG00000050578	-0.9035359	0.6047267
Sumf1 ENSMUSG00000030101	0.1377838	0.6047267
Ikbip ENSMUSG00000019975	-0.1658292	0.6047267
Gm28557 ENSMUSG0000010023	-1.0155523	0.6047267
Dgkd ENSMUSG00000070738	0.1268655	0.6047267
Rdh10 ENSMUSG00000025921	-0.1938239	0.6050596

Tmed1 ENSMUSG00000032180	-0.1147283	0.6050596
Cops5 ENSMUSG00000025917	-0.1178631	0.6050597
Rgs16 ENSMUSG00000026475	0.2018055	0.6050597
Rab5if ENSMUSG00000027637	0.1143962	0.6050597
Afg3l2 ENSMUSG00000024527	0.1063202	0.6050597
Ap5z1 ENSMUSG00000039623	-0.1520707	0.6050597
Shisa4 ENSMUSG00000041889	-0.273996	0.6050597
Trim30a ENSMUSG00000030921	0.2635174	0.6050597
Pphln1 ENSMUSG00000036167	-0.1172229	0.6050597
Rapgef6 ENSMUSG00000037533	-0.2193599	0.6050597
Tbx18 ENSMUSG00000032419	-0.3108518	0.6050597
Plp2 ENSMUSG00000031146	0.1016606	0.6050597
Jup ENSMUSG00000001552	0.1244812	0.6050597
Cdk2ap1 ENSMUSG00000029394	-0.1031307	0.6050597
Xcr1 ENSMUSG00000060509	-0.6942562	0.6050597
Fam149a ENSMUSG00000070044	0.1321447	0.6050597
3110009E18Rik ENSMUSG000000	0.3913895	0.6054204
Guf1 ENSMUSG00000029208	-0.2482867	0.6054204
Haus3 ENSMUSG00000079555	-0.2328647	0.605488
Nek2 ENSMUSG00000026622	0.1099669	0.605488
Creld2 ENSMUSG00000023272	-0.1161159	0.6055429
Med13 ENSMUSG00000034297	-0.2003372	0.6055429
Map3k2 ENSMUSG00000024383	-0.2279412	0.6055429
Maged2 ENSMUSG00000025268	0.1087878	0.6055429
Apol9a ENSMUSG00000057346	0.1121246	0.6055429
Cp ENSMUSG00000003617	-0.0990071	0.605634
Wbp2 ENSMUSG00000034341	0.1098452	0.605634
Pard6b ENSMUSG00000044641	0.2693015	0.605634
Tmem243 ENSMUSG0000007965	0.253602	0.6063717
Mtmr6 ENSMUSG00000021987	-0.1480134	0.6063717
Nfyc ENSMUSG00000032897	-0.1243858	0.6063717
Ndufc2 ENSMUSG00000030647	-0.142592	0.6065309
Med15 ENSMUSG00000012114	0.1010177	0.6065309
Klc1 ENSMUSG00000021288	0.1033817	0.6065309
Tnfrsf14 ENSMUSG00000042333	0.3757937	0.6065309
Mrpl30 ENSMUSG00000026087	-0.1112921	0.6065309
Slc2a9 ENSMUSG00000005107	-0.5007816	0.6069544
Phf3 ENSMUSG00000048874	-0.1532972	0.6069544
Eif2ak2 ENSMUSG00000024079	-0.1029674	0.6070156
Abcb1b ENSMUSG00000028970	0.1250297	0.6070156
Lpar2 ENSMUSG00000031861	-0.1730798	0.6070156
Ndufa9 ENSMUSG00000000399	0.1127622	0.6072418
Larp6 ENSMUSG00000034839	-0.2445299	0.6072418
Sumo1 ENSMUSG00000026021	-0.1156164	0.6072508
Cox19 ENSMUSG00000045438	-0.1434836	0.607779
Luzp1 ENSMUSG00000001089	-0.1107939	0.60803
Siglecg ENSMUSG00000030468	-0.2047919	0.6083384
Il34 ENSMUSG00000031750	-0.603339	0.6085015
Numa1 ENSMUSG00000066306	0.1064489	0.6085609
Dlgap5 ENSMUSG00000037544	-0.1133183	0.6085609
Aknad1 ENSMUSG00000049565	0.8853939	0.6093004
Rbm25 ENSMUSG00000010608	-0.1095219	0.6094085
Spata24 ENSMUSG00000024352	-0.3053328	0.6095026

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Dusp14 ENSMUSG00000018648	-0.2196865	0.6096483
Ifnz ENSMUSG00000096854	-1.0088615	0.6096483
Sln8 ENSMUSG00000035208	0.210699	0.6096483
Zfx2 ENSMUSG00000040721	0.2639685	0.6096483
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Pola1 ENSMUSG0000006678	-0.2013759	0.6097894
Dis3 ENSMUSG00000033166	-0.1211864	0.6098265
Pdgfra ENSMUSG00000029231	-0.1683371	0.609884
March8 ENSMUSG00000025702	0.1177439	0.6099927
Ints4 ENSMUSG00000025133	-0.1436228	0.6099927
B4galnt2 ENSMUSG00000013418	0.5080386	0.610257
Srrm1 ENSMUSG00000028809	0.1037146	0.610265
MacroD1 ENSMUSG00000036278	0.1373292	0.6102785
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Gpr153 ENSMUSG00000042804	-0.0992415	0.6104281
Dtl ENSMUSG00000037474	-0.1325594	0.6104281
Mospd1 ENSMUSG00000023074	-0.3249778	0.6104281
Myo7a ENSMUSG00000030761	-0.2289415	0.6104281
HnrnpII ENSMUSG00000024095	-0.1035774	0.6104281
Kmt2e ENSMUSG00000029004	0.2173194	0.6104725
G3bp2 ENSMUSG00000029405	0.0990806	0.6104725
Grk4 ENSMUSG00000052783	-0.7154652	0.6104725
Zfp747 ENSMUSG00000054381	0.2252096	0.6109098
Atf3 ENSMUSG00000026628	0.1963149	0.6109098
Pdcd2l ENSMUSG00000002635	-0.1636715	0.6109098
Tsku ENSMUSG00000049580	0.1204237	0.6124467
Slc9a1 ENSMUSG00000022372	-0.8917769	0.6126091
Cd276 ENSMUSG00000035914	0.1052912	0.6126091
M6pr ENSMUSG00000007458	0.1000272	0.6127204
Clec2d ENSMUSG00000030157	0.153462	0.612939
Atm ENSMUSG00000034218	0.1812491	0.6130094
Ankrd29 ENSMUSG00000057766	-0.443791	0.6130135
Slc9a1 ENSMUSG00000028854	0.0989318	0.6130359
Ccdc134 ENSMUSG00000068114	-0.140779	0.6130359
Casp6 ENSMUSG00000027997	0.1406156	0.6132254
Rad23a ENSMUSG00000003813	0.128441	0.6139275
Akr1b3 ENSMUSG00000001642	0.0978013	0.6146586
En1 ENSMUSG00000058665	0.0971116	0.6146586
Cemip ENSMUSG00000052353	0.4322814	0.614782
Sar1b ENSMUSG00000020386	-0.1339355	0.6152238
Rap2a ENSMUSG00000051615	0.1501991	0.6152238
Samd4 ENSMUSG00000021838	0.1135586	0.6152238
Col4a3bp ENSMUSG00000021661	-0.1647389	0.6157068
Sde2 ENSMUSG00000038806	0.1205924	0.6163357
Morn5 ENSMUSG00000026894	-0.891027	0.6163736
Il1rap ENSMUSG00000022514	-0.1234046	0.6168313
Phf12 ENSMUSG00000037791	0.1116766	0.6168313
Cdk19 ENSMUSG00000038481	-0.1755123	0.6168313
Exosc5 ENSMUSG00000061286	0.1160686	0.6169173
Cybc1 ENSMUSG00000039294	0.1132279	0.6169173
Tnrc6b ENSMUSG00000047888	-0.1312505	0.6169173
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Abhd11 ENSMUSG00000040532	-0.1464472	0.6171572
Rbm12 ENSMUSG00000089824	-0.1802932	0.6171572
Itga11 ENSMUSG00000032243	0.4167868	0.6171572
Nelfb ENSMUSG00000013465	0.1050491	0.6171572
Pitpnc1 ENSMUSG00000040430	0.3865555	0.6176158
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Golph3 ENSMUSG00000022200	-0.1076583	0.6183654
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Trnt1 ENSMUSG00000013736	-0.167345	0.6183654
Elp3 ENSMUSG00000022031	0.1046744	0.6187815
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Fez2 ENSMUSG00000056121	-0.1131746	0.6190804
Hoxc5 ENSMUSG00000022485	-0.1146612	0.6190804
Myo1h ENSMUSG00000066952	0.3429693	0.6190804
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Edc3 ENSMUSG00000038957	0.1213711	0.6194675
Gm19684 ENSMUSG0000009227	0.6865648	0.6194675
Podnl1 ENSMUSG00000012889	-0.2097377	0.6194675
Klh129 ENSMUSG00000020627	-0.4300281	0.6194845
Cdk20 ENSMUSG00000021483	-0.2222037	0.6195097
Piwil4 ENSMUSG00000036912	0.5641039	0.6195097
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Iars2 ENSMUSG00000026618	0.1106892	0.6195097
Clpb ENSMUSG00000001829	0.1112767	0.6195097
Snx1 ENSMUSG00000032382	0.0978495	0.6195097
Sirt6 ENSMUSG00000034748	0.131138	0.6195134
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Rnf121 ENSMUSG00000070426	-0.1258129	0.6199443
Syde1 ENSMUSG00000032714	0.1018582	0.6199443
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Set ENSMUSG00000054766	-0.0970637	0.6199443
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Kifap3 ENSMUSG00000026585	-0.178881	0.6199443
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Ndufb3 ENSMUSG00000026032	-0.2030285	0.6208261
Cyth2 ENSMUSG00000003269	-0.1045082	0.6208305
Beam ENSMUSG00000002980	-0.3998032	0.6208305
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Cdsn ENSMUSG00000039518	-0.1911621	0.6246072
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Rnf111 ENSMUSG00000032217	0.1421242	0.625055
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Mdga1 ENSMUSG00000043557	0.1475381	0.625055
Uvssa ENSMUSG00000037355	-0.2249947	0.625055
Fundc1 ENSMUSG00000025040	-0.1759448	0.625055
Xrn1 ENSMUSG00000032410	-0.1464268	0.625055
Clcn2 ENSMUSG00000022843	-0.2367278	0.625055
Phactr2 ENSMUSG00000062866	0.4620952	0.625055
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Dusp15 ENSMUSG00000042662	-1.0140495	0.6253909
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Timm10 ENSMUSG00000027076	-0.1285326	0.6260736
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Tmub1 ENSMUSG00000028958	0.2041717	0.6280333
Ache ENSMUSG00000023328	-0.6322538	0.6280333

Edc4 ENSMUSG00000036270	0.0961662	0.6280333
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Rasa1 ENSMUSG00000021549	-0.1596076	0.6282289
Wnt10a ENSMUSG00000026167	0.5829058	0.6282289
Eif3e ENSMUSG00000022336	-0.096086	0.6286735
Cars2 ENSMUSG00000056228	-0.1443174	0.6286735
Cxcl2 ENSMUSG00000058427	0.4817275	0.6287407
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Lhx2 ENSMUSG00000000247	0.5266692	0.6287407
Birc3 ENSMUSG00000032000	0.1902874	0.6295367
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Zfp580 ENSMUSG00000055633	0.194682	0.629917
Grik5 ENSMUSG00000003378	-0.2870227	0.629917
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Itfg2 ENSMUSG00000001518	-0.132764	0.629917
Dnaaf3 ENSMUSG00000055809	0.4252024	0.629917
Abl1 ENSMUSG00000026842	0.0996259	0.629917
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Atp13a3 ENSMUSG00000022533	-0.1301384	0.629917
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Mzt1 ENSMUSG00000033186	-0.1199303	0.6301073
Ndel1 ENSMUSG00000018736	0.1067046	0.6301073
Lox ENSMUSG00000024529	-0.1034633	0.6301073
Srsf7 ENSMUSG00000024097	-0.1002573	0.6301073
Stam ENSMUSG00000026718	-0.1511136	0.6301118
Rufy2 ENSMUSG00000020070	-0.1970982	0.6301118
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Casp8ap2 ENSMUSG0000002828	-0.2439201	0.6301118
Ap1s1 ENSMUSG00000004849	-0.0998648	0.6301118
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Ywhaq ENSMUSG00000076432	-0.0992066	0.6302339
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Chek2 ENSMUSG00000029521	0.2163785	0.6302339
Wdr33 ENSMUSG00000024400	0.0982933	0.6302339
Sptssa ENSMUSG00000044408	-0.1065274	0.6302339
Cryz11 ENSMUSG00000058240	-0.1623467	0.6302339
Ube2cbp ENSMUSG00000032415	0.1580669	0.6302339
Selenop ENSMUSG00000064373	-0.7026567	0.6302339
Acadm ENSMUSG00000062908	-0.156449	0.6302339
Gas7 ENSMUSG00000033066	0.1907579	0.6303999
Rnaseh2b ENSMUSG0000002193	-0.1948931	0.6303999
Rec114 ENSMUSG00000074269	0.9452637	0.6304155
Hspa4 ENSMUSG00000020361	-0.0949889	0.6304155
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Dnajb4 ENSMUSG00000028035	-0.212398	0.6305268
Sprr2k ENSMUSG00000054215	-0.4808762	0.6306466
Mrpl33 ENSMUSG00000106918	-0.1558301	0.6306466
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Anxa4 ENSMUSG00000029994	0.100389	0.6317895
D10Jhu81e ENSMUSG000000533	0.1346999	0.6318086
Cables1 ENSMUSG00000040957	0.2298277	0.6318603
Ttc21b ENSMUSG00000034848	-0.1927133	0.6325886
Rnf217 ENSMUSG00000063760	0.1261446	0.6325886
Itpr2 ENSMUSG00000030287	0.2838745	0.6325886
Mon1b ENSMUSG00000078908	0.1415847	0.6325886
Natd1 ENSMUSG00000018931	0.1669147	0.6329878
Vps37d ENSMUSG00000043614	-0.2177285	0.6329878
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Taf1 ENSMUSG00000031314	-0.154367	0.6335067
Ephb2 ENSMUSG00000028664	-0.1879695	0.6335067
Calcoco1 ENSMUSG00000023054	0.1129183	0.6335067
Abcb7 ENSMUSG00000031333	-0.2570399	0.6335695
Zfp57 ENSMUSG00000036036	-0.1385761	0.633755
Chad ENSMUSG00000039084	0.5134079	0.633755
Stk16 ENSMUSG00000026201	0.1030265	0.633755
Sh3bp5l ENSMUSG00000013646	0.1061532	0.633755
C9orf72 ENSMUSG00000028300	-0.2224739	0.633755
Cacna1h ENSMUSG00000024112	-0.758963	0.6339453
Igfbp7 ENSMUSG00000036256	0.0954164	0.633947
Sdccag3 ENSMUSG00000026927	-0.1200317	0.6342395
Itm2c ENSMUSG00000026223	0.1031752	0.6342709
Farp1 ENSMUSG00000025555	0.1080684	0.6342709
Slc46a1 ENSMUSG00000020829	0.2942011	0.6342709
Hsf2 ENSMUSG00000019878	-0.2060649	0.6342865
Tmx4 ENSMUSG00000034723	-0.1893715	0.6344784
Ten1 ENSMUSG00000020778	0.1710933	0.6344784
Sgsm1 ENSMUSG00000042216	-1.1000666	0.6344784
Tshz1 ENSMUSG00000046982	0.1222815	0.6344784
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Phyh ENSMUSG00000026664	0.2117282	0.6344784
Fbxw7 ENSMUSG00000028086	-0.1467851	0.6344784
Pradc1 ENSMUSG00000030008	-0.1851068	0.6344784
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Dbld2 ENSMUSG00000035107	-0.0997931	0.6344784
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Skil ENSMUSG00000027660	-0.1532177	0.6350445
Smpd1 ENSMUSG00000037049	0.1308722	0.635115
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Slc26a10 ENSMUSG00000040441	-0.5419556	0.6352805
Wdfy1 ENSMUSG00000073643	0.1439601	0.6352805
Pbxip1 ENSMUSG00000042613	0.131125	0.6354897
Wnk3 ENSMUSG00000041245	-0.9414342	0.6355454
Smpd3 ENSMUSG00000031906	0.3880202	0.6355454
Gm4070 ENSMUSG00000078606	0.6390603	0.6356383
Cd14 ENSMUSG00000051439	0.2034942	0.6356383

Nudt15 ENSMUSG00000033405	0.4811036	0.6357155
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Ext2 ENSMUSG00000027198	0.1010361	0.6360306
Sertad2 ENSMUSG00000049800	0.1178551	0.6360306
Polr2f ENSMUSG00000033020	-0.1009319	0.6361177
Pot1b ENSMUSG00000024174	-0.26072	0.6362612
Uba21 ENSMUSG00000042520	0.096378	0.6364355
Uqcrq ENSMUSG00000044894	-0.1236021	0.6364355
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Hoxb3 ENSMUSG00000048763	0.2745867	0.6364462
Fam83c ENSMUSG00000074647	0.5264421	0.6364462
Mical2 ENSMUSG00000038244	0.107878	0.6364462
Paxip1 ENSMUSG00000002221	0.0949222	0.6364462
Uba6 ENSMUSG00000035898	-0.2064527	0.6365233
Rpl5 ENSMUSG00000058558	-0.120521	0.6365233
Trpt1 ENSMUSG00000047656	-0.2040784	0.6365233
Gpx4 ENSMUSG00000075706	-0.1102336	0.6365233
Napg ENSMUSG00000024581	-0.1191087	0.6365233
Qtrt2 ENSMUSG00000022704	-0.1278355	0.6365233
Pdia6 ENSMUSG00000020571	0.095587	0.6365233
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Pnpla8 ENSMUSG00000036257	-0.2385904	0.6370782
Klrg2 ENSMUSG00000071537	0.3591756	0.63713
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Tada1 ENSMUSG00000026563	0.2814205	0.6374376
Pde5a ENSMUSG00000053965	-0.5196301	0.6377565
Snrpg ENSMUSG00000057278	-0.1486528	0.6377565
Dnajc21 ENSMUSG00000044224	-0.1479494	0.6377565
Nedd8 ENSMUSG00000010376	-0.1226398	0.6377565
Spin2c ENSMUSG00000046550	0.6436335	0.6377565
Kbtbd11 ENSMUSG00000055675	-0.6565	0.6377565
Zfp39 ENSMUSG00000037001	-0.4066957	0.6377565
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Eef2 ENSMUSG00000034994	0.0897587	0.6377565
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Slbp ENSMUSG00000004642	-0.1056237	0.6379824
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Ankrd2 ENSMUSG00000025172	-1.1077959	0.6382086
Cep41 ENSMUSG00000029790	-0.2337087	0.6382086
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Zfp59 ENSMUSG00000078779	-0.2668602	0.6385292
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Specc11 ENSMUSG00000033444	0.1076987	0.6390921
Rps10 ENSMUSG00000052146	0.1599748	0.6390921
Spire1 ENSMUSG00000024533	0.1037224	0.6390921
Dcun1d5 ENSMUSG00000032002	-0.1092708	0.6390921
Txn14a ENSMUSG00000057130	-0.1161446	0.6390921
Wbp11 ENSMUSG00000047731	0.0958554	0.6394254
Cmtm4 ENSMUSG00000096188	0.114644	0.6394254
C1rl ENSMUSG00000038527	0.2434118	0.6395854
Anapc10 ENSMUSG00000036977	-0.2218905	0.6398919
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Zfp729b ENSMUSG00000058093	-0.5790307	0.6400526
Lsm5 ENSMUSG00000091625	-0.1699217	0.6400641
Srgap3 ENSMUSG00000030257	-0.294471	0.6400664
Cd40 ENSMUSG00000017652	0.4354257	0.6401803
Siae ENSMUSG00000001942	0.3363307	0.6407678
Actn1 ENSMUSG00000015143	0.0919507	0.6407678
Hars2 ENSMUSG00000019143	-0.1168122	0.6408836
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Rfc4 ENSMUSG00000022881	-0.1157098	0.6410929
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Tarsl2 ENSMUSG00000030515	-0.2224473	0.641372
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Tnfsf9 ENSMUSG00000035678	0.2393452	0.641372
Haus5 ENSMUSG00000078762	-0.315513	0.6415849

Itpka ENSMUSG00000027296	0.3414457	0.6415849
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Prr12 ENSMUSG00000046574	0.0985149	0.6426708
Trip10 ENSMUSG00000019487	0.0974072	0.6432079
Dele1 ENSMUSG00000024442	-0.1032355	0.6432079
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Fam210a ENSMUSG00000038121	-0.1143189	0.6438068
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Pabpc4 ENSMUSG00000011257	0.0936267	0.6462362
Usmg5 ENSMUSG00000071528	-0.169561	0.6468369
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Vwa8 ENSMUSG00000058997	0.1398648	0.6485708
Cdc6 ENSMUSG00000017499	0.1052269	0.6486209
Phf6 ENSMUSG00000025626	-0.174224	0.6486209
Hsd12 ENSMUSG00000028383	-0.179942	0.6487155
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Ppm1e ENSMUSG00000046442	-0.3988838	0.6521154
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Eif4b ENSMUSG00000058655	0.0884687	0.6525477
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Gzf1 ENSMUSG00000027439	-0.1433283	0.6531665
Map3k5 ENSMUSG00000071369	0.2148908	0.6531665
Usp33 ENSMUSG00000025437	-0.2073606	0.6533368
Tmod2 ENSMUSG00000032186	-0.2662181	0.6533368
Ntmt1 ENSMUSG00000026857	-0.1047718	0.6533368
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AU040320 ENSMUSG000000288	0.1283526	0.6536052
Gng8 ENSMUSG00000063594	-0.3259967	0.6536052
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Grem1 ENSMUSG00000074934	-0.1133142	0.6536569
Socs7 ENSMUSG00000038485	0.1198208	0.6536569
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Fuz ENSMUSG00000011658	-0.2449301	0.6539528
Anp32e ENSMUSG00000015749	-0.0925693	0.6539528
Twist1 ENSMUSG00000035799	0.1031636	0.6539528
Pigl ENSMUSG00000014245	-0.2366034	0.6539528
Dhodh ENSMUSG00000031730	-0.1046291	0.6539528
Agfg2 ENSMUSG00000029722	0.1185713	0.6539528
Smim1012a ENSMUSG000000548	-0.837531	0.6539707
Pdzd2 ENSMUSG00000022197	0.4231883	0.6544767
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Gabarap11 ENSMUSG0000003016	0.1167655	0.6544767
Hist1h4f ENSMUSG00000069274	0.8740222	0.6544767
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Cnot4 ENSMUSG00000038784	0.1406322	0.6547806
Hsbp1 ENSMUSG00000031839	-0.1148858	0.6547806
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Trak2 ENSMUSG00000026028	0.1113211	0.6547806

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Jak2 ENSMUSG00000024789	-0.1038281	0.6547806
Lipt1 ENSMUSG00000037216	-0.293202	0.6547806
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Mcoln2 ENSMUSG00000011008	0.9576034	0.6553272
Fanca ENSMUSG00000032815	0.1119456	0.6553272
Msra ENSMUSG00000054733	0.18279	0.6553272
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Lmbr1 ENSMUSG00000022999	0.1293214	0.655329
Fer ENSMUSG00000000127	-0.15927	0.6554087
Fam204a ENSMUSG00000057858	-0.1659126	0.6554739
Fzr1 ENSMUSG00000020235	0.0942781	0.6554739
Lrig3 ENSMUSG00000020105	0.1103731	0.6559924
Sspl2a ENSMUSG00000027366	-0.0932924	0.6559924
Edn1 ENSMUSG00000021367	-0.3899395	0.6562428
Zbtb17 ENSMUSG00000006215	-0.1159501	0.6562428
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Fundc2 ENSMUSG00000031198	-0.1070507	0.6562428
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Sh2d3c ENSMUSG00000059013	0.2672094	0.6562428
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Gnaq ENSMUSG00000024639	-0.1051503	0.6562428
Scml4 ENSMUSG00000044770	-1.0009246	0.6562428
Ifi205 ENSMUSG00000054203	0.2155094	0.6563388
Cspg5 ENSMUSG00000032482	0.6858184	0.6563388
Rexo2 ENSMUSG00000032026	0.1020767	0.6563388
Msh2 ENSMUSG00000024151	0.101651	0.6563388
Lox1 ENSMUSG00000032334	0.0914238	0.656785
Rgs3 ENSMUSG00000059810	0.1687982	0.6569063
Lcor ENSMUSG00000025019	0.3363898	0.6569063
Ly96 ENSMUSG00000025779	-0.4917732	0.6573819
Ddx47 ENSMUSG00000030204	-0.0983651	0.657487
Osbp15 ENSMUSG00000037606	0.1059533	0.6574953
Gadd45b ENSMUSG00000015312	0.1060037	0.657874
Mrpl38 ENSMUSG00000020775	0.1003072	0.657874
Ptger4 ENSMUSG00000039942	0.24031	0.657874
Coq6 ENSMUSG00000021235	0.1232426	0.657874
Zfp593 ENSMUSG00000028840	-0.3615848	0.6579112
Hmbs ENSMUSG00000032126	-0.1139489	0.6579112
Bdh1 ENSMUSG00000046598	-0.6592508	0.6579486
Lin9 ENSMUSG00000058729	-0.1525703	0.6579486
Gmpr2 ENSMUSG00000002326	-0.2147751	0.6580881
Xrcc1 ENSMUSG00000051768	0.1055515	0.6581909
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Alkbh7 ENSMUSG00000002661	-0.2158773	0.6582883
Dclre1c ENSMUSG00000026648	-0.2323309	0.6591938
Tmem181a ENSMUSG000000381	0.1532642	0.6591938
Lor ENSMUSG00000043165	-0.756856	0.6591938
Zfp970 ENSMUSG00000078866	-0.8504983	0.6591938

Map3k1 ENSMUSG00000021754	0.14302	0.6591938
Abcd1 ENSMUSG00000031378	0.1663664	0.6591938
Hey1 ENSMUSG00000040289	0.5131336	0.6591938
Ube2s ENSMUSG00000060860	-0.0932472	0.6593062
Pex11b ENSMUSG00000028102	-0.1430787	0.6593062
Fbxl4 ENSMUSG00000040410	-0.2379904	0.6593062
Nfia ENSMUSG00000028565	-0.296676	0.6593062
Zfp367 ENSMUSG00000044934	-0.1386258	0.6593062
Nagk ENSMUSG00000034744	-0.1448954	0.6593062
Sarnp ENSMUSG00000078427	-0.1846961	0.6593062
Ubald1 ENSMUSG00000039568	0.0932763	0.6593062
Upk1a ENSMUSG00000006313	-0.5364672	0.6593062
Scarb1 ENSMUSG00000037936	0.0875451	0.6593062
Jagn1 ENSMUSG00000051256	-0.1142918	0.6593062
Mocs3 ENSMUSG00000074576	0.1805821	0.6593062
Gpatch1 ENSMUSG00000063808	-0.1738487	0.6593062
Cyb561a3 ENSMUSG0000003444	-0.2074865	0.6593062
Pms2 ENSMUSG00000079109	-0.1320667	0.6593062
Hmgn3 ENSMUSG00000066456	-0.1746361	0.6593062
Igsf23 ENSMUSG00000040498	-1.0042699	0.6593062
Tsc2 ENSMUSG00000002496	0.0958479	0.6593062
Ppp6r2 ENSMUSG00000036561	0.158567	0.6593062
Misp ENSMUSG00000035852	0.3283123	0.6593062
Hbs1 ENSMUSG00000019977	0.1088927	0.6593062
Noxred1 ENSMUSG00000072919	0.8802119	0.6593062
Lins1 ENSMUSG00000053091	-0.1717325	0.6593062
Grk2 ENSMUSG00000024858	-0.0940532	0.6593062
Nme7 ENSMUSG00000026575	0.1729166	0.6594053
Rarres1 ENSMUSG00000049404	-0.2705402	0.6594053
Gm10382 ENSMUSG0000007261	-0.7561748	0.6594053
no-name ENSMUSG00000095041	-0.1062022	0.6594053
Dhx40 ENSMUSG00000018425	-0.132431	0.6594053
Tef ENSMUSG00000022389	0.1121104	0.6594062
Glb1 ENSMUSG00000026200	-0.261884	0.6600496
Clock ENSMUSG00000029238	-0.2033736	0.660068
Tns3 ENSMUSG00000020422	0.1258743	0.660072
Zfp455 ENSMUSG00000051037	0.6977783	0.660072
Cpne2 ENSMUSG00000034361	0.0996844	0.6604589
Rtn2 ENSMUSG00000030401	-0.3376256	0.6605295
Isy1 ENSMUSG00000030056	-0.1147398	0.6607671
Polr3e ENSMUSG00000030880	-0.1098815	0.6610761
Gm9903 ENSMUSG00000097271	-1.0029399	0.6610761
Crebl2 ENSMUSG00000032652	0.2625084	0.6610761
Calr ENSMUSG00000003814	0.0918278	0.6610761
Abtb1 ENSMUSG00000030083	-0.1515199	0.6610761
Bloc1s3 ENSMUSG00000057667	-0.1990189	0.6610761
Nsg1 ENSMUSG00000029126	-0.1177064	0.6610761
Exd1 ENSMUSG00000048647	-0.738203	0.6610761
Wdr6 ENSMUSG00000066357	0.0954974	0.6610761
Gan ENSMUSG00000052557	0.119846	0.6610761
Ttc39b ENSMUSG00000038172	0.1121306	0.6610761
Fnbp1 ENSMUSG00000075415	0.1005554	0.6610761
Rab11fip1 ENSMUSG0000003148	0.1465742	0.6610761

Plekha5 ENSMUSG00000030231	-0.147799	0.6610761
Lrriq3 ENSMUSG00000028182	-1.0939665	0.6610761
Rara ENSMUSG00000037992	0.0951563	0.6610761
Rad51 ENSMUSG00000027323	0.0985014	0.6610761
Sfpq ENSMUSG00000028820	0.0876788	0.6610761
Rtkn ENSMUSG00000034930	-0.1496347	0.6610761
Ubqln1 ENSMUSG00000005312	0.0961553	0.6610761
Gba ENSMUSG00000028048	0.1008259	0.6610761
Pappa ENSMUSG00000028370	-0.2760796	0.6610761
Pak6 ENSMUSG00000074923	-0.8838941	0.6610761
Srebf1 ENSMUSG00000020538	0.0972785	0.6610761
Chchd1 ENSMUSG00000063787	-0.1085692	0.6610761
Ppp1r11 ENSMUSG00000036398	-0.1301505	0.6610761
Zkscan8 ENSMUSG00000063894	-0.2462478	0.6613096
Pigk ENSMUSG00000039047	-0.1217085	0.6622393
Atn1 ENSMUSG00000004263	-0.1809945	0.6624726
Pqbp1 ENSMUSG00000031157	-0.1004324	0.6625686
Arid1a ENSMUSG00000007880	0.1062296	0.6625883
Lactb ENSMUSG00000032370	-0.183053	0.6628063
Myadm ENSMUSG00000068566	0.0897018	0.6628063
Ttpal ENSMUSG00000017679	0.1146451	0.6628519
Ebna1bp2 ENSMUSG0000002872	-0.0956257	0.6630125
Nfix ENSMUSG00000001911	0.0894239	0.6633675
Spock2 ENSMUSG00000058297	-0.2192422	0.6634212
Lanc12 ENSMUSG00000062190	0.1372008	0.6634212
Hdhd5 ENSMUSG00000058979	0.2024707	0.6636182
Ehmt1 ENSMUSG00000036893	0.0991804	0.6636182
Rps6ka1 ENSMUSG00000003644	0.1418385	0.6636182
Zbtb14 ENSMUSG00000049672	-0.1834164	0.6636182
Cct4 ENSMUSG00000007739	-0.0954719	0.6636966
Pcyt1a ENSMUSG00000005615	0.1070377	0.6642079
Pthr2 ENSMUSG00000072582	-0.1106135	0.6642079
Nmi ENSMUSG00000026946	0.1403738	0.664598
Slc7a11 ENSMUSG00000027737	0.255413	0.6646759
Spty2d1 ENSMUSG00000049516	0.139904	0.6647054
Pithd1 ENSMUSG00000028669	-0.1016049	0.6653406
Zscan21 ENSMUSG00000037017	-0.1612715	0.6655054
Mkxn2 ENSMUSG00000000439	0.1526636	0.6655647
Ift57 ENSMUSG00000032965	-0.1405149	0.6655647
Ctnna1 ENSMUSG00000037815	0.0904564	0.6656152
Rwdd1 ENSMUSG00000019782	-0.1149745	0.665828
Mtc11 ENSMUSG00000052105	-0.1564691	0.6659464
Tfll3 ENSMUSG00000030276	0.2114869	0.6659464
Ccdc28b ENSMUSG00000028795	0.2727615	0.6659464
Txlna ENSMUSG00000053841	0.0893096	0.6659464
Irf2bp1 ENSMUSG00000044030	0.0903604	0.6659464
Rdh12 ENSMUSG00000021123	0.3580868	0.6659464
Syt17 ENSMUSG00000058420	-0.1982559	0.6659464
Rnf128 ENSMUSG00000031438	-0.8117141	0.6660976
Cherp ENSMUSG00000052488	0.0892247	0.6660976
Ints2 ENSMUSG00000018068	-0.178696	0.6661471
Ppt2 ENSMUSG00000015474	0.1522709	0.6663769
Ahcy ENSMUSG00000027597	0.0874799	0.6664242

Fbx116 ENSMUSG00000025738	0.3047817	0.6664242
Vps51 ENSMUSG00000024797	-0.2260745	0.6667779
Stam2 ENSMUSG00000055371	-0.1271111	0.6672221
Gsdme ENSMUSG00000029821	-0.2363999	0.6672478
Ift140 ENSMUSG00000024169	0.1533073	0.6672478
Hoxb5 ENSMUSG00000038700	0.6202379	0.6672478
Rnaseh1 ENSMUSG00000020630	0.1126614	0.6672478
A3galt2 ENSMUSG00000028794	0.7646694	0.6672478
Dus4l ENSMUSG00000020648	-0.2992307	0.6672478
Tmed5 ENSMUSG00000063406	-0.1337565	0.6672478
Tmem38a ENSMUSG0000003179	0.2044482	0.6672478
Dynlt1c ENSMUSG00000000579	-0.3985773	0.66827
Mrto4 ENSMUSG00000028741	-0.0922125	0.6683679
Pygb ENSMUSG00000033059	0.0933628	0.6686093
Junb ENSMUSG00000052837	0.088455	0.6688105
Mks1 ENSMUSG00000034121	0.3080855	0.6688105
Zscan22 ENSMUSG00000054715	0.2070707	0.6688105
Ankrd13b ENSMUSG0000003790	-0.0987348	0.6688105
Ssbp3 ENSMUSG00000061887	-0.0965191	0.6688105
A630089N07Rik ENSMUSG00000	-0.4680601	0.6688105
Cad ENSMUSG00000013629	0.0935716	0.6688105
Vars ENSMUSG00000007029	0.0867323	0.6688105
Eif2b1 ENSMUSG00000029388	-0.0954376	0.6688105
Epb4114b ENSMUSG0000002843	-0.5231307	0.6688105
Tymp ENSMUSG00000022615	-0.2955809	0.6688105
Garem2 ENSMUSG00000044576	0.2196371	0.6688105
Adgrv1 ENSMUSG00000069170	0.8139362	0.6688105
Nat10 ENSMUSG00000027185	-0.0889767	0.6689157
Togaram1 ENSMUSG0000003561	-0.189247	0.6695624
Amhr2 ENSMUSG00000023047	0.7991528	0.6695624
Prkesh ENSMUSG00000003402	0.088311	0.6698129
Tbc1d2b ENSMUSG00000037410	0.1253218	0.669944
Trrap ENSMUSG00000045482	0.0948398	0.669944
Bzw2 ENSMUSG00000020547	-0.1004489	0.669944
Stbd1 ENSMUSG00000047963	-0.2182185	0.6711318
H2-Q6 ENSMUSG00000073409	0.1922402	0.671348
Plec ENSMUSG00000022565	0.0867714	0.671348
Ctsw ENSMUSG00000024910	-0.2235258	0.671348
Fam3c ENSMUSG00000029672	-0.1093835	0.671348
Ccdc86 ENSMUSG00000024732	0.0878505	0.6715063
Brd1 ENSMUSG00000029279	0.2836326	0.6715063
Cpt1c ENSMUSG00000007783	-0.1336267	0.6715063
Smagp ENSMUSG00000053559	-0.8003895	0.6720125
Zfp618 ENSMUSG00000028358	0.1525179	0.6722112
Ube2d2a ENSMUSG00000091896	-0.0938204	0.672461
Pkd1 ENSMUSG00000032855	0.1225174	0.672461
Zfp626 ENSMUSG00000030604	-0.2095451	0.6724833
Ccdc137 ENSMUSG00000049957	-0.0980495	0.6724833
Gpbp111 ENSMUSG00000034042	-0.1163011	0.6725813
Pdgfrb ENSMUSG00000024620	0.0918255	0.6725813
Nif311 ENSMUSG00000026036	-0.1273081	0.6727363
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Rxra ENSMUSG00000015846	0.0915779	0.673381

Slc25a47 ENSMUSG00000048856	0.2157417	0.6734038
Ccdc85b ENSMUSG00000095098	-0.0998634	0.6736679
Dnaja3 ENSMUSG00000004069	0.0906214	0.6738095
Dpysl5 ENSMUSG00000029168	-0.8828264	0.6738095
Tfe3 ENSMUSG00000000134	0.0911271	0.6740274
Rprd1b ENSMUSG00000027651	0.0954269	0.6740274
Figl2 ENSMUSG00000095440	-0.2693527	0.6740274
Fgfbp3 ENSMUSG00000047632	-0.2202373	0.6740274
Iars ENSMUSG00000037851	0.0952913	0.6740274
Sec24c ENSMUSG00000039367	0.0910825	0.6740274
Alkbh2 ENSMUSG00000044339	-0.2817199	0.6741188
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Pcsk7 ENSMUSG00000035382	0.1158834	0.6741188
Elov1 ENSMUSG00000006390	-0.0871381	0.6741188
Ctnnd1 ENSMUSG00000034101	-0.1365992	0.6741188
Tmem176b ENSMUSG000000298	0.0944078	0.6741188
Cln3 ENSMUSG00000030720	0.4479389	0.6741188
Prune2 ENSMUSG00000039126	-0.193172	0.6741188
Flot2 ENSMUSG00000061981	0.0907095	0.6741292
Dgke ENSMUSG00000000276	-0.1771704	0.6742452
Dnm2 ENSMUSG00000033335	0.0952054	0.6745766
Lca5 ENSMUSG00000045275	-0.6348653	0.674654
Nsmce4a ENSMUSG00000040331	-0.0953552	0.674654
Nudt4 ENSMUSG00000020029	-0.0942088	0.674654
Dhcr7 ENSMUSG00000058454	0.1217627	0.674654
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Mocs2 ENSMUSG00000015536	-0.1295021	0.674654
Fkbp9 ENSMUSG00000029781	0.0864372	0.674654
Srpk2 ENSMUSG00000062604	-0.1219233	0.6748963
Rpn2 ENSMUSG00000027642	0.0871903	0.6748963
Tlx2 ENSMUSG00000068327	-0.3027882	0.6748963
Ammecr1 ENSMUSG0000004222	-0.1516645	0.6748963
Tle3 ENSMUSG00000032280	0.0906556	0.6748963
Ano6 ENSMUSG00000064210	0.1030357	0.6752134
Ankrd12 ENSMUSG00000034647	0.2098032	0.6752134
Cct8 ENSMUSG00000025613	-0.0921863	0.6752134
Rbbp5 ENSMUSG00000026439	0.1256155	0.6752134
Abca2 ENSMUSG00000026944	0.1279044	0.6755896
Cul4b ENSMUSG00000031095	-0.1619205	0.6756557
Ddx55 ENSMUSG00000029389	0.1224335	0.6756557
Gm9913 ENSMUSG00000053615	-0.5470522	0.6756557
Antxr2 ENSMUSG00000029338	-0.1466885	0.6757719
Kti12 ENSMUSG00000073775	-0.117693	0.6761753
Gtdc1 ENSMUSG00000036890	0.2152838	0.676454
Fam58b ENSMUSG00000049489	-0.1357091	0.6769915
Alg12 ENSMUSG00000035845	0.1486657	0.6769915
Cst6 ENSMUSG00000024846	0.4462613	0.6769915
Ing2 ENSMUSG00000063049	0.1294355	0.6769915
Gnrh1 ENSMUSG00000015812	0.5471825	0.6769915
Rab40c ENSMUSG00000025730	0.1206396	0.6769915



Gsta4 ENSMUSG00000032348	-0.1909433	0.67726
Zcchc14 ENSMUSG00000061410	0.1001878	0.6776797
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Ogn ENSMUSG00000021390	-0.3213195	0.6777884
Itgb3bp ENSMUSG00000028549	-0.3703506	0.6777884
Bckdhb ENSMUSG00000032263	0.1650759	0.6777884
Pde8b ENSMUSG00000021684	-0.5003328	0.6783929
Med13l ENSMUSG00000018076	0.1198616	0.6783929
Cog6 ENSMUSG00000027742	0.1423018	0.678418
Ubr1 ENSMUSG00000027272	-0.1968221	0.678841
Eri1 ENSMUSG00000031527	-0.0888714	0.678841
Magi2 ENSMUSG00000040003	-0.3918223	0.6795108
Ttc8 ENSMUSG00000021013	-0.1776713	0.6797035
Nfe2l1 ENSMUSG00000038615	0.086661	0.6797035
Arsj ENSMUSG00000046561	-0.1536492	0.6800299
Lnpep ENSMUSG00000023845	-0.1588187	0.6801308
Col18a1 ENSMUSG00000001435	-0.1407803	0.6801512
MIph ENSMUSG00000026303	-0.8843684	0.6802606
Camkv ENSMUSG00000032936	-0.7205249	0.6802606
Fubp1 ENSMUSG00000028034	0.0939312	0.6802908
Zdhhc24 ENSMUSG00000006463	0.1744371	0.6802908
Msrb3 ENSMUSG00000051236	0.096706	0.6806564
Ufsp1 ENSMUSG00000051502	0.2064029	0.6809413
Ubl7 ENSMUSG00000055720	0.1042481	0.6809969
Ptpra ENSMUSG00000027303	0.0868399	0.6809969
Dnmt1 ENSMUSG00000004099	0.0879393	0.6809969
Cxxc4 ENSMUSG00000044365	0.4680478	0.6813925
Nol6 ENSMUSG00000028430	0.0960465	0.681465
Gdpd5 ENSMUSG00000035314	-0.1748392	0.681465
Zfp946 ENSMUSG00000071266	-0.4243425	0.6816482
Elov16 ENSMUSG00000041220	-0.1364138	0.6816482
Nt5dc2 ENSMUSG00000071547	0.0866607	0.6816482
Iffo1 ENSMUSG00000038271	-0.1389329	0.6817104
Kcnn1 ENSMUSG00000002908	-0.2769759	0.6817795
Tmem165 ENSMUSG0000002923	0.0854307	0.6821089
Arg2 ENSMUSG00000021125	0.7039688	0.6825964
Akt1 ENSMUSG00000001729	0.0836609	0.6825964
Slc35a2 ENSMUSG00000031156	0.112041	0.682821
C2cd3 ENSMUSG00000047248	0.158326	0.682821
Ccser1 ENSMUSG00000039578	0.6501651	0.682821
Ankrd1 ENSMUSG00000024803	-0.0983611	0.682821
Pitpnm1 ENSMUSG00000024851	0.0875176	0.682821
Ddx25 ENSMUSG00000032101	0.5311982	0.682821
Tarbp2 ENSMUSG00000023051	-0.0902567	0.6832408
Cox7a2 ENSMUSG00000032330	-0.1675382	0.6832408
Csnk1a1 ENSMUSG00000024576	0.0904641	0.6837684
Zfp809 ENSMUSG00000057982	-0.2880036	0.6837684
Mkl1 ENSMUSG00000042292	0.091846	0.6837684
Oxnad1 ENSMUSG00000021906	0.1434104	0.6837684
Trip4 ENSMUSG00000032386	-0.1522236	0.6837684
Ttc9c ENSMUSG00000071660	-0.0895221	0.6837684
Slc1a3 ENSMUSG00000005360	-0.1494818	0.6837684
Rbbp6 ENSMUSG00000030779	-0.1045134	0.6837684

Sept11 ENSMUSG00000058013	0.0910772	0.6837684
Prob1 ENSMUSG00000073600	0.4935725	0.6837684
Cs ENSMUSG00000005683	0.0908216	0.6837684
Adam22 ENSMUSG00000040537	-0.4280415	0.6838503
Xpo4 ENSMUSG00000021952	-0.129527	0.6838503
Gas211 ENSMUSG00000034201	0.0937906	0.6838503
Fam185a ENSMUSG00000047221	-0.1861913	0.6838503
Col5a2 ENSMUSG00000026042	0.0844731	0.6838503
Hist3h2a ENSMUSG00000078851	0.290872	0.6838503
Ganab ENSMUSG00000071650	0.085726	0.6838503
Hrh1 ENSMUSG00000053004	-0.6761899	0.6838503
Zfp942 ENSMUSG00000071267	0.2955029	0.6838503
Tdp2 ENSMUSG00000035958	-0.1246814	0.6841808
Aldh3b1 ENSMUSG00000024885	0.1740521	0.6842324
Fam120a ENSMUSG00000038014	0.0949696	0.6844174
Taf2 ENSMUSG00000037343	-0.1158263	0.6844174
Kcnh4 ENSMUSG00000035355	0.8202201	0.6844529
Setd1a ENSMUSG00000042308	0.1021028	0.6844529
Scap ENSMUSG00000032485	-0.0859067	0.6844997
Prr13 ENSMUSG00000023048	0.1021732	0.6844997
Tnnc1 ENSMUSG00000091898	-0.3463962	0.6846181
Amotl2 ENSMUSG00000032531	0.088341	0.6846923
Atad3a ENSMUSG00000029036	0.0894758	0.6847158
Psen1 ENSMUSG00000019969	0.0908755	0.6847532
Akt3 ENSMUSG00000019699	-0.1130042	0.6853115
Itgav ENSMUSG00000027087	-0.1056711	0.6854615
Ccdc9 ENSMUSG00000041375	-0.1062296	0.6855909
Mkln1 ENSMUSG00000025609	-0.1429444	0.68644
Adamts15 ENSMUSG00000043821	-0.1170027	0.6865173
Exosc4 ENSMUSG00000034259	-0.1032757	0.6865214
Cdk16 ENSMUSG00000031065	0.0861455	0.6871493
Pigx ENSMUSG00000023791	-0.1910925	0.6873094
Rtl8a ENSMUSG00000067925	0.264126	0.6873094
Baz1b ENSMUSG00000002748	-0.0902621	0.6881334
Gm20605 ENSMUSG0000002972	-0.4989059	0.6881334
Daam2 ENSMUSG00000040260	-0.4528199	0.6881334
Tor1aip2 ENSMUSG00000050565	0.0879024	0.6881334
Cox7a1 ENSMUSG00000074218	-0.560038	0.6881334
Rsl24d1 ENSMUSG00000032215	-0.0961714	0.6884278
Rbm38 ENSMUSG00000027510	0.119652	0.6884729
Dnah1 ENSMUSG00000019027	-0.9242639	0.6884729
Rnpep ENSMUSG00000041926	0.1251178	0.6884729
Ebf4 ENSMUSG00000053552	-0.6930162	0.6884729
Pfdn1 ENSMUSG00000024346	-0.1268278	0.6884729
Lin37 ENSMUSG00000036845	0.1461385	0.6884729
Pla2g7 ENSMUSG00000023913	-0.3839917	0.6884797
Hmcn2 ENSMUSG00000055632	0.2199561	0.6888276
Cgrrf1 ENSMUSG00000055128	-0.1784594	0.6888276
Spg11 ENSMUSG00000033396	0.1452847	0.6888276
March6 ENSMUSG00000039100	0.0984054	0.6888276
Hook3 ENSMUSG00000037234	-0.146246	0.6888276
Pef1 ENSMUSG00000028779	-0.1036389	0.6888276
Becn1 ENSMUSG00000035086	-0.1019339	0.6888276

Gm47283 ENSMUSG0000009676	-0.118752	0.6908556
Lbp ENSMUSG00000016024	0.2227107	0.6908556
Papss1 ENSMUSG00000028032	0.0907212	0.691184
Clint1 ENSMUSG00000006169	0.0890425	0.6912101
Cyp1b1 ENSMUSG00000024087	0.0926952	0.6912838
Pdpn ENSMUSG00000028583	-0.1051541	0.6917895
Tmem131 ENSMUSG0000002611	0.1068115	0.6922181
Ubl3 ENSMUSG00000001687	0.1142321	0.6922181
Ttl1 ENSMUSG00000022442	0.1865012	0.6922602
Tram2 ENSMUSG00000041779	0.1234816	0.6923318
Tbkbp1 ENSMUSG00000038517	0.2652045	0.6923318
Ppp4r2 ENSMUSG00000052144	-0.1024825	0.6923318
Prpf3 ENSMUSG00000015748	-0.091462	0.6923318
Atg16l1 ENSMUSG00000026289	0.0975477	0.6923318
Klhl28 ENSMUSG00000020948	-0.3443076	0.6923318
Zfp109 ENSMUSG00000074283	0.387006	0.6923318
H2-M5 ENSMUSG00000024459	-1.007426	0.6923318
Pip4p1 ENSMUSG00000035953	0.0988152	0.6924789
Osgep1 ENSMUSG00000026096	-0.3247735	0.6924789
Fam53b ENSMUSG00000030956	0.2247991	0.6925165
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Fabp4 ENSMUSG00000062515	-0.6571617	0.6925165
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Oxsr1 ENSMUSG00000036737	0.0881895	0.6945126
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Aida ENSMUSG00000042901	0.0818136	0.7160307
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Mdk ENSMUSG00000027239	-0.5893386	0.720631
Doc2b ENSMUSG00000020848	-0.7414005	0.7208165
Hnrnpf ENSMUSG00000042079	0.07917	0.7208913
Egln3 ENSMUSG00000035105	0.1120212	0.7208913
AW549877 ENSMUSG0000000415	-0.1688639	0.7211747
Prkab1 ENSMUSG00000029513	0.1029571	0.7211747
Spc24 ENSMUSG00000074476	-0.0955917	0.7211747
Bend3 ENSMUSG00000038214	0.0998575	0.7211747
Angpt4 ENSMUSG00000027460	-0.3534329	0.7211747
Eif5b ENSMUSG00000026083	-0.0880362	0.7211747
Lmln ENSMUSG00000022802	0.2180761	0.7211747
Camk1 ENSMUSG00000030272	-0.119496	0.7211747
Zfp398 ENSMUSG00000062519	-0.2222096	0.7211747
Tsc22d2 ENSMUSG00000027806	-0.0923684	0.721241
Atp6v1c1 ENSMUSG0000002229	-0.0957213	0.7212789
Thumpd1 ENSMUSG0000003094	-0.0859473	0.721333
Irx2 ENSMUSG00000001504	0.0925611	0.7214198
Eno2 ENSMUSG00000004267	-0.1455003	0.7214198
Plekhb1 ENSMUSG00000030701	-0.5700699	0.7214198
Cd33 ENSMUSG00000004609	0.6363398	0.7214198
Hist1h2bp ENSMUSG0000006930	0.8568842	0.7214198
Serping1 ENSMUSG00000023224	0.3592954	0.7214198
Tonsl ENSMUSG00000059323	0.0928528	0.7214198
Tnfrsf12a ENSMUSG0000002390	-0.0831241	0.7214198
Snrpe ENSMUSG00000090553	-0.1290547	0.7214198
Myo1b ENSMUSG00000018417	-0.1245834	0.7214198
Ctdspl ENSMUSG00000047409	-0.111424	0.7214198
Trim36 ENSMUSG00000033949	-0.6087106	0.7214198
Car12 ENSMUSG00000032373	0.1623616	0.7214198
Met ENSMUSG00000009376	-0.179326	0.7214198
Zfp260 ENSMUSG00000049421	-0.2150367	0.7214198
Prpsap1 ENSMUSG00000015869	0.0856681	0.7214198
Lingo1 ENSMUSG00000049556	-0.630297	0.7214198
Tmed3 ENSMUSG00000032353	0.1107195	0.7214198
Mgrn1 ENSMUSG00000022517	0.0805939	0.7214198
Zyg11b ENSMUSG00000034636	-0.1291726	0.7214198
Bag4 ENSMUSG00000037316	0.1177676	0.7214198
Dcaf12 ENSMUSG00000028436	0.0855915	0.7214198
Zfp511 ENSMUSG00000025470	-0.1647132	0.7214198
Rab34 ENSMUSG00000002059	-0.0846945	0.7219921
Tcf12 ENSMUSG00000032228	-0.0994231	0.7219921
Ttc7b ENSMUSG00000033530	0.1427628	0.7219921

Mfsd1 ENSMUSG00000027775	0.0828105	0.7219921
Ier2 ENSMUSG00000053560	-0.0939071	0.7219921
Cln7 ENSMUSG00000036636	0.0846214	0.7219921
Bhlhe41 ENSMUSG00000030256	0.1363251	0.7219921
Mpp3 ENSMUSG00000052373	-0.5140628	0.7219921
Fut8 ENSMUSG00000021065	-0.0982182	0.7223068
Bcat2 ENSMUSG00000030826	0.1091851	0.7223068
Dcaf5 ENSMUSG00000049106	0.1087114	0.7223068
Rheb1 ENSMUSG00000023755	-0.1200154	0.7224167
Gm9922 ENSMUSG00000053821	0.859869	0.7225412
Fem1c ENSMUSG00000033319	-0.1314211	0.7229321
Numb ENSMUSG00000021224	0.1251368	0.7233616
Thap12 ENSMUSG00000030753	0.0820102	0.7237143
Ikbkg ENSMUSG00000004221	-0.0955789	0.723758
Zfp623 ENSMUSG00000050846	0.1640909	0.7239153
Kars ENSMUSG00000031948	0.077902	0.7239153
Stip1 ENSMUSG00000024966	0.0812998	0.7250633
Sfn ENSMUSG00000047281	-0.1876571	0.7250633
Castor2 ENSMUSG00000015944	-0.1501051	0.7250633
Ints12 ENSMUSG00000028016	-0.1173063	0.7253817
Calcr1 ENSMUSG00000059588	-0.2605666	0.7253817
Snapin ENSMUSG00000001018	0.1033354	0.7253817
Cdk5rap1 ENSMUSG0000002748	0.1940726	0.7253817
Cenpe ENSMUSG00000045328	0.1289652	0.7253817
Srgap1 ENSMUSG00000020121	0.4094479	0.7253817
Smarce1 ENSMUSG00000037935	-0.0946026	0.7253817
Ahsa2 ENSMUSG00000020288	0.1914324	0.7253817
Nudt6 ENSMUSG00000050174	-0.4153378	0.7257582
Ska1 ENSMUSG00000036223	-0.1262312	0.7257582
Oser1 ENSMUSG00000035399	0.1041193	0.7262044
Bloc1s6 ENSMUSG00000005804	-0.1058884	0.7268763
Fmn12 ENSMUSG00000036053	0.1268208	0.7268763
Ints5 ENSMUSG00000071652	0.0801839	0.7273603
Esd ENSMUSG00000021996	-0.0921866	0.727525
Tmem170 ENSMUSG0000003195	0.1837741	0.727525
Mcm7 ENSMUSG00000029730	0.0813386	0.727525
4933428G20Rik ENSMUSG000000	0.6067553	0.727525
Ctsl ENSMUSG00000021477	-0.078657	0.727525
Fap ENSMUSG00000000392	-0.7328452	0.727525
Fam98c ENSMUSG00000030590	0.2982765	0.727525
Strip1 ENSMUSG00000014601	0.0808584	0.727525
Pym1 ENSMUSG00000064030	-0.1194902	0.727525
Nacc1 ENSMUSG00000001910	0.0787944	0.727525
Arf2 ENSMUSG00000062421	-0.1018076	0.7276803
Rpf1 ENSMUSG00000028187	-0.1074799	0.727981
Phf7 ENSMUSG00000021902	-0.1745445	0.727981
Rel12 ENSMUSG00000044024	-0.7021346	0.727981
Atg2b ENSMUSG00000041341	0.1253097	0.7285045
Lsm6 ENSMUSG00000031683	-0.0875872	0.7285179
Rhoc ENSMUSG00000002233	0.0857564	0.7285179
Lsm14a ENSMUSG00000066568	0.0834483	0.7285179
Ccnk ENSMUSG00000021258	0.0843435	0.7285179
Trim69 ENSMUSG00000033368	0.8554546	0.7285179

Zfp108 ENSMUSG00000030486	-0.4616663	0.7285179
Fchsd2 ENSMUSG00000030691	0.1653308	0.7285663
Cog4 ENSMUSG00000031753	0.0869232	0.7285663
Nat2 ENSMUSG00000051147	0.3139129	0.7285663
Kif5c ENSMUSG00000026764	0.1908866	0.7285824
Nsmaf ENSMUSG00000028245	0.1081541	0.7288328
Cdon ENSMUSG00000038119	-0.121982	0.7298468
Aldh112 ENSMUSG00000020256	0.1161188	0.7299707
Yrdc ENSMUSG00000028889	-0.0898906	0.7299998
Pex19 ENSMUSG00000003464	0.0883308	0.7300206
Nme5 ENSMUSG00000035984	-0.7542421	0.7300206
Cnn1 ENSMUSG00000001349	-0.2900385	0.7300247
BC004004 ENSMUSG0000000527	0.0852191	0.7302937
Sap30 ENSMUSG00000031609	0.0807948	0.7305892
Nab2 ENSMUSG00000025402	0.080477	0.7305892
Prdm11 ENSMUSG00000075028	0.1843635	0.7305892
Txnrd1 ENSMUSG00000020250	0.0808202	0.7305892
Vps39 ENSMUSG00000027291	-0.102385	0.7305892
Lpcat4 ENSMUSG00000027134	-0.1170148	0.7305892
Tecpr1 ENSMUSG00000066621	0.1216728	0.7305892
Zfp597 ENSMUSG00000039789	-0.2785646	0.7305892
Manbal ENSMUSG00000063019	0.1446087	0.7305892
Cep57l1 ENSMUSG00000019813	-0.1649018	0.7306136
Gm10638 ENSMUSG0000007417	-0.5658827	0.7306893
Tpp2 ENSMUSG00000041763	-0.1023575	0.7307354
Mkl2 ENSMUSG00000009569	0.1233718	0.7309597
Aagab ENSMUSG00000037257	-0.0983819	0.7309608
Hsf2bp ENSMUSG00000002076	-0.5355425	0.7309608
Pkm ENSMUSG00000032294	0.0780897	0.7309608
Chst14 ENSMUSG00000074916	-0.0978883	0.7309801
Echs1 ENSMUSG00000025465	0.0835533	0.7309801
Peak1 ENSMUSG00000074305	0.1292148	0.7309801
Glud1 ENSMUSG00000021794	0.078508	0.7311587
Zfp518a ENSMUSG00000049164	-0.2925583	0.7311828
Mfap1b ENSMUSG00000048222	-0.1829438	0.7311828
Cactin ENSMUSG00000034889	0.0803667	0.7312954
Tigit ENSMUSG00000071552	-0.6944984	0.7312954
Atg16l2 ENSMUSG00000047767	-0.2406685	0.7312954
Rassf4 ENSMUSG00000042129	0.3760745	0.7317037
Aktip ENSMUSG00000031667	-0.1631706	0.7317037
Nsa2 ENSMUSG00000060739	-0.0908725	0.7317037
Ripk3 ENSMUSG00000022221	0.0825821	0.7317673
Rpp25 ENSMUSG00000062309	0.4584421	0.7318844
Bcor1 ENSMUSG00000036959	0.1009743	0.7323741
Dynlt1b ENSMUSG00000096255	-0.1745542	0.7323741
Etv4 ENSMUSG00000017724	-0.10584	0.7323741
Pccb ENSMUSG00000032527	0.1189168	0.7323741
Sytl5 ENSMUSG00000054453	0.6925122	0.7323741
Plcb1 ENSMUSG00000051177	-0.5157541	0.7333503
Carf ENSMUSG00000026017	0.3264241	0.7334613
Tnks1bp1 ENSMUSG0000003395	0.0784089	0.7338485
Glt8d2 ENSMUSG00000020251	0.3276068	0.7342565
Ubtd2 ENSMUSG00000044949	0.1215797	0.7343037

Dnajib12 ENSMUSG00000020109	0.0999755	0.7343082
Camk1d ENSMUSG00000039145	-0.1449789	0.7343082
Gamt ENSMUSG00000020150	0.1171389	0.7348043
Crabp2 ENSMUSG00000004885	-0.3044907	0.7351743
Tmem202 ENSMUSG0000004952	0.8027119	0.7360496
Selenoo ENSMUSG00000035757	0.1473521	0.7361182
Nploc4 ENSMUSG00000039703	0.0859	0.7361182
Etfb ENSMUSG00000004610	-0.3342378	0.7363067
Mfsd13a ENSMUSG00000025227	0.1995713	0.7363067
Stxbp3 ENSMUSG00000027882	-0.1196742	0.7363067
Xpc ENSMUSG00000030094	0.1680449	0.7363067
Hr ENSMUSG00000022096	-0.3442468	0.7364097
Tbccd1 ENSMUSG00000004462	-0.1266175	0.7364097
Sirt4 ENSMUSG00000029524	-0.1394686	0.7364097
Cplx2 ENSMUSG00000025867	0.1217964	0.7364097
Gadd45a ENSMUSG00000036390	-0.2249202	0.7364097
Hypk ENSMUSG00000027245	-0.2693691	0.7364587
Zcchc17 ENSMUSG00000028772	-0.0982493	0.7364587
Shmt2 ENSMUSG00000025403	0.0754815	0.7364986
Gga2 ENSMUSG00000030872	0.0819115	0.7369763
Prkd1 ENSMUSG00000002688	0.1812612	0.7370134
Eid2 ENSMUSG00000046058	-0.1492491	0.7370134
Rnf144a ENSMUSG00000020642	0.0985097	0.7370189
Ap5s1 ENSMUSG00000068264	-0.1363069	0.7372397
Tsfm ENSMUSG00000040521	-0.0966557	0.7376332
Hook2 ENSMUSG00000052566	0.1384155	0.7378114
Hes6 ENSMUSG00000067071	-0.1437905	0.7379616
Jpt2 ENSMUSG00000024165	0.0772029	0.7383324
Snap29 ENSMUSG00000022765	0.1187086	0.7385967
Col6a3 ENSMUSG00000048126	0.0806481	0.7385967
Abhd13 ENSMUSG00000040396	-0.1074493	0.7385967
Gpam ENSMUSG00000024978	0.1629041	0.7385967
Frg2f1 ENSMUSG00000087385	0.3238123	0.7385967
Mcm6 ENSMUSG00000026355	0.0765209	0.7385967
Poldip3 ENSMUSG00000041815	0.0782652	0.7385967
Thap3 ENSMUSG00000039759	-0.1195705	0.7386152
Kat14 ENSMUSG00000027425	-0.0872547	0.7386152
Dcp2 ENSMUSG00000024472	-0.0889723	0.7386152
Fut11 ENSMUSG00000039357	-0.1128679	0.7386152
Cfap74 ENSMUSG00000078490	-0.3580006	0.7386903
Iqcd ENSMUSG00000029601	-0.6281894	0.7387008
Tmem184c ENSMUSG000000316	-0.165914	0.7390844
Mboat2 ENSMUSG00000020646	-0.1473597	0.7394927
Fn1 ENSMUSG00000026193	0.0856783	0.7394927
Hspe1 ENSMUSG00000073676	-0.1098334	0.7404808
Comtd1 ENSMUSG00000021773	-0.3284697	0.7404808
Hist1h1e ENSMUSG00000051627	-0.4760111	0.7404808
Lrrc8a ENSMUSG00000007476	-0.2068813	0.7404808
Srsf2 ENSMUSG00000034120	0.0901229	0.7404808
Pim3 ENSMUSG00000035828	0.0838979	0.7404808
Ppox ENSMUSG00000062729	-0.1138829	0.7404808
Pawr ENSMUSG00000035873	-0.1424441	0.7404808
Eaf2 ENSMUSG00000022838	-0.6711024	0.7404808

Wrap53 ENSMUSG00000041346	0.11388	0.7408087
Mis18bp1 ENSMUSG0000004753	-0.2158912	0.740829
Mc1l ENSMUSG00000038612	0.0801794	0.7409883
Csgalnact2 ENSMUSG000000420	-0.1898299	0.7409883
Cks1b ENSMUSG00000028044	-0.0844718	0.7409883
Nhp2 ENSMUSG00000001056	-0.0863492	0.7409883
Lurap1l ENSMUSG00000048706	-0.1383681	0.7409883
Rcl1 ENSMUSG00000024785	0.0845257	0.7409883
Tra2b ENSMUSG00000022858	-0.0819005	0.7409883
Scpep1 ENSMUSG00000000278	0.0786342	0.7409883
Simc1 ENSMUSG00000043183	-0.1467432	0.7409883
Zfp418 ENSMUSG00000034538	0.5792369	0.7409883
Vta1 ENSMUSG00000019868	-0.1148311	0.74122
Got1 ENSMUSG00000025190	0.0789617	0.74122
Apba1 ENSMUSG00000024897	-0.2086949	0.7414644
Amz2 ENSMUSG00000020610	0.1074036	0.7416374
Rnf169 ENSMUSG00000058761	-0.1429053	0.7417045
Atl2 ENSMUSG00000059811	-0.0888538	0.7417516
Mfsd4b4 ENSMUSG00000096687	0.1602285	0.7417516
Acrbp ENSMUSG00000072770	-0.2967226	0.7419089
Cep170b ENSMUSG00000072825	0.0793625	0.7421768
Col1a2 ENSMUSG00000029661	0.0737846	0.7426236
Eno4 ENSMUSG00000048029	0.5536456	0.7426236
Faf2 ENSMUSG00000025873	0.0797497	0.7426236
Zdhhc7 ENSMUSG00000031823	-0.0805972	0.7426236
Limk1 ENSMUSG00000029674	0.125208	0.7426236
Tbl2 ENSMUSG00000005374	0.0825721	0.7426236
Mmp16 ENSMUSG00000028226	0.2820369	0.7426236
Serf2 ENSMUSG00000074884	-0.0968394	0.7426236
Tatdn1 ENSMUSG00000050891	-0.208461	0.7426236
Mphosph9 ENSMUSG0000003812	-0.1738249	0.7426236
Fam186b ENSMUSG00000078907	0.9330896	0.7426236
Nmrk1 ENSMUSG00000037847	0.245583	0.7426236
Bbc3 ENSMUSG00000002083	0.1641686	0.7426743
Zfp955b ENSMUSG00000096910	-0.4055763	0.7430423
Gbp6 ENSMUSG00000104713	0.2704055	0.7430423
Tph2 ENSMUSG00000006764	0.7819653	0.7430423
Nf2 ENSMUSG00000009073	0.0830531	0.7430423
Spata1 ENSMUSG00000028188	-0.6434802	0.7430423
Haus4 ENSMUSG00000022177	0.0903494	0.7430423
Pigc ENSMUSG00000026698	-0.1446602	0.7430423
Smoc2 ENSMUSG00000023886	0.2359632	0.7430423
Col20a1 ENSMUSG00000016356	-1.0171986	0.7430423
Plaur ENSMUSG00000046223	-0.0878628	0.7430423
Paqr8 ENSMUSG00000025931	-0.3142127	0.7430423
Sos1 ENSMUSG00000024241	-0.1200876	0.7430423
Adcy1 ENSMUSG00000020431	0.5681604	0.7430423
Mcts2 ENSMUSG00000042814	-0.1669843	0.7430423
Pvr ENSMUSG00000040511	0.0905574	0.7430423
Rab7 ENSMUSG00000079477	0.0772601	0.7430423
Brk1 ENSMUSG00000033940	-0.0765023	0.7434061
Cnbp ENSMUSG00000030057	-0.0765448	0.7437967
Hcfc2 ENSMUSG00000020246	-0.1310799	0.7437967

Tnxb ENSMUSG00000033327	-0.3136961	0.7437967
Rps6ka2 ENSMUSG00000023809	0.0956536	0.7437967
Ccdc9b ENSMUSG00000045838	-0.1090556	0.7437967
Smpd13a ENSMUSG00000019872	-0.3387032	0.7437967
Ehd3 ENSMUSG00000024065	-0.2884724	0.7437967
Asb3 ENSMUSG00000020305	-0.1772479	0.7437967
Has2 ENSMUSG00000022367	-0.0924846	0.7440989
Pstpip1 ENSMUSG00000032322	0.2043806	0.7441663
Depdc1a ENSMUSG00000028175	-0.1811686	0.7441663
Miga2 ENSMUSG00000026858	0.0805572	0.7441663
Pfdn5 ENSMUSG00000001289	-0.1139738	0.7441663
Gpm6b ENSMUSG00000031342	0.455767	0.7441663
Mospd3 ENSMUSG00000037221	0.1093936	0.7441663
Armt1 ENSMUSG00000061759	-0.1144699	0.7441663
Hist1h3d ENSMUSG00000099583	-0.6401712	0.7441663
Cdkn1b ENSMUSG00000003031	0.0779393	0.7441663
Esam ENSMUSG00000001946	0.6917493	0.7441878
Erc1 ENSMUSG00000003549	-0.0994059	0.7441878
Exosc7 ENSMUSG00000025785	-0.1119361	0.7441878
Ints3 ENSMUSG00000027933	0.0803403	0.7441878
Zfp799 ENSMUSG00000095253	-0.246108	0.7441878
Jkamp ENSMUSG00000005078	-0.1232725	0.7444942
Tmem131l ENSMUSG0000003370	0.0984623	0.7444942
Inpp5k ENSMUSG00000006127	0.1884082	0.7444942
Ptk2 ENSMUSG00000022607	-0.0884017	0.7444942
Sp1 ENSMUSG00000001280	-0.0949887	0.7444942
Vps26b ENSMUSG00000031988	0.079199	0.7444942
Insl3 ENSMUSG00000079019	-0.3932336	0.7444942
Angpt1 ENSMUSG00000022309	0.3255898	0.7444942
Sssca1 ENSMUSG00000079478	-0.0855615	0.7444942
Actr8 ENSMUSG00000015971	0.0956809	0.7450974
Tnfaip1 ENSMUSG00000017615	0.0786477	0.7461057
Sbf1 ENSMUSG00000036529	0.0764288	0.7461982
Uhrf1 ENSMUSG00000001228	0.0780798	0.7461982
Zmym2 ENSMUSG00000021945	-0.1623332	0.7461982
Gldc ENSMUSG00000024827	0.398628	0.7462521
Bcl7c ENSMUSG00000030814	-0.091143	0.7465348
Gm16286 ENSMUSG0000002457	0.0777069	0.7465348
Ube2l3 ENSMUSG00000038965	0.086379	0.7465348
Samd8 ENSMUSG00000021770	-0.148084	0.7465348
Dlg3 ENSMUSG00000000881	-0.1105328	0.7465348
Znhit3 ENSMUSG00000020526	-0.1407972	0.7465348
Paip2 ENSMUSG00000037058	-0.0790298	0.7465348
Csk ENSMUSG00000032312	-0.0785632	0.7465348
Plxna1 ENSMUSG00000030084	0.087017	0.7465348
Abi3bp ENSMUSG00000035258	0.1641517	0.7465506
Cwc15 ENSMUSG00000004096	-0.0811073	0.7468534
Pcmtd2 ENSMUSG00000027589	-0.149051	0.7469334
Dalrd3 ENSMUSG00000019039	0.1220642	0.7469334
Lrrc8d ENSMUSG00000046079	0.2193591	0.7469334
Erf ENSMUSG00000040857	-0.0787315	0.7477437
Rnps1 ENSMUSG00000034681	0.0796105	0.7477864
Tmem101 ENSMUSG0000002092	-0.1146335	0.7477864

Ssfa2 ENSMUSG00000027007	0.1121194	0.7477864
B3galnt1 ENSMUSG0000004330C	0.101129	0.7477864
Tuba1a ENSMUSG00000072235	-0.0860183	0.7477864
Isca1 ENSMUSG00000044792	-0.1020186	0.7483484
Cyp27b1 ENSMUSG00000006724	0.7832292	0.7483484
Atp5b ENSMUSG00000025393	0.074168	0.7487524
Pkn2 ENSMUSG00000004591	-0.0840691	0.7487524
Smurf1 ENSMUSG00000038780	0.0786696	0.7487726
Setd1b ENSMUSG00000038384	0.0787972	0.7488255
Zfp931 ENSMUSG00000078861	-0.5452823	0.7488255
P4htm ENSMUSG00000006675	-0.4208631	0.7488255
Gchfr ENSMUSG00000046814	-0.1815144	0.7491172
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Acs14 ENSMUSG00000031278	-0.1207012	0.7494907
Fmn13 ENSMUSG00000023008	0.0769444	0.7496317
Atf5 ENSMUSG00000038539	0.077403	0.7496506
Oacyl ENSMUSG00000046610	0.4728887	0.7496506
Fam173a ENSMUSG00000057411	-0.1168526	0.7496506
Tmem69 ENSMUSG00000055900	-0.1366089	0.7497874
Btbd6 ENSMUSG00000002803	0.116701	0.7497934
Agpat1 ENSMUSG00000034254	-0.0763174	0.7503819
Sap18 ENSMUSG00000021963	0.077116	0.7505274
Meis3 ENSMUSG00000041420	0.2147732	0.7507862
Gpatch4 ENSMUSG00000028069	-0.0903657	0.7510188
Adnp ENSMUSG00000051149	0.3531192	0.7511544
Smox ENSMUSG00000027333	-0.1653712	0.7511544
Pnlcd1 ENSMUSG00000073460	0.5432936	0.7512833
Kifc5b ENSMUSG00000024301	-0.0979552	0.7512833
St6galnac4 ENSMUSG000000794	0.0780566	0.751438
Xaf1 ENSMUSG00000040483	0.0837525	0.751469
Ybx2 ENSMUSG00000018554	-0.3480669	0.7515916
N6amt1 ENSMUSG00000044442	0.1103742	0.7516225
Rbm15b ENSMUSG00000074102	0.0792047	0.7516225
Abat ENSMUSG00000057880	0.2370646	0.7516225
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Snu13 ENSMUSG00000063480	-0.077125	0.7516225
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Lztr1 ENSMUSG00000022761	0.0805391	0.7521214
Mmp3 ENSMUSG00000043613	0.630246	0.7521214
Ilk ENSMUSG00000030890	0.2183196	0.7521214
Gm14418 ENSMUSG0000007886	0.786999	0.7521214
Uck11 ENSMUSG00000089917	-0.1414127	0.7521214
Rbm5 ENSMUSG00000032580	0.0832778	0.7521214
Fpgs ENSMUSG00000009566	-0.0769315	0.7521578
Gtf2e2 ENSMUSG00000031585	0.0857744	0.7525084
Acot7 ENSMUSG00000028937	0.0803796	0.7529194
Bear3 ENSMUSG00000028121	0.2397766	0.7531157
Tnp3 ENSMUSG00000012535	0.075082	0.7531157
Mettl2 ENSMUSG00000020691	-0.1064571	0.7531157
Mrps9 ENSMUSG00000060679	0.1155761	0.7531486
Tysnd1 ENSMUSG00000020087	-0.1021413	0.7531486

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Slc29a1 ENSMUSG00000023942	0.0816755	0.7531486
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Morc3 ENSMUSG00000039456	-0.1127143	0.7543152
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Blcap ENSMUSG00000067787	0.1006136	0.7543152
Gemin2 ENSMUSG00000060121	-0.1135146	0.7543152
Tmem88 ENSMUSG00000045377	-0.2837254	0.7543152
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Nfu1 ENSMUSG00000029993	-0.1165172	0.7544471
Pkn3 ENSMUSG00000026785	-0.1147595	0.7544471
Gsto1 ENSMUSG00000025068	0.0752792	0.7544471
Ndufs8 ENSMUSG00000059734	-0.0852348	0.7544471
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Mmp2 ENSMUSG00000031740	0.0754407	0.7544471
Serf1 ENSMUSG00000021643	-0.1827904	0.7544471
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Clasp2 ENSMUSG00000033392	-0.1490324	0.7544471
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Tesk1 ENSMUSG00000028458	0.1303794	0.7552349
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Coq5 ENSMUSG00000041733	0.1184023	0.755535
Ctnnal1 ENSMUSG00000038816	0.1096081	0.755535
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Kdelc1 ENSMUSG00000026047	-0.0985348	0.7557877
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Thoc2 ENSMUSG00000037475	-0.174355	0.7558928
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Synj2bp ENSMUSG00000090935	-0.1173807	0.7558928
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Spast ENSMUSG00000024068	-0.0981125	0.7558928
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Atp2a3 ENSMUSG00000020788	-0.488667	0.7563325
Ppp1r26 ENSMUSG00000035829	0.1327831	0.7563325
Sidt2 ENSMUSG00000034908	0.0799924	0.7563325
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Rnasek ENSMUSG000000093989	0.7226597	0.7564747
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Ankrd13d ENSMUSG00000000598	-0.2143676	0.7568482
Lpcat2 ENSMUSG000000033192	-0.4766296	0.7570241
Carmil3 ENSMUSG000000022211	-0.4439388	0.757101
Ube2e3 ENSMUSG000000027011	0.0847431	0.757101
Casp12 ENSMUSG000000025887	-0.2115053	0.7575599
Psmg3 ENSMUSG000000029551	0.1185868	0.7575599
Azi2 ENSMUSG000000039285	0.0983008	0.7575599
Rabac1 ENSMUSG000000003380	-0.0870361	0.757895
Cdc42 ENSMUSG000000006699	-0.0748578	0.757895
Sec14l1 ENSMUSG000000020823	0.0792946	0.757895
Slc25a16 ENSMUSG000000071253	-0.1500527	0.757895
Card6 ENSMUSG000000041849	-0.4219477	0.757895
Dmt1 ENSMUSG000000022099	0.4879558	0.757895
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Ndst3 ENSMUSG000000027977	-0.3229883	0.757895
Clec11a ENSMUSG000000004473	-0.5044745	0.757895
Arhgef28 ENSMUSG000000021667	-0.1539289	0.757895
Nop10 ENSMUSG000000027133	-0.1165305	0.757895
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Sema4c ENSMUSG000000026121	-0.0880801	0.757895
Cap1 ENSMUSG000000028656	0.0729742	0.757895
Pcolce2 ENSMUSG000000015354	0.0908175	0.757895
Bpnt1 ENSMUSG000000026617	-0.0985048	0.757895
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Sgcb ENSMUSG000000029156	0.1097918	0.7589378
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Rffl ENSMUSG00000020696	0.1439987	0.7607843
Zfp72 ENSMUSG00000069184	-0.5301807	0.7607843
Gli2 ENSMUSG00000048402	0.1385217	0.7609172
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Lbx2 ENSMUSG00000034968	-0.8475114	0.7629097
Grem2 ENSMUSG00000050069	-0.0833685	0.7629097
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Acot9 ENSMUSG00000025287	-0.0797012	0.7635729
Man1a ENSMUSG00000003746	0.1462929	0.7635729
Plxdc1 ENSMUSG00000017417	-0.6043482	0.7636479
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Kmt5c ENSMUSG00000059851	-0.0910941	0.7645571
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Ube2v1 ENSMUSG00000078923	0.3734976	0.7645571
Plvap ENSMUSG00000034845	-0.3153193	0.7647183
Kcnk10 ENSMUSG00000033854	-0.159673	0.7647183
Cep70 ENSMUSG00000056267	-0.4079364	0.765023
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Zik1 ENSMUSG00000030393	-0.2340509	0.7655504
Snx12 ENSMUSG00000046032	0.0782611	0.7656368
Gpr137b ENSMUSG00000021306	-0.1238639	0.7656368
Scrn1 ENSMUSG00000019124	-0.4670684	0.7656368
Ubl4a ENSMUSG00000015290	0.0766931	0.76631
Ppp1r18 ENSMUSG00000034595	0.0758035	0.7663566
Taf3 ENSMUSG00000025782	-0.1183465	0.7663566
Nynrin ENSMUSG00000075592	0.1851929	0.7664366
Osbp16 ENSMUSG00000042359	-0.5171839	0.7664914
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Clpx ENSMUSG00000015357	-0.0928073	0.7670823
Rab39b ENSMUSG00000031202	-0.2230689	0.7671127
Oaf ENSMUSG00000032014	-0.0753158	0.7671127
Coq2 ENSMUSG00000029319	0.0943031	0.7674886
Arhgap44 ENSMUSG0000003338	0.1768533	0.7674886
Tdp1 ENSMUSG00000021177	0.1049949	0.7677368
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Tspan5 ENSMUSG00000028152	0.0713454	0.7677368
Dph6 ENSMUSG00000057147	-0.1661656	0.7677368
Nell2 ENSMUSG00000022454	-0.9007857	0.7677368
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Cnm4 ENSMUSG00000037408	0.1304574	0.7677368
Zfp235 ENSMUSG00000047603	0.1805109	0.7677368
Srsf5 ENSMUSG00000021134	-0.0809496	0.7677368
Tnfrsf13c ENSMUSG0000006810	0.5771228	0.767875
Epm2a ENSMUSG00000055493	0.4972356	0.767875
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Ftsj1 ENSMUSG00000031171	0.1099464	0.767875
Hira ENSMUSG00000022702	0.097265	0.767875
Glis3 ENSMUSG00000052942	0.1363878	0.767875
Gm11808 ENSMUSG0000006824	0.1193346	0.767875
Prepl ENSMUSG00000024127	-0.1403681	0.767875
Sec16b ENSMUSG00000026589	-0.2048169	0.767875
Josd2 ENSMUSG00000038695	-0.1008385	0.767875
Stard13 ENSMUSG00000016128	0.1245402	0.7679028
Thbs4 ENSMUSG00000021702	0.4966346	0.7679028
Ccher1 ENSMUSG00000040312	-0.0791542	0.7680085
Eif3k ENSMUSG00000053565	0.0782574	0.7680085
Mast2 ENSMUSG00000003810	0.0813561	0.7680549
Serpib9b ENSMUSG0000002140	0.4628706	0.7686335
Borcs5 ENSMUSG00000042992	-0.1706881	0.7686335
Pikfyve ENSMUSG00000025949	-0.1600143	0.7686335

Ctns ENSMUSG00000005949	0.1365954	0.7686335
Usp10 ENSMUSG00000031826	0.0750478	0.7686335
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Nudc ENSMUSG00000028851	-0.082565	0.7686335
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Irak4 ENSMUSG00000059883	0.1560247	0.7686335
Spata2 ENSMUSG00000033594	-0.2074077	0.7686335
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Snrnp25 ENSMUSG00000040767	-0.0987096	0.7686335
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Ptpn2 ENSMUSG00000024539	-0.1012709	0.7686335
Adsl ENSMUSG00000022407	0.0695475	0.7686335
Pop4 ENSMUSG00000030423	-0.1197045	0.7686335
Glrx3 ENSMUSG00000031068	-0.0764986	0.7686335
Chst12 ENSMUSG00000036599	0.0870316	0.7686335
Tmem138 ENSMUSG0000002466	0.1214398	0.7690082
Gpd1 ENSMUSG00000050627	0.1113247	0.7691588
Hpx ENSMUSG00000030895	0.4708088	0.7692386
Mxra7 ENSMUSG00000020814	-0.0872531	0.7692386
Slc39a9 ENSMUSG00000048833	0.0947669	0.7692386
Fbxo22 ENSMUSG00000032309	0.0969745	0.7692386
Rps12 ENSMUSG00000061983	-0.0995867	0.7692386
Myh9 ENSMUSG00000022443	0.0689463	0.7692386
Timm9 ENSMUSG00000021079	-0.0930911	0.7692386
Zfp984 ENSMUSG00000078495	-0.4090466	0.7692386
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Dync2li1 ENSMUSG00000024253	0.1327344	0.7692386
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Zfp113 ENSMUSG00000037007	-0.1439727	0.7692386
Trmt10b ENSMUSG00000035601	-0.2207824	0.7692386
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Pigg ENSMUSG00000029263	0.1352738	0.7698987
Hoga1 ENSMUSG00000025176	-0.4448856	0.7701519
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Mafa ENSMUSG00000047591	-0.49631	0.7701519
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Abcg2 ENSMUSG00000029802	-0.1247908	0.7701519
Bphl ENSMUSG00000038286	0.1791907	0.7701519
Nudt1 ENSMUSG00000036639	-0.1434736	0.7701519
Usp43 ENSMUSG00000020905	-0.3681482	0.7701519
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Angel1 ENSMUSG00000021257	0.1835152	0.7701519
Fyco1 ENSMUSG00000025241	0.1234111	0.7701519
Zfp386 ENSMUSG00000042063	-0.2002247	0.7701819
Tmem41a ENSMUSG0000002285	-0.1266218	0.7701819
Fbxl14 ENSMUSG00000030019	0.0935194	0.7701819

Rps27l ENSMUSG00000036781	-0.1384783	0.7706138
Gemin5 ENSMUSG00000037275	0.0749813	0.7706138
Figl1 ENSMUSG00000035455	-0.0999709	0.7706138
1700003E16Rik ENSMUSG000000	0.303	0.7714335
Trim44 ENSMUSG00000027189	-0.078061	0.7714648
Mpdu1 ENSMUSG00000018761	0.0867292	0.7715278
Polq ENSMUSG00000034206	-0.1615296	0.7715278
Rras2 ENSMUSG00000055723	-0.0855921	0.7715278
Pi4kb ENSMUSG00000038861	0.0790359	0.7715278
Tab2 ENSMUSG00000015755	-0.0855678	0.7715278
Mon2 ENSMUSG00000034602	0.0831137	0.7715278
St3gal6 ENSMUSG00000022747	-0.4258603	0.7715278
Cwc25 ENSMUSG00000018541	0.0934807	0.7715278
Mtmr7 ENSMUSG00000039431	0.3370417	0.7715278
Garem1 ENSMUSG00000042680	-0.2007091	0.7715278
McpH1 ENSMUSG00000039842	0.0945396	0.7715278
Glrx5 ENSMUSG00000021102	-0.0725118	0.7715278
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BC052040 ENSMUSG0000004028	0.1466214	0.7715278
Gtf2a1 ENSMUSG00000020962	-0.1173074	0.7715278
Pcp4l1 ENSMUSG00000038370	0.5025418	0.7715409
Cap2 ENSMUSG00000021373	-0.4322747	0.7715409
Ube3a ENSMUSG00000025326	-0.1396019	0.7715409
Pik3c2b ENSMUSG00000026447	0.1837372	0.7715409
Lsm11 ENSMUSG00000044847	0.1183993	0.7715409
Nop56 ENSMUSG00000027405	-0.0742249	0.7715409
Klh126 ENSMUSG00000055707	-0.0819718	0.7715409
Ccl22 ENSMUSG00000031779	0.8363541	0.7715409
Tmem263 ENSMUSG0000006093	0.0869298	0.771548
Ccdc12 ENSMUSG00000019659	-0.1093932	0.771548
Abhd5 ENSMUSG00000032540	-0.1058097	0.7717847
Rrbp1 ENSMUSG00000027422	0.077294	0.7717847
Krt16 ENSMUSG00000053797	-0.8343853	0.7717847
Tbc1d8b ENSMUSG00000042473	0.2302084	0.7717847
Rcn2 ENSMUSG00000032320	-0.0841404	0.7719896
Arid3b ENSMUSG00000004661	0.367082	0.7720178
Pheta1 ENSMUSG00000044134	-0.1012929	0.7720178
Tspan2 ENSMUSG00000027858	-0.539887	0.7721213
Ctnnb1 ENSMUSG00000027649	0.0972434	0.7721213
Ecel1 ENSMUSG00000026247	0.8398339	0.7721213
Jag1 ENSMUSG00000027276	-0.260207	0.772303
Gm6665 ENSMUSG00000091561	0.3724099	0.772303
Rps20 ENSMUSG00000028234	-0.122775	0.772303
Uimc1 ENSMUSG00000025878	-0.1116519	0.7724508
Fam161a ENSMUSG00000049811	-0.3876459	0.7726188
Gins2 ENSMUSG00000031821	0.0719623	0.7726488
Gspt2 ENSMUSG00000071723	-0.4696076	0.7732656
Alpk2 ENSMUSG00000032845	0.6794726	0.7732656
Rfk ENSMUSG00000024712	-0.0944994	0.7732656
Rab36 ENSMUSG00000020175	-0.2505733	0.7732656
Akap2 ENSMUSG00000038729	0.7892056	0.7732656
McmBp ENSMUSG00000048170	0.0712318	0.7732656
Ikbke ENSMUSG00000042349	0.1448309	0.7732656

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Napa ENSMUSG00000006024	0.0716658	0.773742
Shroom4 ENSMUSG00000006827C	-0.1707475	0.7738661
B4galt7 ENSMUSG00000021504	0.1077086	0.7738661
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Anks3 ENSMUSG00000022515	0.082751	0.7738661
Gmcl1 ENSMUSG00000001157	-0.1281714	0.7738661
Slc35b1 ENSMUSG00000020873	0.0955738	0.7738661
Lypd6 ENSMUSG00000050447	0.1534013	0.7738661
Aldh3a1 ENSMUSG00000019102	0.8442307	0.7738661
Gramd1a ENSMUSG00000001248	0.0823226	0.7738661
Hprt ENSMUSG00000025630	-0.072719	0.7738661
Dact2 ENSMUSG00000048826	0.3005487	0.7738661
Ehd2 ENSMUSG00000074364	0.0699013	0.7738661
Wdr45 ENSMUSG00000039382	-0.1348767	0.7738661
Mid1 ENSMUSG00000035299	0.1297143	0.7738661
Atox1 ENSMUSG00000018585	-0.1032076	0.7738661
Usp48 ENSMUSG00000043411	-0.0918692	0.7743043
Tmem59 ENSMUSG00000028618	0.0712938	0.7743043
Mycbp ENSMUSG00000028647	0.1382978	0.7743043
Myl6 ENSMUSG00000090841	-0.0876593	0.7743043
Herc3 ENSMUSG00000029804	-0.1801754	0.7743043
Insr ENSMUSG00000005534	-0.1260967	0.7743043
Ppp1r14b ENSMUSG0000005661:	-0.0830004	0.7743043
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Ryr1 ENSMUSG00000030592	0.4496851	0.774387
Rpl30 ENSMUSG00000058600	-0.1210475	0.7744225
Cox6a2 ENSMUSG00000030785	-0.7245316	0.7745609
Cdc37 ENSMUSG00000019471	0.0740783	0.7745609
Exosc8 ENSMUSG00000027752	-0.0734256	0.7745609
Laptm4a ENSMUSG00000020585	0.0691996	0.7745609
Wdr62 ENSMUSG00000037020	0.1128438	0.7745609
Tbc1d5 ENSMUSG00000023923	0.1402401	0.7745609
Cavin3 ENSMUSG00000037060	-0.0920047	0.7745609
Upp2 ENSMUSG00000026839	-0.3891661	0.7748701
Gnal ENSMUSG00000024524	0.3492082	0.7748701
Dnajc15 ENSMUSG00000022013	0.1522561	0.7750073
Rpap3 ENSMUSG00000022466	-0.0996499	0.7750997
Bahd1 ENSMUSG00000040007	-0.0937595	0.7750997
Zdhhc8 ENSMUSG00000060166	0.0765261	0.7750997
Tns2 ENSMUSG00000037003	0.0697794	0.7754002
H2-DMb1 ENSMUSG0000007954	-0.2647068	0.7756577
Pot1a ENSMUSG00000029676	-0.1553808	0.7760203
Cks2 ENSMUSG00000062248	-0.0876016	0.7760203
Pdcd11 ENSMUSG00000025047	0.0696877	0.7760203
Fermt3 ENSMUSG00000024965	-0.263465	0.7760203
Csf2ra ENSMUSG00000059326	-0.184909	0.7760203
Tma7 ENSMUSG00000091537	-0.0936796	0.7760203
Tacc3 ENSMUSG00000037313	-0.0754321	0.7760203
Sfxn5 ENSMUSG00000033720	0.135594	0.7760203
Abhd16a ENSMUSG0000000703€	0.0716195	0.7761653
Gmds ENSMUSG00000038372	0.0991338	0.7761653
Nxt1 ENSMUSG00000036992	-0.0827583	0.7761653

Cnm2 ENSMUSG00000064105	0.1300079	0.7761653
Cpsf4 ENSMUSG00000018727	0.3881999	0.7761653
Ubox5 ENSMUSG00000027300	-0.1220935	0.7761653
Nup210 ENSMUSG00000030091	-0.4806692	0.7761653
Cdk6 ENSMUSG00000040274	-0.0950097	0.7761653
Fuom ENSMUSG00000025466	0.2365453	0.7761653
Snx11 ENSMUSG00000020876	-0.1026581	0.7761653
Gatad2a ENSMUSG00000036180	0.0700005	0.7761653
Smpd13b ENSMUSG00000028885	0.0780052	0.7761653
Rabgef1 ENSMUSG00000025340	-0.0933063	0.7761653
Ttc27 ENSMUSG00000024078	0.0834359	0.7763677
Dctn6 ENSMUSG00000031516	-0.1025699	0.7772975
Churc1 ENSMUSG00000090258	-0.2238191	0.7772975
Map3k12 ENSMUSG00000023050	0.0944559	0.7772975
Il18rap ENSMUSG00000026068	-0.2756851	0.7772975
Enpep ENSMUSG00000028024	0.6652871	0.7772975
Crip2 ENSMUSG00000006356	-0.1140784	0.7772975
Tfap4 ENSMUSG00000005718	-0.072221	0.7772975
Ndufb11 ENSMUSG00000031059	-0.0891011	0.777579
Erh ENSMUSG00000021131	-0.0754628	0.7775802
Surf6 ENSMUSG00000036160	0.079061	0.7776996
Pbx2 ENSMUSG00000034673	-0.0716887	0.7778357
Crabp1 ENSMUSG00000032291	0.078381	0.7778357
Cops6 ENSMUSG00000019494	-0.0771739	0.7778357
Mum1 ENSMUSG00000020156	-0.076215	0.7778357
Lst1 ENSMUSG00000073412	-0.7801547	0.7778357
Bcar1 ENSMUSG00000031955	0.0738433	0.7778357
Zmiz1 ENSMUSG00000007817	0.0788161	0.7778357
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Pfdn2 ENSMUSG00000006412	-0.0816576	0.7778357
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Ralgapa2 ENSMUSG00000037110	-0.2501259	0.7778357
Itgb4 ENSMUSG00000020758	-0.3303295	0.7778357
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Vps33a ENSMUSG00000029434	0.0816041	0.7779349
Fgfr2 ENSMUSG00000030849	-0.1243233	0.7779349
Scyl2 ENSMUSG00000069539	-0.1345344	0.7779349
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Smim5 ENSMUSG00000048442	-0.7763001	0.7779349
Yipf6 ENSMUSG00000047694	-0.1458811	0.7779349
Hdh2 ENSMUSG00000025421	0.0919503	0.7779349
Ube2q2 ENSMUSG00000032307	-0.115375	0.7779349
Thsd4 ENSMUSG00000032289	0.4976621	0.7779349
Syf2 ENSMUSG00000028821	0.0795339	0.7779349
Fam84b ENSMUSG00000072568	0.2947424	0.7779349
Cdca7l ENSMUSG00000021175	0.1009523	0.7779349
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Cpd ENSMUSG00000020841	-0.085325	0.7779349
Bcas2 ENSMUSG00000005687	-0.0716339	0.7779349
Aldh2 ENSMUSG00000029455	0.0692707	0.7779349
Rnf39 ENSMUSG00000036492	0.8339762	0.7779349
Prickle1 ENSMUSG00000036158	0.1452487	0.7779349

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Porcn ENSMUSG00000031169	0.197714	0.7785474
Vsn1 ENSMUSG00000054459	0.418985	0.7786824
Rprd1a ENSMUSG00000040446	-0.1152481	0.7788518
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Pip4k2a ENSMUSG00000026737	-0.1395642	0.7793735
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Hinfp ENSMUSG00000032119	0.0968766	0.7793735
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Atoh8 ENSMUSG00000037621	-0.0707807	0.7793735
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Lmnb2 ENSMUSG00000062075	0.0743235	0.7793735
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Muc1 ENSMUSG00000042784	0.1802812	0.7797774
Il7 ENSMUSG00000040329	-0.4732951	0.7801159
Thada ENSMUSG00000024251	0.1070627	0.7803408
Tnfsfm13 ENSMUSG0000001875	0.4154147	0.7803585
Trim41 ENSMUSG00000040365	0.0796176	0.7803585
Nom1 ENSMUSG00000001569	-0.0728897	0.7804648
Psmc5 ENSMUSG00000026869	-0.0727215	0.7806967
Mettl4 ENSMUSG00000055660	0.1744913	0.7807202
Papog ENSMUSG00000020273	-0.2439143	0.7807202
Npc2 ENSMUSG00000021242	0.0703773	0.7807376
Nim1k ENSMUSG00000095930	-0.2942216	0.7807376
Sesn1 ENSMUSG00000038332	0.1082563	0.7807984
Ndufa11 ENSMUSG00000002379	-0.1239564	0.7807984
Il11ra1 ENSMUSG00000073889	-0.0939067	0.7807984
Chst15 ENSMUSG00000030930	0.217746	0.7807984
Epop ENSMUSG00000043439	-0.082591	0.7807984
Edem1 ENSMUSG00000030104	-0.0804401	0.7807984
Sfswap ENSMUSG00000029439	0.0717206	0.7807984
Slc35b2 ENSMUSG00000037089	-0.0701756	0.7809809
Yipf3 ENSMUSG00000071074	0.0695446	0.7809809
Fem1a ENSMUSG00000043683	0.0813318	0.7809809
Plin5 ENSMUSG00000011305	-0.6696628	0.7809809
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Ppfibp1 ENSMUSG00000016487	-0.0756233	0.7809809
B3galt6 ENSMUSG00000050796	0.1142208	0.7809809



Thtpa ENSMUSG00000045691	0.1581868	0.7809809
Cpsf6 ENSMUSG00000055531	0.0728951	0.7809809
Dlx4 ENSMUSG00000020871	0.4616266	0.7809809
Ppa1 ENSMUSG00000020089	0.0745802	0.7809809
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Dpm3 ENSMUSG00000042737	-0.1354453	0.7812122
Uggt1 ENSMUSG00000037470	0.0686581	0.7812373
Gpank1 ENSMUSG00000092417	0.1049094	0.7812373
B3gnt9 ENSMUSG00000069920	0.1233944	0.7812373
Vsig10 ENSMUSG00000070604	0.1834268	0.7812373
Mrpl18 ENSMUSG00000057388	-0.0796711	0.7812373
G6pdx ENSMUSG00000031400	0.0727156	0.7812373
Trim62 ENSMUSG00000041000	0.2945242	0.7812373
Mtm1 ENSMUSG00000031337	0.3974396	0.7816221
Ncaph2 ENSMUSG00000008690	0.0684695	0.7818015
Nphp3 ENSMUSG00000032558	0.1533113	0.7820056
Snap91 ENSMUSG00000033419	0.5839845	0.7820056
Tex261 ENSMUSG00000014748	0.0668992	0.7821916
Tdg ENSMUSG00000034674	0.0801321	0.7821916
Atxn7l3b ENSMUSG00000074748	0.0715544	0.7821916
Ints1 ENSMUSG00000029547	0.0751579	0.7821916
Cenpm ENSMUSG00000068101	0.0860817	0.7821916
Klf11 ENSMUSG00000020653	0.1629982	0.7821916
Cyb5r3 ENSMUSG00000018042	0.0702476	0.7822765
Nup160 ENSMUSG00000051329	-0.1061088	0.7822765
Pdss2 ENSMUSG00000038240	0.1870372	0.7822765
Bbx ENSMUSG00000022641	-0.1294144	0.7822765
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Ptma ENSMUSG00000026238	0.0729171	0.7822765
Plpp1 ENSMUSG00000021759	-0.087105	0.7822765
Bend4 ENSMUSG00000092060	0.5200241	0.7822765
Gm3550 ENSMUSG00000078240	-0.632819	0.7822765
Nceh1 ENSMUSG00000027698	-0.1383723	0.7823707
Klhdc10 ENSMUSG00000029775	0.0850069	0.7823707
Zmynd8 ENSMUSG00000039671	0.082685	0.7823707
Xrn2 ENSMUSG00000027433	-0.0750632	0.7825669
Map3k13 ENSMUSG00000033618	0.3492622	0.7826726
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Commd4 ENSMUSG00000032295	-0.0959037	0.7826726
Prdx5 ENSMUSG00000024953	-0.0836662	0.7826726
Tmem220 ENSMUSG0000005027	-0.7228014	0.7826726
Sqstm1 ENSMUSG00000015837	0.0675929	0.7830279
Gpr157 ENSMUSG00000047875	-0.2651313	0.7830397
Zfp420 ENSMUSG00000058402	-0.286924	0.7830397
Camk2n1 ENSMUSG00000046447	-0.2830591	0.7840261
Brc3 ENSMUSG00000031201	-0.1585944	0.7848762
1700030J22Rik ENSMUSG00000000000	0.4010348	0.7849429
Pole ENSMUSG00000007080	0.0696851	0.7849429
Lgals4 ENSMUSG00000053964	0.406834	0.7849429
Tmem38b ENSMUSG0000002842	-0.1766317	0.7852091
Fip111 ENSMUSG00000029227	0.0686394	0.7853834
Opa3 ENSMUSG00000052214	0.071082	0.7855311

Dact1 ENSMUSG00000044548	0.1715003	0.7856917
Dmbx1 ENSMUSG00000028707	0.3329692	0.7860224
Hmox2 ENSMUSG00000004070	0.0997191	0.7860224
Ostf1 ENSMUSG00000024725	-0.0681564	0.7860312
Cep295nl ENSMUSG0000007643	0.2135714	0.7860312
Wwtr1 ENSMUSG00000027803	-0.0746939	0.7860312
Sec24a ENSMUSG00000036391	0.1621852	0.7860312
Map4 ENSMUSG00000032479	0.0673113	0.7860312
Sec22c ENSMUSG00000061536	-0.1187446	0.7860312
Iqsec1 ENSMUSG00000034312	0.0952801	0.7860312
Efcab11 ENSMUSG00000021176	-0.208208	0.7860312
Pfas ENSMUSG00000020899	0.0753614	0.7860312
Tkfc ENSMUSG00000034371	0.116544	0.7860312
Mettl8 ENSMUSG00000041975	-0.1256337	0.7860312
Iffo2 ENSMUSG00000041025	0.0814473	0.7860652
C2cd2 ENSMUSG00000045975	0.1267758	0.7862901
Zmpste24 ENSMUSG0000004320	-0.0811452	0.7862901
Hist1h2ak ENSMUSG0000006302	-0.7126613	0.7862901
Eif4a1 ENSMUSG00000059796	-0.073667	0.7862901
Kcna4 ENSMUSG00000042604	0.3825019	0.7863849
Tmeff2 ENSMUSG00000026109	0.417384	0.7863849
Aatf ENSMUSG00000018697	0.0900021	0.7863849
Efna2 ENSMUSG00000003070	-0.1247479	0.7864482
Acat1 ENSMUSG00000032047	0.0703093	0.7868165
Dxo ENSMUSG00000040482	0.0805391	0.7868668
Chchd4 ENSMUSG00000034203	-0.0853161	0.7869628
Rab30 ENSMUSG00000030643	0.1270411	0.7873856
Osbp11 ENSMUSG00000022807	0.0755765	0.7873856
Arid4b ENSMUSG00000039219	-0.1432311	0.7875127
Chchd6 ENSMUSG00000030086	0.1373551	0.7875127
Wisp3 ENSMUSG00000062074	-0.8219115	0.7875127
Ntpr ENSMUSG00000031851	-0.1179021	0.7875127
Agrn ENSMUSG00000041936	0.0750758	0.7875127
Fbxo18 ENSMUSG00000058594	-0.0784083	0.7881694
Man1b1 ENSMUSG00000036646	0.0726737	0.7882543
2310061I04Rik ENSMUSG000000	-0.0931573	0.7882543
Ehbp11 ENSMUSG00000024937	-0.0676871	0.7884445
Bik ENSMUSG00000016758	0.7596177	0.7884445
Hic2 ENSMUSG00000050240	0.1893324	0.7887286
Sgpl1 ENSMUSG00000020097	0.0738705	0.7887286
Zdhhc12 ENSMUSG00000015335	0.0959068	0.7887286
Hs3st3b1 ENSMUSG0000007040	-0.2695877	0.7893915
Eif5a2 ENSMUSG00000050192	-0.1999638	0.789515
Cyb5r4 ENSMUSG00000032872	0.1121749	0.7895963
Pcyox1 ENSMUSG00000024579	-0.1015034	0.7895963
Sfr1 ENSMUSG00000025066	0.0711723	0.7895963
Pmaip1 ENSMUSG00000024521	-0.3110818	0.7898757
Cfap157 ENSMUSG00000038987	-0.1877404	0.7898757
Fchsd1 ENSMUSG00000038524	-0.1486571	0.7901101
Arid2 ENSMUSG00000033237	-0.0939629	0.7901101
R3hdm1 ENSMUSG00000056211	0.0856068	0.7901101
Pcdhb22 ENSMUSG00000073591	-0.2533863	0.7901101
Fam19a2 ENSMUSG00000044071	-0.2483303	0.7901101

Adamts14 ENSMUSG0000005990	0.0876697	0.7901101
BC005537 ENSMUSG000000191	0.0682485	0.7901101
Ppan ENSMUSG00000004100	-0.0701736	0.7901196
Naga ENSMUSG00000022453	-0.0908959	0.7901196
Apopt1 ENSMUSG00000037787	0.1193258	0.7901196
Apbb2 ENSMUSG00000029207	0.0785244	0.7907107
Cyth3 ENSMUSG00000018001	0.0707949	0.7907107
Mettl18 ENSMUSG00000041396	0.3106634	0.7907107
Prrt4 ENSMUSG00000079654	-0.5827089	0.7907107
Bap1 ENSMUSG00000021901	0.070491	0.7907107
Wdr19 ENSMUSG00000037890	0.1686107	0.7907107
Sc1t1 ENSMUSG00000059834	0.2133312	0.7907107
Srp54c ENSMUSG00000079108	0.2271051	0.7907107
Sf1 ENSMUSG00000024949	0.0673922	0.7907107
Pttg1 ENSMUSG00000020415	-0.0853892	0.7907107
Romo1 ENSMUSG00000067847	-0.1050764	0.7907107
Clip1 ENSMUSG00000049550	-0.0944725	0.7907107
Nme1 ENSMUSG00000037601	-0.1468035	0.7907107
Tmco3 ENSMUSG00000038497	0.0791671	0.7907107
Gimp ENSMUSG00000001418	0.0723114	0.7907107
Golph3 ENSMUSG00000046519	-0.1388222	0.7907107
Clec3b ENSMUSG00000025784	0.8336777	0.7907107
Atrx ENSMUSG00000031229	-0.1358108	0.7908338
Wrb ENSMUSG00000023147	-0.0969559	0.791574
Sema3g ENSMUSG00000021904	-0.164156	0.791926
Tmem63a ENSMUSG0000002651	0.0752274	0.791926
Fam122b ENSMUSG0000003602	-0.2251157	0.7925007
Atp5g3 ENSMUSG00000018770	0.0755789	0.7927607
Atxn7l3 ENSMUSG00000059995	0.0685856	0.7929614
Tbx3 ENSMUSG00000018604	0.2461897	0.7929614
Pear1 ENSMUSG00000028073	-0.080732	0.7929614
Acaa2 ENSMUSG00000036880	0.0720601	0.7929614
Cenps ENSMUSG00000073705	-0.1239709	0.7929614
Tmppe ENSMUSG00000079260	0.1569535	0.7929614
A930017K11Rik ENSMUSG000000	-0.678569	0.7929614
Cstf2t ENSMUSG00000053536	-0.0780381	0.7929614
Fam198a ENSMUSG0000003823	0.4255854	0.7929614
Cript ENSMUSG00000024146	-0.1147022	0.7929614
Thrap3 ENSMUSG00000043962	0.0662953	0.7929614
Tbx2 ENSMUSG00000000093	0.5809049	0.7929614
Snrpc ENSMUSG00000024217	-0.0759824	0.7929614
Cfb ENSMUSG00000090231	0.5043587	0.7929614
Fbxo17 ENSMUSG00000030598	-0.1164564	0.7929614
Med27 ENSMUSG00000026799	0.1035015	0.7929614
Rab28 ENSMUSG00000029128	0.0894959	0.7929614
Hist1h2ag ENSMUSG0000006930	-0.8222507	0.7929614
Plau ENSMUSG00000021822	-0.1256642	0.7929614
Ppib ENSMUSG00000032383	0.076105	0.793014
Ptpn11 ENSMUSG00000043733	0.0698379	0.793014
Sf3b3 ENSMUSG00000033732	0.0682917	0.7930689
Dapk2 ENSMUSG00000032380	0.3753298	0.7930689
Endov ENSMUSG00000039850	0.0914714	0.793093
Nmnat3 ENSMUSG00000032456	-0.2331806	0.7931586

Cyp4f17 ENSMUSG00000091586	-0.273807	0.7931586
Atpif1 ENSMUSG00000054428	-0.0949288	0.7931586
Srbd1 ENSMUSG00000024135	0.096465	0.7931586
Plpp3 ENSMUSG00000028517	0.0790829	0.7931586
Ythdf3 ENSMUSG00000047213	-0.0846944	0.793334
Dnajc25 ENSMUSG00000070972	-0.1083988	0.793334
Rnase10 ENSMUSG00000021872	0.7568923	0.793334
Epb4111 ENSMUSG00000027624	0.0689141	0.793334
Col6a1 ENSMUSG00000001119	0.0643647	0.7938425
Elmsan1 ENSMUSG00000042507	0.0894253	0.7939792
Snx16 ENSMUSG00000027534	-0.231126	0.7940483
Men1 ENSMUSG00000024947	0.0698123	0.7940483
Atp9b ENSMUSG00000024566	0.0714666	0.7940629
D11Wsu47e ENSMUSG00000041	-0.1161599	0.7940629
Egln2 ENSMUSG00000058709	-0.074294	0.7940629
Eaf1 ENSMUSG00000021890	0.078359	0.7940629
Creb311 ENSMUSG00000027230	0.0661843	0.7940629
Fmod ENSMUSG00000041559	0.0738111	0.7940629
Hist1h4j ENSMUSG00000067455	-0.5754864	0.7940629
Gas6 ENSMUSG00000031451	0.0740436	0.7940629
Rusc1 ENSMUSG00000041263	0.1727618	0.7940629
Pprc1 ENSMUSG00000055491	0.0669962	0.7941249
Gtf2h3 ENSMUSG00000029387	0.0762333	0.7942488
Slc25a4 ENSMUSG00000031633	-0.0711411	0.7943644
Gm3435 ENSMUSG00000116895	0.6265907	0.7947461
Shc2 ENSMUSG00000020312	0.0837038	0.7950209
Gpr149 ENSMUSG00000043441	-0.20383	0.7950972
Smim13 ENSMUSG00000091264	0.1279839	0.795269
Ppme1 ENSMUSG00000030718	0.0721745	0.795269
Ddx39b ENSMUSG00000019432	0.0655253	0.795269
Cavin1 ENSMUSG00000004044	-0.0646087	0.795269
Fat4 ENSMUSG00000046743	0.1805738	0.795269
Ifnar2 ENSMUSG00000022971	0.0783501	0.795269
Mfrp ENSMUSG00000034739	-0.680508	0.795269
Hps4 ENSMUSG00000042328	0.0994314	0.795269
Fam221a ENSMUSG00000047115	-0.2574609	0.795269
Rnaseh2c ENSMUSG0000002492	-0.0927375	0.795269
Srsf4 ENSMUSG00000028911	0.0840049	0.7955221
Dhx8 ENSMUSG00000034931	0.0821001	0.7964661
Tet2 ENSMUSG00000040943	-0.1593917	0.7967653
Sf3b4 ENSMUSG00000068856	0.0658561	0.7968087
Gtse1 ENSMUSG00000022385	0.0674563	0.7968902
2310039H08Rik ENSMUSG000000	-0.1119706	0.7968902
Ppp5c ENSMUSG00000003099	-0.0638513	0.7969996
Med28 ENSMUSG00000015804	0.070113	0.7969996
Rad9a ENSMUSG00000024824	0.0657964	0.7970582
Rpl34 ENSMUSG00000062006	-0.1191938	0.7970582
Rpl38 ENSMUSG00000057322	-0.2186883	0.7971611
Timm17b ENSMUSG0000003115	-0.0842245	0.7971611
Crybg3 ENSMUSG00000022723	-0.1449626	0.7976644
Cenpb ENSMUSG00000068267	-0.0704149	0.7976644
Tmem144 ENSMUSG0000002795	0.1994844	0.7981937
Bola1 ENSMUSG00000015943	-0.1401503	0.7983863

Leng8 ENSMUSG00000035545	-0.0686987	0.7983863
Rps19 ENSMUSG00000040952	-0.0896533	0.7983863
Epg5 ENSMUSG00000039840	0.1254466	0.7983863
Mthfd1 ENSMUSG00000040675	0.0683389	0.7983863
Sf3a1 ENSMUSG00000002129	0.0665896	0.7983863
Sult6b1 ENSMUSG00000038045	-0.676092	0.7983863
B630019K06Rik ENSMUSG00000040952	-0.3078291	0.7983863
Neo1 ENSMUSG00000032340	-0.0840533	0.7983863
Maml3 ENSMUSG000000061143	0.147098	0.7986642
Rcc2 ENSMUSG00000040945	0.06404	0.7986642
Gpatch2 ENSMUSG00000021254	0.0987087	0.7986642
Asns ENSMUSG00000029752	0.0697633	0.7989408
Trio ENSMUSG00000022263	0.0726269	0.7989408
Brd3 ENSMUSG00000026918	0.0670906	0.7989408
Gnao1 ENSMUSG00000031748	-0.2440102	0.7989408
Bola2 ENSMUSG00000047721	-0.0956699	0.7989408
Hunk ENSMUSG00000053414	0.1000809	0.7989408
Trappc4 ENSMUSG00000032112	-0.0843506	0.7989408
Trmt61a ENSMUSG00000060950	-0.0847068	0.7989408
Dhx37 ENSMUSG00000029480	0.0686597	0.7989408
2310011J03Rik ENSMUSG00000040952	-0.0726004	0.7989408
Sorcs2 ENSMUSG00000029093	-0.1644672	0.7989408
Cd164 ENSMUSG00000019818	0.0678813	0.7989408
Smndc1 ENSMUSG00000025024	0.0725734	0.7989408
Vat1 ENSMUSG00000034993	0.0697047	0.7989408
Hexa ENSMUSG00000025232	-0.076469	0.7989408
Tmem268 ENSMUSG0000004591	0.1183546	0.7989408
Wdr45b ENSMUSG00000025173	0.0741746	0.7989408
Rpl27-ps3 ENSMUSG0000007364	-0.3026826	0.7989408
Rrp36 ENSMUSG00000023971	0.0759925	0.7989408
Rrnad1 ENSMUSG00000004896	-0.0865431	0.7989408
Rpl39 ENSMUSG00000079641	-0.1727062	0.7989408
Dbn1 ENSMUSG00000034675	0.0652511	0.7991095
Eln ENSMUSG00000029675	-0.3434478	0.7991735
Arpc1b ENSMUSG00000029622	0.0650003	0.7991735
Cbwd1 ENSMUSG00000024878	0.1247239	0.7991735
Ube2m ENSMUSG00000005575	-0.0686883	0.7992554
Spryd4 ENSMUSG00000051346	-0.1320737	0.7992554
Sec11c ENSMUSG00000024516	0.1057782	0.7992554
Pcsk4 ENSMUSG00000020131	0.1192233	0.7992554
Alkbh3 ENSMUSG00000040174	-0.1025519	0.7992554
Rad9b ENSMUSG00000038569	-0.2966761	0.7992554
Ppp1r8 ENSMUSG00000028882	-0.0669644	0.7992554
Kat2a ENSMUSG00000020918	0.0661641	0.7992554
Nox4 ENSMUSG00000030562	-0.5811272	0.7992554
Kif14 ENSMUSG00000041498	-0.1497391	0.7992554
Rev1 ENSMUSG00000026082	0.1394636	0.7992554
Rrn3 ENSMUSG00000022682	0.0673635	0.7992554
Tmem50a ENSMUSG0000002882	0.0727917	0.7992554
Ubqln2 ENSMUSG00000050148	0.0673095	0.7992554
Acad10 ENSMUSG00000029456	0.1933531	0.7992554
Abca8b ENSMUSG00000020620	-0.7682367	0.7992554
Atp6v0b ENSMUSG00000033379	-0.0703395	0.7992554

Abcc1 ENSMUSG00000023088	0.0701315	0.7992554
Lrrc39 ENSMUSG00000027961	-0.9053367	0.7992554
Abcd3 ENSMUSG00000028127	-0.0957513	0.7992554
Zbtb3 ENSMUSG00000071661	0.1508685	0.7992554
Trpv4 ENSMUSG00000014158	0.4789974	0.7992554
Alkbh4 ENSMUSG00000039754	0.1476236	0.7992554
Uox ENSMUSG00000028186	-0.7500612	0.7992554
Tmem9 ENSMUSG00000026411	-0.0924899	0.7992554
Eea1 ENSMUSG00000036499	-0.1391058	0.7992554
Asb6 ENSMUSG00000039483	0.0690066	0.7992554
Ogfr ENSMUSG00000049401	0.0649556	0.7992554
Tagap ENSMUSG00000033450	-0.1990067	0.7992554
Fnta ENSMUSG00000015994	-0.0702449	0.7992554
Rnf181 ENSMUSG00000055850	-0.0691922	0.7992554
Ppp2r2d ENSMUSG00000041769	0.0713849	0.7992554
Tango6 ENSMUSG00000041949	-0.1025265	0.7992554
Polr3f ENSMUSG00000027427	-0.1019747	0.7992554
Arhgap8 ENSMUSG00000078954	0.3196869	0.7992554
Snupn ENSMUSG00000055334	0.1488239	0.7992554
Pcsk9 ENSMUSG00000044254	0.2141884	0.7992554
Lrig2 ENSMUSG00000032913	-0.1386415	0.7992554
Gadd45gip1 ENSMUSG00000033	-0.0753457	0.7992554
Dlat ENSMUSG00000000168	-0.0828028	0.7992554
Mex3a ENSMUSG00000074480	0.0679246	0.7992554
Gxylt2 ENSMUSG00000030074	0.1214994	0.7992554
Gclm ENSMUSG00000028124	0.085498	0.7992554
Elp6 ENSMUSG00000054836	-0.1078557	0.7992554
Lrch2 ENSMUSG00000031290	0.2817498	0.7992554
Has1 ENSMUSG00000003665	-0.111406	0.7992554
Nfrkb ENSMUSG00000042185	0.1003564	0.7992554
Hdac1 ENSMUSG00000028800	0.0646449	0.7992554
Leo1 ENSMUSG00000042487	0.0825786	0.7992554
Srpk1 ENSMUSG00000004865	-0.0690541	0.7992554
Sp100 ENSMUSG00000026222	0.2443829	0.7992554
Traf7 ENSMUSG00000052752	0.0656619	0.7992554
Ksr1 ENSMUSG00000018334	-0.0797292	0.7992554
Gtpbp3 ENSMUSG00000007610	-0.0702996	0.7992554
Zfp652 ENSMUSG00000075595	0.0994461	0.7992554
Ppp3r1 ENSMUSG00000033953	-0.0681395	0.799319
Tpp1 ENSMUSG00000030894	-0.0793402	0.7993356
Tmem127 ENSMUSG0000003485	0.0666767	0.7993356
2310022B05Rik ENSMUSG00000	0.0664647	0.7993356
Pars2 ENSMUSG00000043572	0.1185408	0.7995146
Tgfb1 ENSMUSG00000035493	0.0647229	0.7997088
Rab11b ENSMUSG00000077450	0.068065	0.8001863
Wdcp ENSMUSG00000051721	0.1037969	0.8001863
Zfp874b ENSMUSG00000059839	-0.3955789	0.8001863
Znrd1 ENSMUSG00000036315	-0.0971174	0.8001863
Trim39 ENSMUSG00000045409	0.0768896	0.8006451
Hnrnpul2 ENSMUSG0000007165	0.0665134	0.8007313
Efcab2 ENSMUSG00000026495	-0.4979687	0.8007438
Gpc4 ENSMUSG00000031119	0.0790393	0.8007438
Ubqln4 ENSMUSG00000008604	0.0652894	0.8007438

Map1lc3b ENSMUSG0000003181	0.0668784	0.8007438
Prss12 ENSMUSG00000027978	0.3312973	0.8007438
Ascc3 ENSMUSG00000038774	-0.1175028	0.8007438
Entpd6 ENSMUSG00000033068	0.1082424	0.8007438
Cilp2 ENSMUSG00000044006	0.2516073	0.8007438
Cox16 ENSMUSG00000091803	-0.1807758	0.8008082
Gm20219 ENSMUSG0000011021	-0.3378399	0.8008082
Grk6 ENSMUSG00000074886	0.0653461	0.8008082
Arntl2 ENSMUSG00000040187	0.1526499	0.8008301
Mlec ENSMUSG00000048578	0.0645966	0.8010302
Tars ENSMUSG00000022241	0.0642814	0.8010302
Hps5 ENSMUSG00000014418	-0.1011456	0.8013725
Ndufa2 ENSMUSG00000014294	-0.0901637	0.8014517
Arnt2 ENSMUSG00000015709	0.1401956	0.8014517
Tsr3 ENSMUSG00000015126	-0.0773916	0.8017191
Zkscan6 ENSMUSG00000018347	-0.1394833	0.8017337
Ccny ENSMUSG00000024286	-0.0696213	0.8017357
Zfp827 ENSMUSG00000071064	-0.0835104	0.8017357
Ccdc189 ENSMUSG00000057176	-0.2898365	0.8017357
Adprh ENSMUSG00000002844	0.0707411	0.8017357
Sag ENSMUSG00000056055	0.5287791	0.8017357
Tcim ENSMUSG00000056313	-0.4687345	0.8017357
Pgap2 ENSMUSG00000030990	0.1020499	0.8017357
Fbxo39 ENSMUSG00000070388	0.5455622	0.8017357
Topbp1 ENSMUSG00000032555	-0.073016	0.8017357
St6gal1 ENSMUSG00000022885	-0.4096097	0.8017357
Prpsap2 ENSMUSG00000020528	-0.0994486	0.8017357
Aes ENSMUSG00000054452	0.0760564	0.8017357
Kctd13 ENSMUSG00000030685	-0.1134702	0.8017357
Ccdc107 ENSMUSG00000028461	-0.0975449	0.8017357
Lgals7 ENSMUSG00000053522	-0.5145356	0.8017357
Kat7 ENSMUSG00000038909	0.0663711	0.8017357
Fgd5 ENSMUSG00000034037	-0.2571695	0.801798
Lpp ENSMUSG00000033306	0.0916661	0.801798
Zfp788 ENSMUSG00000074165	-0.3146893	0.801798
Tslp ENSMUSG00000024379	0.2485466	0.8019136
Hoxc4 ENSMUSG00000075394	-0.0721635	0.8020658
Tgfbr3l ENSMUSG00000089736	0.341177	0.8020903
Ppp6c ENSMUSG00000026753	-0.0895506	0.8022302
9530077C05Rik ENSMUSG00000	-0.3204033	0.8023542
Uqcc3 ENSMUSG00000071654	-0.0964262	0.8025958
Terf2 ENSMUSG00000031921	0.0754119	0.8026211
Zscan29 ENSMUSG00000050619	-0.1188459	0.8026211
Lclat1 ENSMUSG00000054469	0.0934465	0.8026211
Zfp74 ENSMUSG00000059975	-0.1678996	0.8026211
Rrp15 ENSMUSG00000001305	-0.0764625	0.8026211
Pla2g4b ENSMUSG00000098488	-0.4340568	0.8026514
Mkrn1 ENSMUSG00000029922	0.0991595	0.8026916
Gtf2ird1 ENSMUSG00000023079	-0.084912	0.8026916
Pigb ENSMUSG00000079469	0.1648597	0.8027499
Lpxn ENSMUSG00000024696	-0.785319	0.8027499
Dnm1 ENSMUSG00000026825	0.0674575	0.8027499
Tmem95 ENSMUSG00000094845	0.4731977	0.8027499

Chpf2 ENSMUSG00000038181	0.0803161	0.8028006
Hivep1 ENSMUSG00000021366	0.1224146	0.8031437
Mau2 ENSMUSG00000031858	0.0670441	0.8031437
Tnfrsf11a ENSMUSG0000002632	0.2340258	0.8031437
Synj2 ENSMUSG00000023805	-0.0997005	0.8031901
Thoc7 ENSMUSG00000053453	-0.095857	0.803397
Dtwd1 ENSMUSG00000023330	0.0760678	0.8034041
Ccdc77 ENSMUSG00000030177	-0.1168819	0.8034041
Zfp995 ENSMUSG00000078546	-0.2958732	0.8034461
Tm4sf1 ENSMUSG00000027800	0.0666309	0.8034461
Coro1b ENSMUSG00000024835	0.0758849	0.8034461
Hist1h2bj ENSMUSG0000006930	-0.5189588	0.8034461
Ddx51 ENSMUSG00000029504	-0.0716654	0.8034461
Arpc51 ENSMUSG00000026755	0.0643479	0.8034461
Zfp286 ENSMUSG00000047342	-0.2031038	0.8034461
Usp6nl ENSMUSG00000039046	0.0795899	0.8034461
Map1a ENSMUSG00000027254	0.1897622	0.8034461
Icam1 ENSMUSG00000037405	0.4824319	0.8034461
Casp3 ENSMUSG00000031628	0.06965	0.8034461
Pomgnt2 ENSMUSG00000066235	0.1452565	0.8034461
Pigp ENSMUSG00000022940	-0.1526192	0.8034461
Wdr76 ENSMUSG00000027242	-0.1132816	0.8034461
Pcdhga6 ENSMUSG00000103793	0.1760716	0.8034461
Lamp2 ENSMUSG00000016534	-0.0674038	0.8039232
Morf411 ENSMUSG00000062270	-0.0672122	0.8045356
Hspa12b ENSMUSG00000074793	-0.1770527	0.804787
Cpm ENSMUSG00000020183	0.4035347	0.8048469
Sac3d1 ENSMUSG00000024790	-0.0669519	0.8048469
Zfp1 ENSMUSG00000055835	0.1138957	0.8049118
Zmynd10 ENSMUSG0000001004	-0.5592082	0.8053533
Qsox1 ENSMUSG00000033684	0.0637954	0.8057142
B3galnt2 ENSMUSG00000039242	0.1337376	0.8057741
Cd2ap ENSMUSG00000061665	-0.1013216	0.8057741
Erc8 ENSMUSG00000021694	0.1473304	0.8059066
Mdp1 ENSMUSG00000002329	-0.1071251	0.8059066
Sephs1 ENSMUSG00000026662	0.0679494	0.8059066
Mfsd12 ENSMUSG00000034854	0.1006962	0.8059066
Ncbp3 ENSMUSG00000020783	-0.0857601	0.8063581
Esyt1 ENSMUSG00000025366	0.0638085	0.8065663
Card10 ENSMUSG00000033170	0.1027906	0.8065663
Fiz1 ENSMUSG00000061374	0.0868743	0.8065663
Sys1 ENSMUSG00000045503	-0.0853329	0.8065663
Mad111 ENSMUSG00000029554	0.0709314	0.8065663
Prkag1 ENSMUSG00000067713	-0.1063169	0.8065663
Erbp3 ENSMUSG00000018166	-0.4095297	0.8065663
Smad5 ENSMUSG00000021540	-0.0706874	0.8065663
Prdx1 ENSMUSG00000028691	-0.0779349	0.8065663
Mcm3ap ENSMUSG00000001150	-0.0665006	0.8065663
Tango2 ENSMUSG00000013539	0.1007645	0.8065663
Dnajb6 ENSMUSG00000029131	0.0666661	0.8065663
Cnbd2 ENSMUSG00000038085	-0.4897585	0.8065663
Mfsd2a ENSMUSG00000028655	-0.2320447	0.8065663
Psm6 ENSMUSG00000021737	-0.0661944	0.8065663



Ilvbl ENSMUSG00000032763	0.0923491	0.8065663
Ifitm1 ENSMUSG00000025491	0.1625597	0.8066363
Ss1811 ENSMUSG00000039086	0.1619697	0.8066363
Phyhip1 ENSMUSG00000037747	-0.2710236	0.8069517
Pms1 ENSMUSG00000026098	-0.2643815	0.8074331
Slc25a39 ENSMUSG00000018677	0.0662099	0.8075324
Tbc1d10b ENSMUSG0000004249	0.0730067	0.8075324
Ralgapa1 ENSMUSG00000021027	-0.1548347	0.8081913
Egf ENSMUSG00000028017	-0.2772467	0.8081913
Anapc13 ENSMUSG00000035048	-0.1005846	0.808249
Slc22a5 ENSMUSG00000018900	0.1503289	0.808249
St3gal2 ENSMUSG00000031749	0.0641697	0.8084273
Soga1 ENSMUSG00000055485	0.0942021	0.8084304
Plac1 ENSMUSG00000061082	-0.453639	0.8086238
Ccdc96 ENSMUSG00000050677	-0.4265366	0.8086238
Sord ENSMUSG00000027227	0.0797702	0.8086238
Egr1 ENSMUSG00000038418	-0.073432	0.8086238
Rnf41 ENSMUSG00000025373	0.0765185	0.8091532
Zfp81 ENSMUSG00000003929	-0.2415205	0.8091532
Cdkn1c ENSMUSG00000037664	-0.1049582	0.8091532
Dgki ENSMUSG00000038665	-0.4426039	0.8091532
Zfp280b ENSMUSG00000049764	-0.1000022	0.8091532
Tmem115 ENSMUSG0000001004	0.0691688	0.8091532
Mrps26 ENSMUSG00000037740	-0.071214	0.8091532
Bbs10 ENSMUSG00000035759	-0.2529036	0.8092474
Ms4a4d ENSMUSG00000024678	0.1700841	0.8093904
2610002M06Rik ENSMUSG00000000000	0.1047811	0.8093904
Slc25a38 ENSMUSG00000032515	0.1026379	0.8093904
Arf1 ENSMUSG00000048076	0.0618977	0.8093904
Tmem126a ENSMUSG000000306	-0.085044	0.8093904
Fam129b ENSMUSG00000026796	0.0612089	0.8093904
Cops3 ENSMUSG00000019373	-0.0743801	0.8095288
Arhgef12 ENSMUSG00000059492	0.095786	0.8095288
Grasp ENSMUSG00000000531	-0.1371546	0.8095288
Commd7 ENSMUSG00000056941	-0.0821812	0.8100274
Kiss1r ENSMUSG00000035773	0.4361948	0.81062
S100a10 ENSMUSG00000041959	-0.0829156	0.81062
Dyrk1b ENSMUSG00000002409	0.1323782	0.8107199
Sdc4 ENSMUSG00000017009	0.0644957	0.8107199
Plppr2 ENSMUSG00000040563	0.1284005	0.8107199
Pcyt1b ENSMUSG00000035246	0.2164802	0.8107199
Adgra3 ENSMUSG00000029090	-0.1042829	0.8107513
Vegfc ENSMUSG00000031520	0.2621001	0.8107913
Trim6 ENSMUSG00000072244	0.2537724	0.8107913
Pwpp2a ENSMUSG00000044950	-0.1034093	0.8107913
Cyp4f13 ENSMUSG00000024055	-0.2233719	0.8107913
Fbxo31 ENSMUSG00000052934	0.077491	0.8107913
Slc25a35 ENSMUSG00000018740	0.4093062	0.8107913
Mett19 ENSMUSG00000030876	-0.0731717	0.8109439
Cped1 ENSMUSG00000062980	0.1753941	0.8109439
Igfbp4 ENSMUSG00000017493	0.2040496	0.8109439
Auh ENSMUSG00000021460	0.0830225	0.8111599
Eml1 ENSMUSG00000058070	-0.0782633	0.8111599

Nubp1 ENSMUSG00000022503	0.079278	0.8111599
Aars ENSMUSG00000031960	0.0630736	0.8111599
Rad23b ENSMUSG00000028426	0.063584	0.8111599
Phldb3 ENSMUSG00000074277	0.2394846	0.8111599
Wasl ENSMUSG00000029684	-0.0921517	0.8111599
Taldo1 ENSMUSG00000025503	0.0650105	0.8111599
Ninl ENSMUSG00000068115	0.0959953	0.8111599
Spats1 ENSMUSG00000023935	-0.6075888	0.8111599
Gng5 ENSMUSG00000068523	-0.0762255	0.8111599
Vdac3 ENSMUSG00000008892	0.0669055	0.8111599
Plcx2 ENSMUSG00000087141	0.2124869	0.8111599
Abr ENSMUSG00000017631	0.0656101	0.8111599
Gstm2 ENSMUSG00000040562	-0.0882428	0.8111599
Cblb ENSMUSG00000022637	0.1116777	0.8111599
Ngef ENSMUSG00000026259	-0.2288831	0.8111599
Osbp18 ENSMUSG00000020189	-0.1618145	0.8111599
Dusp23 ENSMUSG00000026544	-0.382765	0.8111599
Cep72 ENSMUSG00000021572	0.2177078	0.8111599
Cbx2 ENSMUSG00000025577	0.0844836	0.8111599
Tmem121 ENSMUSG0000004903	0.114636	0.8111599
Smim14 ENSMUSG00000037822	0.0848367	0.8111599
Ubxn2a ENSMUSG00000020634	-0.1119512	0.8111599
Krtcap2 ENSMUSG00000042747	-0.0846731	0.8111599
Tspoap1 ENSMUSG00000034156	0.3805324	0.8111599
Plod1 ENSMUSG00000019055	0.0624067	0.8111599
Zfp119a ENSMUSG00000057835	-0.3649642	0.8111599
Prss27 ENSMUSG00000050762	-0.6106012	0.8111599
St7l ENSMUSG00000045576	0.0932794	0.8111599
Lats2 ENSMUSG00000021959	-0.0832845	0.8111599
Flywch2 ENSMUSG00000023911	-0.2569047	0.8111599
Tpcn2 ENSMUSG00000048677	0.0972643	0.8111599
D2hgdh ENSMUSG00000073609	0.1549454	0.8111599
Phrf1 ENSMUSG00000038611	0.064	0.8111599
Adcy7 ENSMUSG00000031659	0.0706657	0.8112968
Tle1 ENSMUSG00000008305	0.0953899	0.8113198
Smn1 ENSMUSG00000021645	0.0700669	0.8113514
Ino80d ENSMUSG00000040865	0.1223138	0.8116503
Sptlc1 ENSMUSG00000021468	0.0821884	0.8116503
Slc2a8 ENSMUSG00000026791	-0.1390135	0.811682
Gnptab ENSMUSG00000035311	0.0834988	0.811682
Ola1 ENSMUSG00000027108	-0.0739045	0.811919
Sorbs1 ENSMUSG00000025006	0.1798321	0.8120605
Zfp68 ENSMUSG00000058291	-0.159664	0.8120859
Nat6 ENSMUSG00000079334	0.1299495	0.8120859
Slc38a4 ENSMUSG00000022464	-0.0663027	0.8121693
Gcfc2 ENSMUSG00000035125	0.2182313	0.8123259
Slc7a8 ENSMUSG00000022180	-0.6936038	0.8123259
Tcaf1 ENSMUSG00000036667	-0.1267583	0.8123259
Morf4l2 ENSMUSG00000031422	-0.0617752	0.8123259
Dcaf1 ENSMUSG00000040325	-0.0806227	0.8123259
Fam124a ENSMUSG00000035184	-0.2472563	0.8123259
Ranbp6 ENSMUSG00000074909	-0.2541257	0.8123259
Serp1nb1a ENSMUSG0000004473	0.1325148	0.8123259

Psmg4 ENSMUSG00000071451	-0.1059542	0.8123259
Zfp960 ENSMUSG00000096696	-0.6926566	0.8123259
Arl6ip4 ENSMUSG00000029404	0.0823194	0.8123259
Rnf40 ENSMUSG00000030816	0.0642277	0.8123259
Trpc4ap ENSMUSG00000038324	0.0672784	0.8123259
Mgst3 ENSMUSG00000026688	-0.1204198	0.8123259
Cpne7 ENSMUSG00000034796	-0.5118802	0.8123259
Hist1h4d ENSMUSG00000061482	-0.5047923	0.8123259
Map6 ENSMUSG00000055407	0.0693705	0.8123259
Dcun1d3 ENSMUSG00000048787	0.131568	0.8123259
Rhpn2 ENSMUSG00000030494	0.431352	0.8123259
Slc39a11 ENSMUSG00000041654	-0.1357045	0.8123259
Fam131c ENSMUSG00000006218	0.4099316	0.8123259
Rps6ka5 ENSMUSG00000021180	-0.184978	0.8123314
Nfat5 ENSMUSG00000003847	0.1277204	0.8123314
Xiap ENSMUSG00000025860	-0.0986225	0.8123314
Fam198b ENSMUSG00000027953	-0.1177536	0.8123314
Hoxd3 ENSMUSG00000079277	-0.4187732	0.8123314
Srgap2 ENSMUSG00000026425	0.1034688	0.8123314
Ift122 ENSMUSG00000030323	0.0980436	0.8123314
Adamts9 ENSMUSG00000030022	0.1561371	0.8123314
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Fyb ENSMUSG00000022148	0.6364908	0.8123314
Itrp1 ENSMUSG00000030102	0.1460436	0.8123314
Chmp7 ENSMUSG00000034190	0.0704902	0.8123314
Rtn4 ENSMUSG00000020458	-0.0650837	0.8124525
Ppie ENSMUSG00000028651	-0.0774375	0.8125305
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Lgals3 ENSMUSG00000050335	-0.0814158	0.8127805
Cplane1 ENSMUSG00000039801	-0.0903314	0.8127805
Amd2 ENSMUSG00000063953	0.4326699	0.8128564
Dennd5a ENSMUSG00000035901	0.0610192	0.8130325
Ranbp2 ENSMUSG00000003226	-0.0931764	0.8130325
Lrrc4c ENSMUSG00000050587	-0.2255115	0.8130325
L2hgdh ENSMUSG00000020988	-0.0856537	0.8130325
Plxnb1 ENSMUSG00000053646	0.1039304	0.8130748
Fkbp14 ENSMUSG00000038074	0.1464277	0.8135707
Pnpt1 ENSMUSG00000020464	-0.0632043	0.814081
Primpol ENSMUSG00000038225	-0.2410387	0.814186
Rubcnl ENSMUSG00000034959	0.368305	0.814186
Nudt19 ENSMUSG00000034875	0.0991869	0.814186
Siah1b ENSMUSG00000040749	-0.1026456	0.8141874
Clmp ENSMUSG00000032024	0.0865065	0.8141874
Dock11 ENSMUSG00000031093	0.1088782	0.8141874
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Rnf214 ENSMUSG00000042790	-0.1178151	0.8143944
Inf2 ENSMUSG00000037679	0.0620535	0.814557
Cope ENSMUSG00000055681	0.0685729	0.814557
Snap23 ENSMUSG00000027287	-0.0811968	0.814557
Rce1 ENSMUSG00000024889	0.0796202	0.8151353
Zfp58 ENSMUSG00000071291	-0.3191823	0.8151353
Ndufa4 ENSMUSG00000029632	-0.083915	0.8151353

Tyw1 ENSMUSG00000056310	0.072904	0.8151353
Ywhaz ENSMUSG00000022285	0.0625722	0.8151353
Abcc5 ENSMUSG00000022822	-0.0796473	0.815748
Fbxo44 ENSMUSG00000029001	-0.1724713	0.815748
Cox10 ENSMUSG00000042148	0.0860469	0.815748
Strip2 ENSMUSG00000039629	-0.6413414	0.8160202
Fam120b ENSMUSG00000014763	-0.0893758	0.8160202
5730480H06Rik ENSMUSG00000000000	-0.1349244	0.8160202
Slc50a1 ENSMUSG00000027953	-0.080817	0.8160202
Bloc1s2 ENSMUSG00000057506	0.0646983	0.8163689
Ltbp3 ENSMUSG00000024940	-0.060907	0.8163898
Rabepk ENSMUSG00000070953	0.0773324	0.8167128
Abhd8 ENSMUSG00000007950	0.0647691	0.8169962
Gskip ENSMUSG00000044715	-0.1048422	0.8169962
Nt5c ENSMUSG00000020736	-0.077537	0.8170053
Ckap5 ENSMUSG00000040549	-0.0864206	0.8170053
Rnf26 ENSMUSG00000053128	-0.1894817	0.8170327
Col17a1 ENSMUSG00000025064	-0.4346835	0.8170327
Arf5 ENSMUSG00000020440	-0.0643492	0.8171462
Ubp1 ENSMUSG00000028437	0.0697757	0.8171462
Mff ENSMUSG00000026150	-0.0733433	0.8176184
Exosc10 ENSMUSG00000017264	0.0631234	0.8176285
Timm8b ENSMUSG00000039016	-0.093377	0.8177695
Cog3 ENSMUSG00000034893	-0.0845192	0.8182379
Hist1h2ac ENSMUSG0000006927	-0.4929983	0.8184697
L3mbtl2 ENSMUSG00000022394	-0.0783635	0.8184697
Atg4a ENSMUSG00000079418	-0.1424343	0.8185852
Dennd2c ENSMUSG00000007379	-0.1423676	0.8187489
Copg1 ENSMUSG00000030058	0.0621316	0.818898
Snx4 ENSMUSG00000022808	-0.0639455	0.818898
Tomm20 ENSMUSG00000093904	0.0603514	0.818898
Mad211 ENSMUSG00000029910	-0.0711346	0.818898
Tulp2 ENSMUSG00000023467	0.4872617	0.8191975
Rdh8 ENSMUSG00000053773	0.3570154	0.8191975
Alg2 ENSMUSG00000039740	0.0824533	0.8193256
Ythdc1 ENSMUSG00000035851	-0.0725733	0.8193823
Psph ENSMUSG00000029446	-0.0750329	0.8201717
Tinag1 ENSMUSG00000028776	-0.1015034	0.8201717
Naa60 ENSMUSG00000005982	0.0924462	0.8201717
Fam19a5 ENSMUSG00000054863	-0.4161366	0.8201717
Rpl9 ENSMUSG00000047215	-0.0838762	0.8201717
Psm10 ENSMUSG00000031429	-0.082156	0.8203064
Zfp322a ENSMUSG00000046351	-0.1727635	0.8204325
Slc39a2 ENSMUSG00000072572	0.7007083	0.8204325
Hykk ENSMUSG00000035878	-0.2670259	0.8204325
Fech ENSMUSG00000024588	0.0682292	0.8204325
Foxo1 ENSMUSG00000044167	-0.0984519	0.8204325
Fdxr ENSMUSG00000018861	-0.1519391	0.8204325
Bach2 ENSMUSG00000040270	-0.1607045	0.8204325
Wdr25 ENSMUSG00000040877	0.1249617	0.8204325
Bean1 ENSMUSG00000031872	0.3817951	0.8204325
Mast3 ENSMUSG00000031833	0.0684224	0.8204325
Prmt2 ENSMUSG00000020230	0.0835842	0.8204325

Spata6 ENSMUSG00000034401	-0.1612583	0.8204325
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Guk1 ENSMUSG00000020444	-0.084024	0.8204325
Pgap1 ENSMUSG00000073678	-0.5984282	0.8204325
Apobec1 ENSMUSG00000040613	0.1457237	0.8204325
Pdzd11 ENSMUSG00000015668	-0.0824195	0.8204325
Zfp110 ENSMUSG00000058638	-0.1034847	0.8204325
Ctnnb1 ENSMUSG00000006932	0.0648519	0.8204325
Dtx3 ENSMUSG00000040415	-0.0794203	0.8204325
Atp5a1 ENSMUSG00000025428	0.0591677	0.8204325
Scamp4 ENSMUSG00000113949	0.4113905	0.8204325
Scamp1 ENSMUSG00000021687	0.1047308	0.8204325
Tmem129 ENSMUSG0000001929	0.0811312	0.8204325
Acvr1b ENSMUSG00000000532	0.0992213	0.8204325
Gm38394 ENSMUSG0000009441	-0.2804639	0.8204325
Mrpl54 ENSMUSG00000034932	0.0856187	0.8204325
Avil ENSMUSG00000025432	0.3484004	0.8204325
Gnai2 ENSMUSG00000032562	0.0591688	0.8204325
Gbp7 ENSMUSG00000040253	0.0668749	0.8204325
Chchd7 ENSMUSG00000042198	-0.1136603	0.8204325
Zrsr2 ENSMUSG00000031370	-0.0681898	0.8204325
Smim1 ENSMUSG00000078350	-0.4744673	0.8204325
Otulinl ENSMUSG00000056069	0.4461655	0.8204325
Rmi2 ENSMUSG00000037991	0.1034742	0.8204325
Rpl22 ENSMUSG00000028936	-0.0918706	0.8204325
Aifm1 ENSMUSG00000036932	-0.0634809	0.8205116
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Cendbp1 ENSMUSG00000023572	-0.0901888	0.8213088
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Ppp1r12c ENSMUSG00000019254	-0.0600088	0.8213088
Timm13 ENSMUSG00000020219	-0.0638079	0.8213088
Dusp16 ENSMUSG00000030203	0.0946262	0.8213088
Tjap1 ENSMUSG00000012296	0.0612513	0.8213088
Pdik11 ENSMUSG00000050890	-0.1694237	0.8213088
Dzank1 ENSMUSG00000037259	0.3709318	0.8214425
Slc25a14 ENSMUSG00000031105	-0.1869345	0.8214425
Myl6b ENSMUSG00000039824	0.1202797	0.8216486
Nat8l ENSMUSG00000048142	0.7736834	0.8218915
Gcdh ENSMUSG00000003809	0.0893932	0.8218915
Haus8 ENSMUSG00000035439	-0.1020192	0.8218915
Gm10282 ENSMUSG0000007071	0.0656812	0.8218915
Oplah ENSMUSG00000022562	-0.1562493	0.8218915
Chmp3 ENSMUSG00000053119	0.066443	0.8219378
Naa30 ENSMUSG00000036282	-0.0919761	0.8220119
Hmgn5 ENSMUSG00000031245	-0.1836084	0.8220119
Phf11b ENSMUSG00000091649	0.1496782	0.8220119
Syde2 ENSMUSG00000036863	0.1519038	0.8220119
Pdrg1 ENSMUSG00000027472	0.0719117	0.82206

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Gipc1 ENSMUSG00000019433	-0.0644293	0.8221468
Ubxn1 ENSMUSG00000071655	-0.0659273	0.8221915
Clk3 ENSMUSG00000032316	0.0906044	0.8224021
Serpinf1 ENSMUSG00000000753	0.0595441	0.8227037
Fkbp10 ENSMUSG00000001555	0.0618094	0.8227037
Sfi1 ENSMUSG00000023764	-0.123216	0.8232868
Rps28 ENSMUSG00000067288	-0.1653198	0.8232868
Prep ENSMUSG00000019849	0.062483	0.8232868
Pla2g12a ENSMUSG00000027995	0.0780642	0.8232868
Trpc1 ENSMUSG00000032839	-0.237762	0.8233509
Knl1 ENSMUSG00000027326	-0.1622219	0.8233509
Cdk5 ENSMUSG00000028969	0.0770701	0.8233509
Cfap298 ENSMUSG00000022972	-0.1236081	0.8233509
Ras11a ENSMUSG00000029641	0.1179856	0.8233555
Rtn4r12 ENSMUSG00000050896	0.1129142	0.8233555
Scaper ENSMUSG00000034007	-0.4199693	0.8233555
Wrap73 ENSMUSG00000029029	-0.0997455	0.8233555
Cmc4 ENSMUSG00000090110	0.2906587	0.8233555
Clp1 ENSMUSG00000027079	0.0855744	0.8233555
4930415O20Rik ENSMUSG00000000000	-0.5792409	0.8233555
Gm28710 ENSMUSG00000010990	-0.7493474	0.8233555
R3hdm2 ENSMUSG00000025404	0.0620353	0.8233555
Dkc1 ENSMUSG00000031403	-0.0632482	0.8233555
Mesd ENSMUSG00000038503	-0.0925466	0.8233555
Actg2 ENSMUSG00000059430	0.207315	0.8233555
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Bmyc ENSMUSG00000049086	0.2523843	0.8237985
Eif4e2 ENSMUSG00000026254	0.0608449	0.8238907
Tbc1d19 ENSMUSG00000039178	-0.1321673	0.8238907
Prpf38a ENSMUSG00000063800	-0.0891049	0.8238907
Akr1b8 ENSMUSG00000029762	-0.0702728	0.8238907
Cklf ENSMUSG00000054400	-0.1304826	0.8238907
Grb14 ENSMUSG00000026888	0.1203503	0.8238907
Tlcd2 ENSMUSG00000038217	-0.4922626	0.8239038
Mtg2 ENSMUSG00000039069	0.104557	0.8240135
Nup35 ENSMUSG00000026999	-0.0759092	0.8240135
Ccdc17 ENSMUSG00000034035	0.407917	0.8241285
Apobr ENSMUSG00000042759	-0.1030952	0.8241285
Washc4 ENSMUSG00000034560	0.1300326	0.8243309
Ankrd26 ENSMUSG00000007827	0.1966084	0.8246764
Trim7 ENSMUSG00000040350	-0.3573626	0.8246764
Adam4 ENSMUSG00000072972	-0.6907886	0.8252147
Nf1 ENSMUSG00000020716	-0.104179	0.8253546
Galnt15 ENSMUSG00000021903	0.5852362	0.8254698
Sqle ENSMUSG00000022351	0.0592006	0.8254698
Kctd5 ENSMUSG00000016946	-0.0615253	0.8254698
Ntan1 ENSMUSG00000022681	-0.0827115	0.8254698
Acbd6 ENSMUSG00000033701	0.0653252	0.8254698
Gata3 ENSMUSG00000015619	0.4304528	0.8254698
Ppp2r5d ENSMUSG00000059409	0.0627699	0.8256071
Gm5741 ENSMUSG00000095845	0.5199933	0.8256071
Pcnx ENSMUSG00000021140	0.102573	0.8256084



Cytip ENSMUSG00000026832	0.1790824	0.8275856
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She ENSMUSG00000046280	0.3178799	0.8276095
Poll ENSMUSG00000025218	0.0722366	0.8276095
Crip1 ENSMUSG00000006360	-0.1180645	0.8276095
Lcmt2 ENSMUSG00000074890	-0.12424	0.8276095
Commd2 ENSMUSG00000036513	0.0695404	0.8276095
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Ndufa1 ENSMUSG00000016427	-0.1398669	0.8278221
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Ier5l ENSMUSG00000089762	-0.0599347	0.8278901
Adam19 ENSMUSG00000011256	-0.2153887	0.8278901
Dhx35 ENSMUSG00000027655	0.0881876	0.8278901
Foxf2 ENSMUSG00000038402	0.303054	0.8278901
Wdr73 ENSMUSG00000025722	-0.0842722	0.8278901
Cenpt ENSMUSG00000036672	-0.0703218	0.8278901
Slc16a10 ENSMUSG00000019838	0.1233534	0.8282171
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Gtf2e1 ENSMUSG00000022828	-0.0789696	0.8285725
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Yipf2 ENSMUSG00000032182	-0.1370828	0.8291044
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Btbd10 ENSMUSG00000038187	-0.1066011	0.8291044
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Adm ENSMUSG00000030790	0.1179431	0.8295207
Stau2 ENSMUSG00000025920	-0.2239094	0.8295207
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Wdr41 ENSMUSG00000042015	0.0829754	0.8298091
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Efnb3 ENSMUSG00000003934	0.1441575	0.8298638
Sfxn2 ENSMUSG00000025036	0.0602419	0.8298638
Ldah ENSMUSG00000037669	-0.0782541	0.8299074
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Heca ENSMUSG00000039879	-0.1080483	0.8299074



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Hist1h4a ENSMUSG00000060093	0.4460287	0.8299074
Riox2 ENSMUSG00000022724	0.0942672	0.8300052
Srr ENSMUSG00000001323	-0.1617982	0.8301896
Tmem205 ENSMUSG0000004088	-0.1702644	0.8302072
Sspl2b ENSMUSG00000035206	-0.0639297	0.8302072
Kif7 ENSMUSG00000050382	-0.0962941	0.8302072
Il20rb ENSMUSG00000044244	0.2187136	0.8304682
Cby1 ENSMUSG00000022428	-0.092145	0.8304682
H2-Q7 ENSMUSG00000060550	0.1708804	0.8304682
Mul1 ENSMUSG00000041241	0.0699898	0.8304682
Acot8 ENSMUSG00000017307	-0.0997734	0.8304682
Esx1 ENSMUSG00000023443	-0.371306	0.8304682
Epb4114a ENSMUSG00000024370	0.2157617	0.8304682
Dguok ENSMUSG00000014554	0.0911268	0.8304682
Fadd ENSMUSG00000031077	0.1152603	0.8304682
Arhgap35 ENSMUSG0000005823	0.0602539	0.8305941
Hars ENSMUSG00000001380	-0.060376	0.8307374
Melk ENSMUSG00000035683	-0.062961	0.8307374
B3gnt8 ENSMUSG00000059479	0.3260263	0.8307374
Alyref ENSMUSG00000025134	-0.0621539	0.8307374
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Scn1b ENSMUSG00000019194	-0.231149	0.8310238
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Wdhd1 ENSMUSG00000037572	-0.0645895	0.8310238
Mrps2 ENSMUSG00000035772	0.0765557	0.8310238
Cdk9 ENSMUSG00000009555	-0.0607154	0.8310238
Foxo6 ENSMUSG00000052135	-0.3754031	0.8310238
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Hexb ENSMUSG00000021665	0.0771139	0.8310238
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Cry1 ENSMUSG00000020038	0.0843423	0.8312938

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Pola2 ENSMUSG00000024833	0.0648446	0.8324444
Dlc1 ENSMUSG00000031523	-0.069166	0.8324518
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Kans1 ENSMUSG00000018412	0.0765795	0.8325027
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Fndc7 ENSMUSG00000045326	0.3155485	0.833362
Fam168b ENSMUSG00000037503	0.0618298	0.833362
Lmo2 ENSMUSG00000032698	0.2416809	0.8334978
Znrf3 ENSMUSG00000041961	-0.1038257	0.8338377
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Spin1 ENSMUSG00000021395	-0.0587406	0.8361272
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Zfp628 ENSMUSG00000074406	0.0965734	0.8364509
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Dnajc17 ENSMUSG00000034278	-0.120021	0.8366916
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Map2k3 ENSMUSG00000018932	0.0584259	0.8366916
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Tstd2 ENSMUSG00000035495	-0.0815093	0.8366916
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Uxs1 ENSMUSG00000057363	-0.0701001	0.8371883
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Fhl2 ENSMUSG00000008136	-0.0635009	0.8374137
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Lig1 ENSMUSG00000056394	0.0611071	0.8385777
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Ube2r2 ENSMUSG00000036241	0.0570072	0.8385777
Trim32 ENSMUSG00000051675	0.069548	0.8386027
Dtnb ENSMUSG00000071454	-0.0913146	0.8388075
Nop14 ENSMUSG00000036693	-0.0590901	0.8390308
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Rps29 ENSMUSG00000034892	-0.1931313	0.8393211
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Rnf225 ENSMUSG00000033967	0.1897036	0.8393211
Fstl3 ENSMUSG00000020325	-0.2886509	0.8393211
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Il17d ENSMUSG00000050222	-0.2313457	0.8393211
Cdc23 ENSMUSG00000024370	0.0659057	0.8393211
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Ube2t ENSMUSG00000026429	0.1184304	0.8397221
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Smim27 ENSMUSG00000028407	-0.3730071	0.8397221
Ankrd54 ENSMUSG00000033055	-0.0639103	0.8400129
Ociad2 ENSMUSG00000029153	-0.1616811	0.8403622
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Bend6 ENSMUSG00000042182	-0.2389471	0.8404517
Rpp30 ENSMUSG00000024800	-0.0924111	0.8404517
Fam234a ENSMUSG00000024187	0.0698575	0.8404517
Sirt2 ENSMUSG00000015149	0.0610975	0.8404517
Gdf11 ENSMUSG00000025352	0.1172637	0.8404517
Ptprcap ENSMUSG00000045826	-0.520457	0.8404517
Ccnl2 ENSMUSG00000029068	-0.057651	0.8404517
Krtcap3 ENSMUSG00000029149	0.2381996	0.8406285
Fam136a ENSMUSG00000057497	-0.0817833	0.8406285
Dusp6 ENSMUSG00000019960	0.0913904	0.8406542
Ptpn9 ENSMUSG00000032290	0.073159	0.8406585
Taf10 ENSMUSG00000043866	0.0700857	0.8407278
Tmem150a ENSMUSG000000559	-0.1204035	0.8407278
Xrcc6 ENSMUSG00000022471	-0.0631536	0.8407278
Rpl37a ENSMUSG00000046330	-0.1171209	0.8407278
Lrrc8e ENSMUSG00000046589	0.1052349	0.8407838
Emsy ENSMUSG00000035401	-0.0981231	0.8407838
Myh7b ENSMUSG00000074652	0.5063951	0.8407838
Eral1 ENSMUSG00000020832	0.0925557	0.840785
Ly6c1 ENSMUSG00000079018	-0.1022681	0.8412997
Hoxb2 ENSMUSG00000075588	0.1452175	0.8413609
Tmprss9 ENSMUSG00000059406	0.5110933	0.8413609
Gm6793 ENSMUSG00000092086	0.2636573	0.8413827
Akap8 ENSMUSG00000024045	-0.0625126	0.841481
Pik3c3 ENSMUSG00000033628	0.0772508	0.841481
Shisa2 ENSMUSG00000044461	0.5395353	0.841481
Atp2a2 ENSMUSG00000029467	0.0629409	0.841481
Ginm1 ENSMUSG00000040006	-0.1349527	0.8415525
Dnaic2 ENSMUSG00000034706	-0.3779166	0.8415525
Ube2d3 ENSMUSG00000078578	-0.0565384	0.8417109
Rcan2 ENSMUSG00000039601	-0.2506422	0.8419015
Pbrm1 ENSMUSG00000042323	-0.0836719	0.8419015
Lrrc28 ENSMUSG00000030556	-0.1321309	0.8419641
Med1 ENSMUSG00000018160	-0.0642293	0.8419641
Med8 ENSMUSG00000006392	-0.0634999	0.8419641
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Atp5k ENSMUSG00000050856	-0.1974503	0.8419641
Tbcd ENSMUSG00000039230	0.0662723	0.8419641
Dkk3 ENSMUSG00000030772	-0.604017	0.8419641
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Sncg ENSMUSG00000023064	-0.5539048	0.8419641
Erc2 ENSMUSG00000030400	-0.0893809	0.8419641
Pgk1 ENSMUSG00000062070	0.0536347	0.8419641
Sap18b ENSMUSG00000061104	0.091011	0.8419641
Ncbp2 ENSMUSG00000022774	-0.0680776	0.8420254
Rnpc3 ENSMUSG00000027981	-0.1519543	0.8420254
Sf3a3 ENSMUSG00000028902	-0.0583275	0.84247
Echdc3 ENSMUSG00000039063	0.1398453	0.8425141
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Mss51 ENSMUSG00000021815	0.249841	0.8425866
Lif ENSMUSG00000034394	0.1072447	0.8425866
Plce1 ENSMUSG00000024998	-0.3687993	0.8425866
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Pycr1 ENSMUSG00000025140	0.0741987	0.8429755
Las1 ENSMUSG00000057421	-0.0698582	0.8429755
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Mrpl49 ENSMUSG00000007338	-0.0644873	0.8429755
Itprpl1 ENSMUSG00000074825	-0.0766795	0.8429755
Tcf7l2 ENSMUSG00000024985	-0.0930414	0.8429755
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B3gnt3 ENSMUSG00000031803	-0.7163705	0.8429755
Anxa11 ENSMUSG00000021866	0.0840179	0.8429755
Pde8a ENSMUSG00000025584	-0.0753325	0.8429755
Uvrag ENSMUSG00000035354	0.0785961	0.8429755
Ndfip1 ENSMUSG00000024425	0.058678	0.8433753
Myo1e ENSMUSG00000032220	0.0765045	0.8433753
Phyhip ENSMUSG00000003469	-0.1517186	0.8433753
Nle1 ENSMUSG00000020692	0.0631235	0.8433753
Edf1 ENSMUSG00000015092	0.0627976	0.8433753
Comp ENSMUSG00000031849	0.6573553	0.8433753
Slc12a9 ENSMUSG00000037344	-0.0919945	0.8433753
Polr2c ENSMUSG00000031783	-0.0595588	0.8433753
Zdhhc5 ENSMUSG00000034075	0.0612151	0.8433753
Upp1 ENSMUSG00000020407	0.2048152	0.8434348
Leprot ENSMUSG00000035212	-0.0591837	0.8434616
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Lrp11 ENSMUSG00000019796	-0.1678116	0.8440562
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Prodh ENSMUSG00000003526	-0.1294477	0.8440996
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Coa3 ENSMUSG00000017188	-0.0851559	0.8444042
Phlda3 ENSMUSG00000041801	-0.0644431	0.8444332
Gstp1 ENSMUSG00000060803	0.0628045	0.8444332
Rplp1 ENSMUSG00000007892	-0.0818505	0.8444332
Chchd5 ENSMUSG00000037938	0.0992094	0.8446057
Itpkb ENSMUSG00000038855	0.0787989	0.8446057
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Nck1 ENSMUSG00000032475	-0.1105219	0.8448369
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Lyrn1 ENSMUSG00000030922	-0.3403144	0.8448651
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Birc6 ENSMUSG00000024073	-0.073986	0.8449951
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Lmo4 ENSMUSG00000028266	0.0563512	0.8453729
Tvp23b ENSMUSG00000014177	0.0891478	0.8457453
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Slc35e2 ENSMUSG00000042202	0.0851808	0.8457765
Pla2g15 ENSMUSG00000031903	-0.0718857	0.8461045
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Tyw5 ENSMUSG00000048495	-0.1467185	0.8467441
Hbp1 ENSMUSG00000002996	0.1154845	0.8467441
Ccdc88a ENSMUSG00000032740	-0.1779634	0.8467441
Smim12 ENSMUSG00000042380	-0.0805331	0.8467441
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Zc3hc1 ENSMUSG00000039130	-0.0629253	0.8467441
Ptgs1 ENSMUSG00000047250	-0.0593288	0.8467441
Ripor1 ENSMUSG00000038604	0.0624861	0.8470104
Lrp12 ENSMUSG00000022305	0.0882929	0.8470104
Pecr ENSMUSG00000026189	0.1104556	0.8470104
Bscl2 ENSMUSG00000071657	-0.1300577	0.8470188
Adam1a ENSMUSG00000072647	-0.2234385	0.8470188
Amigo1 ENSMUSG00000050947	0.1322357	0.8470188
Mapk3 ENSMUSG00000063065	-0.060031	0.8470188
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Setx ENSMUSG00000043535	-0.0882403	0.847435
Paqr4 ENSMUSG00000023909	0.099656	0.847435
Dnajc12 ENSMUSG00000036764	0.1574604	0.847435
Map1s ENSMUSG00000019261	0.0560652	0.847435
Acox1 ENSMUSG00000020777	0.0635364	0.847435
Vps18 ENSMUSG00000034216	0.0616768	0.847435
Prss56 ENSMUSG00000036480	-0.401	0.847435
Dand5 ENSMUSG00000053226	0.1641567	0.847435
Ptgs2 ENSMUSG00000032487	-0.1099475	0.847435
Usp54 ENSMUSG00000034235	0.1124656	0.847435
Pcdhb17 ENSMUSG00000046387	-0.2261851	0.847435
Fgl2 ENSMUSG00000039899	-0.402553	0.847435
Cisd2 ENSMUSG00000028165	-0.0565929	0.847435
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Galt ENSMUSG00000036073	-0.1458472	0.8488862
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Ank1 ENSMUSG00000031543	-0.1080075	0.8488862
Smyd4 ENSMUSG00000018809	0.1094915	0.8488862
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Sncap ENSMUSG00000024534	0.4431454	0.8494362
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Irak1 ENSMUSG00000031392	0.0563894	0.8494362
Pex14 ENSMUSG00000028975	0.072809	0.8494362
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Med20 ENSMUSG00000092558	0.0673239	0.8494362
Meiob ENSMUSG00000024155	0.2747308	0.849518
Etv3 ENSMUSG00000003382	0.0801948	0.849518
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Tprkb ENSMUSG00000054226	0.0643208	0.849518
Fetub ENSMUSG00000022871	-0.2068809	0.849518
Dnal4 ENSMUSG00000022420	0.0724872	0.849518
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Fblim1 ENSMUSG00000006219	0.0641724	0.849518
Zfp318 ENSMUSG00000015597	-0.0983327	0.849518
Cdk10 ENSMUSG00000033862	-0.0744276	0.849518
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Adprm ENSMUSG00000020910	0.159824	0.8497153
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Evl ENSMUSG00000021262	0.055415	0.8497153
Gpc6 ENSMUSG00000058571	0.1158781	0.8497153
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Cryba4 ENSMUSG00000066975	-0.6578727	0.8497153
Sh3rf1 ENSMUSG00000031642	0.0912237	0.8497153
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Sbds ENSMUSG00000025337	-0.0652025	0.8501921
Spg20 ENSMUSG00000036580	0.0560561	0.8501921
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Tmem209 ENSMUSG0000002978	-0.0699307	0.8504151
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Ccnf ENSMUSG00000072082	0.0547177	0.851037
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Tsnaxip1 ENSMUSG00000031892	0.4310835	0.8513613
Bst2 ENSMUSG00000046718	0.0544459	0.8514651
Ndufaf8 ENSMUSG00000078572	-0.1002167	0.8514651
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Phc3 ENSMUSG00000037652	-0.1070546	0.8516058
Tulp3 ENSMUSG00000001521	0.0568384	0.8516323
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Hilpda ENSMUSG00000043421	0.0805867	0.8516368
Tifa ENSMUSG00000046688	0.14162	0.8517941
Dhrs11 ENSMUSG00000034449	-0.1178458	0.8524035
Rpl12 ENSMUSG00000038900	-0.0731129	0.8524035
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Smim4 ENSMUSG00000058351	-0.1606453	0.8526107
Ifitm5 ENSMUSG00000025489	0.2977119	0.8526329
Milt10 ENSMUSG00000026743	0.0643369	0.8526329
Eapp ENSMUSG00000054302	-0.0839162	0.8529125
Sema4d ENSMUSG00000021451	0.2197021	0.8529125
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Gpr135 ENSMUSG00000043398	-0.39221	0.8536827
Mblac2 ENSMUSG00000051098	0.3689155	0.8538654
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Rasa4 ENSMUSG00000004952	0.0664148	0.8540731
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Cdk2 ENSMUSG00000025358	0.0583724	0.8546215
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Phf11c ENSMUSG00000091144	-0.3236927	0.855914
Cbfb ENSMUSG00000031885	-0.0609248	0.855914
Rbbp9 ENSMUSG00000027428	0.0869391	0.8561141
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Katnb1 ENSMUSG00000027132	-0.0886797	0.8563339
Rbms3 ENSMUSG00000039607	-0.1396001	0.8563339
Lrrc57 ENSMUSG00000027286	-0.124363	0.8563339
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Ly6g5b ENSMUSG00000043807	0.3077497	0.8566537
Zfand1 ENSMUSG00000039795	0.1524183	0.8566537
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Dip2a ENSMUSG00000020231	0.071279	0.8566537
Ipp ENSMUSG00000028696	0.1951729	0.8566537
Zic4 ENSMUSG00000036972	0.1432603	0.8566537

Prdm4 ENSMUSG00000035529	0.0669186	0.8566537
Pip4k2b ENSMUSG00000018547	0.0536769	0.8566537
Efna1 ENSMUSG00000027954	-0.074726	0.8566537
Med26 ENSMUSG00000045248	0.0891507	0.8566537
Hdac3 ENSMUSG00000024454	0.0545538	0.8566537
Rab5c ENSMUSG00000019173	0.053484	0.8566537
Cpsf3 ENSMUSG00000054309	0.0558062	0.8569419
Elov15 ENSMUSG00000032349	0.0551831	0.8569419
Ttc28 ENSMUSG00000033209	-0.0760624	0.8573617
Oaz1 ENSMUSG00000035242	0.0517464	0.8573617
Hgh1 ENSMUSG00000022554	0.0648369	0.8578326
Cct3 ENSMUSG00000001416	0.0503689	0.8581661
Zfp287 ENSMUSG00000005267	-0.1798792	0.8581661
Clmn ENSMUSG00000021097	0.2550819	0.8581661
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Ntng2 ENSMUSG00000035513	-0.6488843	0.8581661
Pard6g ENSMUSG00000056214	-0.1141891	0.8581661
Prmt5 ENSMUSG00000023110	0.0546396	0.8582649
BC025446 ENSMUSG000000477	0.6000042	0.8582649
Vcpkmt ENSMUSG00000049882	-0.0829758	0.8582649
Uqcc2 ENSMUSG00000024208	-0.0800086	0.8584064
Cercam ENSMUSG00000039787	-0.1937884	0.8584341
Rnf38 ENSMUSG00000035696	-0.0816719	0.8584341
Dopey2 ENSMUSG00000022946	0.1014925	0.8584341
Dnase111 ENSMUSG00000019088	0.1007567	0.8589181
Capn15 ENSMUSG00000037326	0.0596764	0.8589181
Fzd3 ENSMUSG00000007989	-0.1884761	0.8590145
Stub1 ENSMUSG00000039615	0.0576128	0.859136
Grin2d ENSMUSG00000002771	0.1202576	0.859136
Flnc ENSMUSG00000068699	-0.051844	0.8593537
Kif1bp ENSMUSG00000036955	0.0660291	0.8596167
Ndc1 ENSMUSG00000028614	-0.0570063	0.8596167
Commd3 ENSMUSG00000051154	-0.0811129	0.8596167
Klhdc1 ENSMUSG00000051890	-0.1956661	0.8596167
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Hcn3 ENSMUSG00000028051	-0.2003317	0.8597636
Sparcl1 ENSMUSG00000029309	0.3255745	0.8597636
Gtf2b ENSMUSG00000028271	-0.0697956	0.8597636
Begain ENSMUSG00000040867	0.1805216	0.8597636
Polr1c ENSMUSG00000067148	0.0512633	0.8597636
Slfn9 ENSMUSG00000069793	0.0655988	0.8597636
Cenpn ENSMUSG00000031756	-0.0751879	0.8597636
Mecp2 ENSMUSG00000031393	0.0621897	0.8597636
Cradd ENSMUSG00000045867	-0.1798418	0.8597636
S100a13 ENSMUSG00000042312	-0.0927795	0.8597696
Rab11fip2 ENSMUSG0000004002	-0.1511202	0.8598221
Ndufaf2 ENSMUSG00000068184	-0.1098713	0.8598221
Ubac2 ENSMUSG00000041765	0.0666543	0.8602138
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Tbc1d9 ENSMUSG00000031709	0.1126652	0.8607393
Adat1 ENSMUSG00000031949	-0.0770292	0.8607393
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Pex6 ENSMUSG00000002763	0.0514935	0.8611391
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Rhbd1 ENSMUSG00000025735	-0.199868	0.8613717
Yif1a ENSMUSG00000024875	0.0608573	0.8613717
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Fam118b ENSMUSG00000050471	-0.0823978	0.8613717
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Cog1 ENSMUSG00000018661	-0.0660607	0.8617559
Armh3 ENSMUSG00000039901	0.0670366	0.8617559
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Ostc ENSMUSG00000041084	-0.0596311	0.8617559
Bmt2 ENSMUSG00000042742	-0.1124037	0.8618107
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Coil ENSMUSG00000033983	0.0831021	0.8621095
Pacsin2 ENSMUSG00000016664	-0.0524399	0.8622191
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Wdr1 ENSMUSG00000005103	0.0510748	0.8622859
Tjp1 ENSMUSG00000030516	0.0700404	0.862702
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Spsb2 ENSMUSG00000038451	-0.1008783	0.8632581
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Skap2 ENSMUSG00000059182	-0.0806138	0.8632581
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Mark2 ENSMUSG00000024969	0.0521984	0.8632581
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Golt1b ENSMUSG00000030245	-0.059545	0.8632581
Abcb8 ENSMUSG00000028973	-0.0663438	0.8632581
Capzb ENSMUSG00000028745	0.0532342	0.8632581
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Asb4 ENSMUSG00000042607	0.1883452	0.8635747
Supt7l ENSMUSG00000053134	-0.0740197	0.8635925
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Nek4 ENSMUSG00000021918	-0.0845624	0.8637274
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Pan2 ENSMUSG00000005682	0.0579896	0.8637408
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Suv39h2 ENSMUSG00000026646	-0.0746771	0.863784
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Mtfr2 ENSMUSG00000019992	0.1002133	0.8638186
Chchd3 ENSMUSG00000053768	0.0606991	0.8638186
Blmh ENSMUSG00000020840	-0.0556049	0.8638186
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Flywch1 ENSMUSG00000040097	0.067029	0.864029
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Zmym4 ENSMUSG00000042446	-0.1058697	0.864029
Zmat5 ENSMUSG00000009076	-0.117069	0.864029
Uty ENSMUSG00000068457	0.1803642	0.864029
Nmt1 ENSMUSG00000020936	0.0523165	0.864029
Bmp8b ENSMUSG00000002384	0.540874	0.864029
Kdm6b ENSMUSG00000018476	0.0627307	0.864029
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Kazald1 ENSMUSG00000025213	-0.0864456	0.8644923
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Polk ENSMUSG00000021668	-0.1783072	0.8644923
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Rasa3 ENSMUSG00000031453	0.0563615	0.8644923
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Utp3 ENSMUSG00000070697	-0.0612628	0.8645428
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Wdr4 ENSMUSG00000024037	0.0540307	0.8654799
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Rmi1 ENSMUSG00000035367	-0.1053731	0.8654799
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Stag2 ENSMUSG00000025862	-0.0975534	0.865818
Lsm1 ENSMUSG00000037296	0.0583591	0.8659209
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Drg2 ENSMUSG00000020537	-0.0545036	0.8660405
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Kbtbd2 ENSMUSG00000059486	-0.0677036	0.8669892
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Ctu1 ENSMUSG00000038888	0.0753386	0.8673798
Sema4b ENSMUSG00000030539	-0.0868741	0.8673798
Mrpl36 ENSMUSG00000021607	-0.0958902	0.8675798
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Zfp786 ENSMUSG00000051499	-0.2457169	0.8679275
Tm2d2 ENSMUSG00000031556	-0.0681706	0.8679275
Msx1 ENSMUSG00000048450	0.3684051	0.8679275
Pigh ENSMUSG00000021120	0.2587792	0.8679275
Twsg1 ENSMUSG00000024098	-0.0592483	0.8679275
Glrbl ENSMUSG00000028020	-0.3330266	0.8679275
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Dis3l2 ENSMUSG00000053333	-0.1169496	0.8679275
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Snf8 ENSMUSG00000006058	-0.0620032	0.8681193
Tchp ENSMUSG00000002486	-0.0961106	0.8681506
Crat ENSMUSG00000026853	0.0689525	0.868542
Ppard ENSMUSG00000002250	0.0513305	0.8687721
Pde12 ENSMUSG00000043702	-0.0654412	0.8687721
P3h2 ENSMUSG00000038168	0.1218661	0.8688027
Exosc3 ENSMUSG00000028322	-0.0576062	0.8688027
Cpsf2 ENSMUSG00000041781	0.0542399	0.8688027
Ddost ENSMUSG00000028757	0.0496739	0.8688027
Arcp4 ENSMUSG00000079426	0.0524817	0.8688027
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Ccl20 ENSMUSG00000026166	0.1664121	0.8688027
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Rapgef1 ENSMUSG00000038020	-0.1771801	0.8688027
Trappc8 ENSMUSG00000033382	-0.0933213	0.8688027

Mmp25 ENSMUSG00000023903	0.2356036	0.8688522
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Vrk3 ENSMUSG00000002205	-0.0718492	0.8690932
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Kcnab2 ENSMUSG00000028931	0.1024066	0.8692254
Npm2 ENSMUSG00000047911	-0.4412511	0.8692928
Rab35 ENSMUSG00000029518	-0.0506637	0.8692928
Ttbk2 ENSMUSG00000090100	-0.1140921	0.8692928
Bicd12 ENSMUSG00000043782	-0.3112649	0.8696185
Spns2 ENSMUSG00000040447	0.2314257	0.8696185
Vcp ENSMUSG00000028452	0.0498423	0.8696185
Nde1 ENSMUSG00000022678	0.0506837	0.8696185
Rprm ENSMUSG00000075334	0.3183841	0.8696185
Calr3 ENSMUSG00000019732	-0.2069354	0.8696185
Mrpl57 ENSMUSG00000021967	0.0565881	0.8698123
Ints14 ENSMUSG00000034263	0.0587749	0.8698123
Dgcr2 ENSMUSG00000003166	0.0489716	0.8698123
Arl5c ENSMUSG00000038352	-0.5598976	0.8698787
Ccdc167 ENSMUSG00000024018	0.1502979	0.8698787
Lhb ENSMUSG00000100916	-0.5590113	0.8698787
Rnf220 ENSMUSG00000028677	0.048756	0.8698787
Cfap20 ENSMUSG00000031796	0.0535499	0.8698787
Gm17018 ENSMUSG0000004103	0.0625533	0.8698787
Dpp8 ENSMUSG00000032393	-0.0711635	0.8698787
Tbc1d22a ENSMUSG0000005186	0.0707376	0.8698787
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Fnip2 ENSMUSG00000061175	0.0729022	0.8698787
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Hus1 ENSMUSG00000020413	-0.0855113	0.8698787
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Rcbtb2 ENSMUSG00000022106	-0.0810234	0.8699377
Mpp7 ENSMUSG00000057440	-0.2080229	0.8700302
Gripap1 ENSMUSG00000031153	-0.0601977	0.8700302
Cyp2s1 ENSMUSG00000040703	0.3106869	0.870042
Akt2 ENSMUSG00000004056	0.0494007	0.8702597
Tnfsf18 ENSMUSG00000066755	0.248402	0.8704515
Zfp445 ENSMUSG00000047036	-0.0903376	0.8704515
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Zbed3 ENSMUSG00000041995	-0.0651756	0.8704515
Plrg1 ENSMUSG00000027998	-0.0581426	0.8704515
Prr22 ENSMUSG00000090273	-0.1779844	0.8704515
Anks1b ENSMUSG00000058589	-0.3441553	0.8704515
Rufy4 ENSMUSG00000061815	-0.3719407	0.8704515
Syt7 ENSMUSG00000024743	0.1185941	0.8704515
Ovol1 ENSMUSG00000024922	0.4036966	0.8704515
Ldlrap1 ENSMUSG00000037295	0.0592783	0.8704515
Prim2 ENSMUSG00000026134	-0.0598233	0.8704515
Tmem143 ENSMUSG0000000278	0.1492265	0.8704515
Lrrc15 ENSMUSG00000052316	-0.0646892	0.8704515
Mlycd ENSMUSG00000074064	-0.1002472	0.8704515
3110082I17Rik ENSMUSG00000000000	-0.0687308	0.8704515



Tnfrsf1a ENSMUSG00000030341	0.0497817	0.8704515
Rock2 ENSMUSG00000020580	-0.096979	0.8704515
Gba2 ENSMUSG00000028467	0.0984586	0.8704515
Rad54l ENSMUSG00000028702	-0.0595492	0.8704515
Cd9 ENSMUSG00000030342	-0.0521179	0.8705634
Lamtor3 ENSMUSG00000091512	-0.0551944	0.8705634
Diaph1 ENSMUSG00000024456	0.0517055	0.8705634
Liph ENSMUSG00000044626	-0.5627957	0.8705634
Tada2b ENSMUSG00000029196	0.0730727	0.8705634
Hebp1 ENSMUSG00000042770	0.1522763	0.8705634
Zfp791 ENSMUSG00000074194	0.2955799	0.8705634
Aamdc ENSMUSG00000035642	0.1377138	0.8706213
Noct ENSMUSG00000023087	-0.050589	0.8706213
Utp15 ENSMUSG00000041747	-0.0618078	0.8706213
Rbmx11 ENSMUSG00000037070	0.0535521	0.8706213
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Sike1 ENSMUSG00000027854	0.0618039	0.8706213
Insig2 ENSMUSG00000003721	0.0670036	0.8706213
Mrm3 ENSMUSG00000038046	-0.0798943	0.8706213
Dysf ENSMUSG00000033788	0.0621785	0.8706213
Tmem86a ENSMUSG0000001030	0.1316525	0.8706213
Strap ENSMUSG00000030224	-0.0485709	0.8711568
Nvl ENSMUSG00000026516	-0.0521341	0.8712747
Senp8 ENSMUSG00000051705	-0.1591312	0.8712747
Mpdz ENSMUSG00000028402	-0.0616336	0.8712747
Vcl ENSMUSG00000021823	0.056529	0.8712747
Sall2 ENSMUSG00000049532	-0.067633	0.8712747
Zmat3 ENSMUSG00000027663	-0.0751687	0.8712747
Dmwd ENSMUSG00000030410	0.051669	0.8712747
Plekha7 ENSMUSG00000045659	0.5019298	0.8713901
Dpysl3 ENSMUSG00000024501	0.0502778	0.8716063
Cfap126 ENSMUSG00000026649	0.4414921	0.8718126
Fbxw4 ENSMUSG00000040913	0.0720096	0.8718126
Plin4 ENSMUSG00000002831	0.1615237	0.8718126
Thumpd2 ENSMUSG0000002424	0.1499477	0.8718126
Polr2d ENSMUSG00000024258	-0.0547954	0.8718126
Scfd2 ENSMUSG00000062110	-0.1156626	0.8718126
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Pla2g16 ENSMUSG00000060675	0.0827153	0.8718126
Rhot2 ENSMUSG00000025733	0.0618206	0.8718126
Degs1 ENSMUSG00000038633	0.052396	0.8721682
Plod2 ENSMUSG00000032374	-0.0607224	0.8722018
Eif2b4 ENSMUSG00000029145	-0.0613174	0.8722018
Khdc4 ENSMUSG00000028060	0.0504077	0.8722018
Poglut1 ENSMUSG00000034064	-0.0613183	0.8723346
Mical1 ENSMUSG00000019823	-0.0656116	0.8724125
Hnrnpd ENSMUSG00000000568	0.0477733	0.8724571
Lrp5 ENSMUSG00000024913	0.0508408	0.8725654
Wdr89 ENSMUSG00000045690	-0.0733897	0.8725654
Styx ENSMUSG00000053205	0.1740741	0.8725989
Col8a2 ENSMUSG00000056174	-0.0749096	0.872604
Zfp991 ENSMUSG00000067916	-0.26524	0.872604
Pld3 ENSMUSG00000003363	0.0606028	0.872631

Zfp28 ENSMUSG00000062861	-0.1244092	0.872631
Bco2 ENSMUSG00000032066	0.4971366	0.872631
Mrps17 ENSMUSG00000034211	-0.0572797	0.872631
Wdr48 ENSMUSG00000032512	0.056682	0.872631
Synj1 ENSMUSG00000022973	-0.0868856	0.8730523
Gpsm3 ENSMUSG00000034786	-0.1946998	0.8733956
Asb1 ENSMUSG00000026311	0.1084987	0.8733956
Oxa11 ENSMUSG00000000959	0.0556052	0.8733956
Zfp13 ENSMUSG00000062012	0.0901729	0.8733956
Parp1 ENSMUSG00000026496	0.0510023	0.8734911
Mylip ENSMUSG00000038175	0.0579276	0.8735677
Fgf7 ENSMUSG00000027208	-0.1078045	0.8736563
Hat1 ENSMUSG00000027018	-0.049966	0.8737963
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Erap1 ENSMUSG00000021583	-0.0828726	0.8739337
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Cul7 ENSMUSG00000038545	0.0498928	0.8741187
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Vim ENSMUSG00000026728	0.0464198	0.8741187
Zkscan14 ENSMUSG00000029627	0.1292504	0.8741187
Nrg1 ENSMUSG00000062991	0.1148375	0.8741187
Cr11 ENSMUSG00000016481	-0.0865586	0.8744351
Eef1akmt4 ENSMUSG0000001152	0.0941026	0.8745293
Smim7 ENSMUSG00000044600	-0.0509971	0.8746595
Ppcs ENSMUSG00000028636	0.0944923	0.8747058
Ubtfl ENSMUSG00000020923	-0.0479498	0.874785
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Col6a2 ENSMUSG00000020241	0.0465227	0.874785
Itgb1bp1 ENSMUSG00000062352	0.0766048	0.8751643
Disp1 ENSMUSG00000030768	0.0787964	0.8751643
Armex2 ENSMUSG00000033436	0.0513651	0.8751643
Sertad4 ENSMUSG00000016262	0.0642924	0.8751643
Pax5 ENSMUSG00000014030	-0.4422854	0.8751643
Rps15 ENSMUSG00000063457	-0.0693708	0.8751643
Phb2 ENSMUSG00000004264	0.047231	0.8751643

Chp1 ENSMUSG00000014077	0.0504365	0.8751643
Dlk2 ENSMUSG00000047428	-0.0844594	0.8751643
Eif1 ENSMUSG00000035530	0.0486115	0.8751643
Adipor1 ENSMUSG00000026457	0.0513416	0.8751848
Shox2 ENSMUSG00000027833	-0.0561143	0.8751848
Ppp2r1b ENSMUSG00000032058	0.0598333	0.8751848
Gm12216 ENSMUSG0000008176	0.2509032	0.8751851
Cdca2 ENSMUSG00000048922	-0.0583392	0.8751851
Eef1e1 ENSMUSG00000001707	-0.0539168	0.8751989
Enkd1 ENSMUSG00000013155	-0.0567449	0.8752814
Med14 ENSMUSG00000064127	-0.0677986	0.8752935
Nrgn ENSMUSG00000053310	-0.2272072	0.875426
Anks6 ENSMUSG00000066191	0.0964492	0.875426
Nrep ENSMUSG00000042834	0.1191214	0.8754406
Socs6 ENSMUSG00000056153	0.0771336	0.875486
Ankle2 ENSMUSG00000029501	0.0592547	0.8756841
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Mcrs1 ENSMUSG00000037570	-0.0499621	0.8756847
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Pex7 ENSMUSG00000020003	-0.1049246	0.8756847
Espn ENSMUSG00000028943	0.2881286	0.8756847
Uba52 ENSMUSG00000090137	-0.0634905	0.875889
Elmod3 ENSMUSG00000056698	-0.0997877	0.8760448
Stag3 ENSMUSG00000036928	-0.1731247	0.8762116
Rpgrip1 ENSMUSG00000033282	-0.137595	0.8762116
Eef1g ENSMUSG00000071644	0.0478579	0.8762116
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Dact3 ENSMUSG00000078794	0.0673379	0.8762116
Agap2 ENSMUSG00000025422	0.2310101	0.8762116
Plcd4 ENSMUSG00000026173	-0.4221059	0.8762116
Rgs11 ENSMUSG00000024186	-0.2852765	0.8762116
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Snx18 ENSMUSG00000042364	-0.0514786	0.8764152
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Clec2 ENSMUSG00000079598	-0.3493387	0.8764152
Aup1 ENSMUSG00000068328	0.0524494	0.8764544
Hmbox1 ENSMUSG00000021972	0.085502	0.8764544
Ogg1 ENSMUSG00000030271	-0.0785245	0.8765653
Axin2 ENSMUSG00000000142	0.3573811	0.8765653
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Paqr7 ENSMUSG00000037348	-0.0980126	0.8776502
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C1qtnf4 ENSMUSG00000040794	-0.4216005	0.8778098
Smg8 ENSMUSG00000020495	0.0637724	0.8779902
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Igdcc4 ENSMUSG00000032816	-0.2518719	0.8781454
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Ypel1 ENSMUSG00000022773	-0.1690017	0.878304
Slc5a3 ENSMUSG00000089774	-0.1249457	0.878304
Katnal1 ENSMUSG00000041298	0.1030656	0.878304
Ccdc194 ENSMUSG00000108900	-0.5223915	0.878304
Add1 ENSMUSG00000029106	0.0473929	0.8783724
Sema7a ENSMUSG00000038264	-0.0893246	0.8786473

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Immp11 ENSMUSG00000042670	-0.0919846	0.8793467
Tm9sf3 ENSMUSG00000025016	-0.050905	0.8793467
Ipo4 ENSMUSG00000002319	0.0487712	0.8793862
Rtkn2 ENSMUSG00000037846	-0.126384	0.8793862
Mrpl15 ENSMUSG00000033845	-0.0584781	0.8794219
Scn3a ENSMUSG00000057182	-0.424304	0.8794219
Prdx4 ENSMUSG00000025289	-0.0603399	0.8794219
Med9 ENSMUSG00000061650	0.0585755	0.8794536
Fem1b ENSMUSG00000032244	-0.0507375	0.8795976
Wnk4 ENSMUSG00000035112	-0.1701289	0.8796107
Ttc1 ENSMUSG00000041278	-0.0612981	0.8796107
Raet1e ENSMUSG00000053219	-0.1217196	0.8796107
Syce2 ENSMUSG00000003824	-0.0643243	0.8796107
Adora2b ENSMUSG00000018500	0.1463613	0.8796107
Ankhd1 ENSMUSG00000024483	-0.0867605	0.8796107
Recql5 ENSMUSG00000020752	0.0721319	0.8796107
Ddx58 ENSMUSG00000040296	0.0462299	0.8796107
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Zfp410 ENSMUSG00000042472	-0.0592963	0.8796107
Zfp777 ENSMUSG00000071477	0.0564703	0.8801004
Zkscan17 ENSMUSG00000020473	-0.0556803	0.8802909
Bora ENSMUSG00000022070	-0.0643331	0.8802909
Pfdn6 ENSMUSG00000024309	-0.0530586	0.8802909
Entpd5 ENSMUSG00000021236	0.08023	0.8802909
Golga5 ENSMUSG00000021192	-0.0611134	0.8802909
Sphk1 ENSMUSG00000061878	0.0905485	0.8802909
Efs ENSMUSG00000022203	-0.4209095	0.8802909
Ggt7 ENSMUSG00000027603	0.0877643	0.8802909
Fam117a ENSMUSG00000038893	0.0904461	0.8802909
Cldnd1 ENSMUSG00000022744	0.047827	0.8802909
Taf15 ENSMUSG00000020680	-0.0591845	0.8802909
Mterf3 ENSMUSG00000021519	-0.078378	0.8806319
Rabep2 ENSMUSG00000030727	-0.0544975	0.8807819
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E4f1 ENSMUSG00000024137	0.0578329	0.8810424
Chn1 ENSMUSG00000056486	-0.6071854	0.8816641
Tfeb ENSMUSG00000023990	-0.0935183	0.8816641
Adprhl2 ENSMUSG00000042558	-0.0623039	0.8816641
Phospho1 ENSMUSG0000005086	-0.2195562	0.8816641
Ppif ENSMUSG00000021868	0.0547512	0.8816641
Gnb1 ENSMUSG00000029064	0.046163	0.8816641
Bloc1s4 ENSMUSG00000060708	-0.0686994	0.8816641
Rad50 ENSMUSG00000020380	-0.0765359	0.8816641
Ap1b1 ENSMUSG00000009090	0.0565766	0.8816641
Ebp ENSMUSG00000031168	0.0678918	0.8816641
Net1 ENSMUSG00000021215	0.0520087	0.8816641
Jph4 ENSMUSG00000022208	0.3432093	0.8816641
Foxp1 ENSMUSG00000030067	0.0459099	0.8816641
Zfp365 ENSMUSG00000037855	0.064772	0.8816641
Prpf18 ENSMUSG00000039449	0.0583003	0.8816641
Psmc4 ENSMUSG00000030603	-0.0471737	0.8816641

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Smo ENSMUSG00000001761	-0.0478745	0.8816641
Bcas3 ENSMUSG000000059439	0.0997211	0.8822362
Traf6 ENSMUSG000000027164	-0.0857259	0.8828169
Hapln4 ENSMUSG000000007594	0.1629219	0.8829508
Zbtb43 ENSMUSG000000026788	0.086102	0.8831445
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Mtfr11 ENSMUSG000000046671	0.049616	0.8831636
Gon7 ENSMUSG000000091931	0.1179115	0.8831636
Med7 ENSMUSG000000020397	-0.1391673	0.8831636
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Cds2 ENSMUSG000000058793	0.0556689	0.8831636
Coq3 ENSMUSG000000028247	-0.0749343	0.8831636
Doc2g ENSMUSG000000024871	-0.1976795	0.8831636
Rab26 ENSMUSG000000079657	-0.425305	0.8831636
Rab33b ENSMUSG000000027739	-0.0812588	0.8831636
Ganc ENSMUSG000000062646	-0.1311777	0.8831636
Capn1 ENSMUSG000000024942	0.0476586	0.8831636
Fbxo45 ENSMUSG000000035764	-0.0593709	0.8831761
Gm42517 ENSMUSG00000010586	-0.6004704	0.8831761
Lias ENSMUSG000000029199	0.06395	0.8831761
Eid2b ENSMUSG000000070705	-0.1020499	0.8831761
Myh10 ENSMUSG000000020900	-0.0486891	0.8831761
Casp4 ENSMUSG000000033538	-0.1926842	0.8831914
Mroh1 ENSMUSG000000022558	0.0493336	0.8831914
Mrpl40 ENSMUSG000000022706	-0.0581951	0.8831914
Nxpe4 ENSMUSG000000044229	0.2289363	0.8831914
Gm10036 ENSMUSG00000005806	0.1484785	0.8831914
Zfp971 ENSMUSG000000074519	-0.330256	0.8831914
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Tlr5 ENSMUSG000000079164	0.2700198	0.8831971
Hps3 ENSMUSG000000027615	0.1062511	0.8831971
Hexim2 ENSMUSG000000043372	-0.136967	0.8831971
Arap2 ENSMUSG000000037999	-0.6397123	0.8831971
Alx4 ENSMUSG000000040310	0.2893038	0.8831971
Rab4b ENSMUSG000000053291	-0.4859233	0.8831971
Tmed8 ENSMUSG000000034111	-0.1109698	0.8831971
Mrps34 ENSMUSG000000038880	-0.0613837	0.8831971
Zkscan1 ENSMUSG000000029729	0.0789119	0.8831971
Preli1 ENSMUSG000000021486	0.0445982	0.8831971
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Ptprn ENSMUSG000000026204	-0.1188803	0.8831971
Psca ENSMUSG000000022598	-0.4540725	0.8831971
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Donson ENSMUSG000000022960	0.0707784	0.8832197

Atp8b4 ENSMUSG00000060131	-0.1231811	0.8832304
Adam17 ENSMUSG00000052593	-0.0536459	0.8833076
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Plpp5 ENSMUSG00000031570	0.0534422	0.8833343
Glb1 ENSMUSG00000045594	0.0629448	0.8833343
Rbms1 ENSMUSG00000026970	-0.0536625	0.8833343
Cadm4 ENSMUSG00000054793	-0.079154	0.8833343
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Slc16a4 ENSMUSG00000027896	-0.2522756	0.8834119
Cand2 ENSMUSG00000030319	0.0635858	0.8834119
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Cox8a ENSMUSG00000035885	-0.071677	0.8837063
Gstcd ENSMUSG00000028018	0.0601596	0.883731
Frat2 ENSMUSG00000047604	-0.0712124	0.8838294
Delk2 ENSMUSG00000028078	-0.1390278	0.8839389
Selenof ENSMUSG00000037072	0.0465858	0.8839389
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Ddx41 ENSMUSG00000021494	0.0496233	0.8840162
Pgm5 ENSMUSG00000041731	-0.1307645	0.8840162
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Par1 ENSMUSG00000033918	0.0510587	0.8840976
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Riok3 ENSMUSG00000024404	-0.0531226	0.8867404
Ndufs5 ENSMUSG00000028648	-0.0535117	0.8867404
Ppp4r1 ENSMUSG00000061950	0.0465536	0.8867404
Atg2a ENSMUSG00000024773	0.0432793	0.8870906
Zbtb1 ENSMUSG00000033454	-0.059525	0.8870906
Slc25a40 ENSMUSG00000054095	-0.1145763	0.8870906
Preld2 ENSMUSG00000056671	-0.2648062	0.8873556
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Dffb ENSMUSG00000029027	-0.0833263	0.8885028
Ate1 ENSMUSG00000030850	-0.066357	0.8885028
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Ccdc92 ENSMUSG00000037979	0.125072	0.8885221
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Eme2 ENSMUSG00000073436	-0.135031	0.8887494
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Spdya ENSMUSG00000052525	-0.4798076	0.8898901
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Ssx2ip ENSMUSG00000036825	0.0733936	0.8900295
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Calb2 ENSMUSG00000003657	0.4705781	0.8900295
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Spag7 ENSMUSG00000018287	-0.0592438	0.8900872
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Gli1 ENSMUSG00000025407	-0.2525043	0.8902729
Malt1 ENSMUSG00000032688	0.1180985	0.8902729
Map3k14 ENSMUSG0000002094	0.0751471	0.8904918
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Rfxank ENSMUSG00000036120	0.0955457	0.8906672
Amn1 ENSMUSG00000068250	-0.1221822	0.8906672
Odc1 ENSMUSG00000011179	-0.0429366	0.8906672
Adss1 ENSMUSG00000011148	-0.0995423	0.8906672
Bsg ENSMUSG00000023175	-0.0453893	0.8906672
Tk2 ENSMUSG00000035824	0.072619	0.8911684
Jmjd1c ENSMUSG00000037876	0.1055616	0.8914837
Lsm2 ENSMUSG00000007050	-0.0473955	0.8916129
Ap3d1 ENSMUSG00000020198	0.0469493	0.8916129
Pop5 ENSMUSG00000060152	-0.0724851	0.8917251
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Cog5 ENSMUSG00000035933	-0.1247248	0.8928637
Lmna ENSMUSG00000028063	-0.0441796	0.8928637
Dctd ENSMUSG00000031562	-0.0563223	0.8930953
Srfbp1 ENSMUSG00000024528	0.0635509	0.8930953
Rpa3 ENSMUSG00000012483	0.0710616	0.8930953
Nol4 ENSMUSG00000061411	-0.1173049	0.8933069
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Kdm4c ENSMUSG00000028397	-0.0957651	0.8933321
Tmem35b ENSMUSG0000007073	0.189991	0.8933321
Bnip1 ENSMUSG00000024191	0.0762067	0.8933321
Styk1 ENSMUSG00000032899	-0.1211645	0.8934387
Hexdc ENSMUSG00000039307	0.0848085	0.8934387
Tmem8 ENSMUSG00000024180	0.1309496	0.8934387
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Ssr4 ENSMUSG00000002014	-0.0531417	0.8934387
Nol11 ENSMUSG00000018433	0.0488018	0.8934387
Tomm7 ENSMUSG00000028998	-0.09378	0.8934387
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Caskin1 ENSMUSG00000033597	-0.1779112	0.8937474
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Mtap ENSMUSG00000062937	0.0434824	0.8939386
Cyb5d1 ENSMUSG00000044795	-0.1010712	0.8939386
Pstk ENSMUSG00000063179	-0.0792704	0.8939386
Pdha1 ENSMUSG00000031299	0.0491464	0.8939386
Etfrf1 ENSMUSG00000040370	-0.1099722	0.8941894
Ift74 ENSMUSG00000028576	-0.1184038	0.8941944
Rnf125 ENSMUSG00000033107	0.2581796	0.8942632
Nr2f6 ENSMUSG00000002393	-0.0471004	0.8942632

Cbl ENSMUSG00000034342	-0.0692874	0.8942886
Ttc19 ENSMUSG00000042298	-0.0861321	0.8942886
Atxn7 ENSMUSG00000021738	0.0847844	0.8943374
Cutc ENSMUSG00000025193	0.0747927	0.8943374
Acadl ENSMUSG00000026003	0.0513693	0.8943374
Nop9 ENSMUSG00000019297	0.0463841	0.8943374
Caprin1 ENSMUSG00000027184	-0.04596	0.8943374
Asx12 ENSMUSG00000037486	0.0692781	0.8945123
Psmb7 ENSMUSG00000026750	0.0496609	0.8945123
Reep1 ENSMUSG00000052852	-0.1448969	0.894546
Cdc26 ENSMUSG00000066149	-0.0516356	0.894546
Dlgap4 ENSMUSG00000061689	0.0471663	0.894546
Mtx1 ENSMUSG00000064068	-0.0543571	0.894546
Lhx6 ENSMUSG00000026890	-0.0899853	0.894546
Ctnnbip1 ENSMUSG00000028988	0.0582325	0.8946032
Chst13 ENSMUSG00000056643	-0.5999965	0.8946032
Cthrc1 ENSMUSG00000054196	-0.1019908	0.8946032
Prkra ENSMUSG00000002731	-0.0901637	0.8947282
Smtn ENSMUSG00000020439	-0.0536658	0.8948337
Ddb2 ENSMUSG00000002109	-0.138237	0.8949409
Papd5 ENSMUSG00000036779	-0.0640136	0.895013
Aars2 ENSMUSG00000023938	-0.0604587	0.8951728
Csrnp2 ENSMUSG00000044636	0.0598077	0.8951728
F11r ENSMUSG00000038235	0.0649786	0.8951728
Vars2 ENSMUSG00000038838	-0.0563008	0.8951728
Apex1 ENSMUSG00000035960	0.0524129	0.8952591
Wipi2 ENSMUSG00000029578	-0.0443299	0.8952591
Cog2 ENSMUSG00000031979	0.0503068	0.8952591
Nelfcd ENSMUSG00000016253	-0.0468397	0.8952591
Use1 ENSMUSG00000002395	-0.0653934	0.8952591
Lrrc41 ENSMUSG00000028703	0.0493011	0.8953503
Pard3b ENSMUSG00000052062	0.2112731	0.8953602
Fam206a ENSMUSG00000038827	-0.0788179	0.8953602
Zfp523 ENSMUSG00000024220	-0.0520002	0.8953602
Gm8113 ENSMUSG00000089901	0.5393593	0.8953602
Midn ENSMUSG00000035621	0.0438197	0.8953602
Tigd3 ENSMUSG00000044390	0.1345813	0.8953602
Mtss1 ENSMUSG00000022353	-0.1885017	0.8955862
Acpp ENSMUSG00000032561	0.3066604	0.8955862
Limd1 ENSMUSG00000025239	0.0483065	0.8955955
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Vdr ENSMUSG00000022479	-0.0475414	0.8957431
Lrr1 ENSMUSG00000034883	-0.0923994	0.8957431
Tmtc3 ENSMUSG00000036676	-0.0895433	0.8957431
Cbx4 ENSMUSG00000039989	0.0669498	0.8957431
Srsf9 ENSMUSG00000029538	0.0440933	0.8957431
Ptprk ENSMUSG00000019889	-0.0505752	0.8957431
Upf2 ENSMUSG00000043241	-0.0861991	0.8957431
Pdzrn3 ENSMUSG00000035357	0.056786	0.8957431
Ube2c ENSMUSG00000001403	-0.0477058	0.8957431
Wnt11 ENSMUSG00000015957	0.1096446	0.8957431
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Gimap9 ENSMUSG00000051124	0.3811544	0.8966584
Mamld1 ENSMUSG00000059401	0.3781896	0.8966584
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Klf8 ENSMUSG00000041649	-0.1789226	0.8966584
Prdm5 ENSMUSG00000029913	-0.1119909	0.8966584
Cdc16 ENSMUSG00000038416	-0.0454617	0.8966584
Mettl3 ENSMUSG00000022160	0.0616298	0.8966584
Slc7a6 ENSMUSG00000031904	0.0447656	0.8966584
Zhx2 ENSMUSG00000071757	-0.08001	0.8966584
Susd4 ENSMUSG00000038576	0.3002308	0.8966584
Foxc2 ENSMUSG00000046714	-0.0859686	0.8966584
Lingo3 ENSMUSG00000051067	-0.1589625	0.8966584
Ubxn4 ENSMUSG00000026353	-0.0432238	0.8966584
Soat1 ENSMUSG00000026600	0.0460242	0.8966584
Mkks ENSMUSG00000027274	-0.1150088	0.8966584
Golga4 ENSMUSG00000038708	-0.1055045	0.8966584
Gcnt2 ENSMUSG00000021360	-0.0585697	0.8966584
Cstad ENSMUSG00000047363	0.3404688	0.8966584
Smim11 ENSMUSG00000051989	0.0734265	0.8966584
Nkpd1 ENSMUSG00000060621	-0.3631401	0.8966584
Hsf1 ENSMUSG00000022556	0.0418708	0.8966584
Xrcc5 ENSMUSG00000026187	0.0616002	0.8966584
Utrn ENSMUSG00000019820	0.0586213	0.8966584
Dynlt1a ENSMUSG00000092074	-0.095026	0.8966584
Psm1 ENSMUSG00000026229	-0.0443125	0.8966584
Ndufb7 ENSMUSG00000033938	0.0526315	0.8966584
Ift172 ENSMUSG00000038564	0.0670995	0.8966584
Cenpl ENSMUSG00000026708	-0.0774593	0.8967104
Esrra ENSMUSG00000024955	0.0520025	0.8967104
Tmcc2 ENSMUSG00000042066	-0.0575725	0.8967214
Fpgt ENSMUSG00000053870	-0.1130959	0.8969122
Glis2 ENSMUSG00000014303	-0.0482022	0.8969122
Zfp106 ENSMUSG00000027288	-0.0426555	0.8969122
Arcn1 ENSMUSG00000032096	-0.0454038	0.8969122
Hnrnpd1 ENSMUSG00000029328	-0.0423014	0.8969122
Tgfa ENSMUSG00000029999	0.2898331	0.8969122
Mnat1 ENSMUSG00000021103	-0.0598089	0.8969122
Eftud2 ENSMUSG00000020929	0.0425118	0.8969122
Ppat ENSMUSG00000029246	-0.0474533	0.8969122
Tbrg4 ENSMUSG00000000384	-0.0450062	0.8969122
Enpp5 ENSMUSG00000023960	-0.1089394	0.8969122
Odaph ENSMUSG00000096035	-0.2986523	0.8969122
Krt17 ENSMUSG00000035557	0.2904516	0.8969122
Nfx1 ENSMUSG00000028423	-0.044395	0.8969122
Steap2 ENSMUSG00000015653	-0.0450101	0.8969122
Acp6 ENSMUSG00000028093	-0.0921976	0.8969122
Thyn1 ENSMUSG00000035443	-0.0591101	0.8969122
Fkbp11 ENSMUSG00000003355	0.0599597	0.8969122
BC034090 ENSMUSG000000337	0.0598246	0.8969122
Gdf9 ENSMUSG00000018238	-0.6014526	0.8970867

Xk ENSMUSG00000015342	-0.4420276	0.8970867
Sp140 ENSMUSG00000070031	-0.5321244	0.8970867
Tb11x ENSMUSG00000025246	-0.0458895	0.8970867
Ddx20 ENSMUSG00000027905	-0.0553342	0.8970867
2810006K23Rik ENSMUSG00000000000	0.0905107	0.8970867
Ifit1 ENSMUSG00000034459	0.0420031	0.8970867
Atp6v0a1 ENSMUSG0000001930	0.0603182	0.8971307
Tomm22 ENSMUSG00000022427	0.0502325	0.8971307
Hoxc12 ENSMUSG00000050328	0.5459046	0.8971307
Vwa5b2 ENSMUSG00000046613	0.5364235	0.8971307
Trip6 ENSMUSG00000023348	0.0440018	0.8971307
Heatr5a ENSMUSG00000035181	-0.0507917	0.8971307
Gm49405 ENSMUSG0000002486	0.1589609	0.8974675
Maz ENSMUSG00000030678	-0.043421	0.8974682
Fam83d ENSMUSG00000027654	-0.0455576	0.8974682
Rab2a ENSMUSG00000047187	-0.043223	0.8974682
Apol9b ENSMUSG00000068246	0.0466347	0.8974682
Dopey1 ENSMUSG00000034973	-0.1211006	0.8974682
Pnk ENSMUSG00000026179	0.0710254	0.8974682
Eef1a1 ENSMUSG00000037742	0.0408296	0.8974682
Slc18a2 ENSMUSG00000025094	0.3030412	0.8974682
Cdkn3 ENSMUSG00000037628	-0.1001464	0.8975328
Bin1 ENSMUSG00000024381	-0.0488997	0.8977625
Fcrlb ENSMUSG00000070524	0.4285332	0.8978281
Psap ENSMUSG00000004207	0.0412139	0.8978281
Kcnq5 ENSMUSG00000028033	0.3021707	0.8978281
Kdm2b ENSMUSG00000029475	0.0501158	0.8978281
Pja1 ENSMUSG00000034403	0.0449475	0.8979018
Bcl7b ENSMUSG00000029681	0.0577588	0.8979018
Wwc2 ENSMUSG00000031563	0.053361	0.8979018
Zfp30 ENSMUSG00000047473	-0.1111357	0.8979018
Gtf3c5 ENSMUSG00000026816	0.0488471	0.8979018
Bbs2 ENSMUSG00000031755	-0.0859595	0.8979018
Pex11g ENSMUSG00000069633	-0.1821907	0.8979018
Cdh11 ENSMUSG00000031673	-0.0441003	0.8979018
Hist1h2be ENSMUSG0000004724	-0.2549183	0.8979018
Mepce ENSMUSG00000029726	-0.0447139	0.8984315
Ahcy11 ENSMUSG00000027893	0.0426412	0.8984315
Zc3h11a ENSMUSG00000102976	-0.154235	0.8984315
Map4k4 ENSMUSG00000026074	0.0420376	0.8984315
Lrrc61 ENSMUSG00000073096	0.1559259	0.8984315
Fam45a ENSMUSG00000024993	-0.1157142	0.8984315
Tex9 ENSMUSG00000090626	0.1786587	0.8984315
BC017158 ENSMUSG0000003078	0.0942749	0.8984315
Mamdc4 ENSMUSG00000026941	0.1213129	0.8985439
Gna11 ENSMUSG00000034781	0.0435325	0.8985439
Znhit1 ENSMUSG00000059518	0.0489484	0.8985439
Sprtn ENSMUSG00000031986	-0.0510155	0.8985439
Gm11549 ENSMUSG0000008500	0.1472348	0.8985439
Arl8b ENSMUSG00000030105	0.0439364	0.898567
Pdcl3 ENSMUSG00000026078	-0.0567954	0.8987025
Nudt17 ENSMUSG00000028100	0.1411378	0.8987025
Pias2 ENSMUSG00000025423	0.0556631	0.8987025

Bcl2 ENSMUSG00000057329	0.131561	0.8987025
Tctn1 ENSMUSG00000038593	-0.0856595	0.8987025
Heatr5b ENSMUSG00000039414	-0.058763	0.8987025
Iqsec2 ENSMUSG00000041115	0.0893932	0.8987025
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Adam9 ENSMUSG00000031555	-0.0526024	0.898827
Esyt2 ENSMUSG00000021171	-0.0545062	0.898827
Lyst ENSMUSG00000019726	-0.1261817	0.898827
Rpsa ENSMUSG00000032518	-0.0524655	0.898827
Sf3b5 ENSMUSG00000078348	-0.0448261	0.898827
Malsu1 ENSMUSG00000029815	0.0798686	0.8988762
Prrg1 ENSMUSG00000047996	0.1335945	0.8988762
Stap2 ENSMUSG00000038781	0.2500188	0.8988762
Ankrd16 ENSMUSG00000047909	-0.0639209	0.8988762
Nrm ENSMUSG00000059791	0.0512842	0.899013
Spag1 ENSMUSG00000037617	-0.174542	0.899013
Rprml ENSMUSG00000046215	0.5446689	0.8990189
Mrpl48 ENSMUSG00000030706	-0.0724786	0.8992233
Msn ENSMUSG00000031207	0.0432583	0.8992233
Cisd3 ENSMUSG00000078695	-0.0624809	0.8992233
Fosb ENSMUSG00000003545	0.1980474	0.8994511
Coq9 ENSMUSG00000031782	0.045314	0.8994511
Coq4 ENSMUSG00000026798	0.086676	0.8995421
Gfpt1 ENSMUSG00000029992	-0.0549533	0.8995756
Gapvd1 ENSMUSG00000026867	-0.0458387	0.8996928
Wdr77 ENSMUSG00000000561	-0.0496956	0.8996928
Socs5 ENSMUSG00000037104	-0.0445892	0.8999205
Ifrd2 ENSMUSG00000010048	0.0432322	0.8999205
Arl8a ENSMUSG00000026426	-0.0443845	0.8999205
Washc3 ENSMUSG00000020056	-0.0729564	0.8999205
Micu2 ENSMUSG00000021973	0.0486763	0.8999205
Asph ENSMUSG00000028207	-0.0473652	0.8999205
Cxcl5 ENSMUSG00000029371	-0.1159878	0.8999205
Best2 ENSMUSG00000052819	-0.6061827	0.8999205
Mindy2 ENSMUSG00000042444	0.1530795	0.8999205
Trap1 ENSMUSG00000005981	0.042291	0.8999205
Pdia3 ENSMUSG00000027248	0.040425	0.8999205
Sorl1 ENSMUSG00000049313	-0.1728034	0.8999213
Zbtb18 ENSMUSG00000063659	0.1077059	0.8999213
Myo6 ENSMUSG00000033577	0.1235368	0.8999213
Col23a1 ENSMUSG00000063564	0.0604299	0.8999213
Cntln ENSMUSG00000038070	0.1058108	0.8999213
Ndufa3 ENSMUSG00000035674	-0.1118045	0.8999213
Pura ENSMUSG00000043991	-0.066462	0.8999213
Senp5 ENSMUSG00000022772	-0.049159	0.8999213
Id3 ENSMUSG00000007872	0.0422612	0.9000341
Anapc15 ENSMUSG00000030649	0.0678277	0.9000341
Efcab7 ENSMUSG00000073791	-0.2035804	0.9000341
Txndc12 ENSMUSG00000028567	0.0498686	0.9000341
Mrm2 ENSMUSG00000029557	-0.092715	0.9000341
Nrbp2 ENSMUSG00000075590	0.0885	0.9000341
Hspa8 ENSMUSG00000015656	0.0420784	0.9000341

Fam174a ENSMUSG00000051185	-0.0784684	0.9000341
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Adamts16 ENSMUSG00000004953	-0.2956905	0.9000341
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Fbrs11 ENSMUSG000000043323	-0.0479974	0.9000341
Hist1h2ae ENSMUSG00000006927	-0.2289329	0.9000341
Tead3 ENSMUSG000000002249	-0.0472107	0.9000341
Ror2 ENSMUSG000000021464	0.0470636	0.9000341
Kdm3a ENSMUSG000000053470	-0.0518065	0.9000341
Adamts6 ENSMUSG000000046169	0.1006372	0.9000341
Tle2 ENSMUSG000000034771	-0.0656698	0.9000341
Cnot6l ENSMUSG000000034724	-0.0569065	0.9000341
Zfp60 ENSMUSG000000037640	-0.1580025	0.9000341
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Ssu72 ENSMUSG000000029038	-0.0452273	0.9000341
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Tspy14 ENSMUSG000000039485	-0.1250374	0.9001276
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Mindy1 ENSMUSG000000038712	-0.0473145	0.9001858
Mrps11 ENSMUSG000000030611	-0.0536677	0.9001858
Slc35d2 ENSMUSG000000033114	0.1390016	0.9001858
Isca2 ENSMUSG000000021241	-0.0590223	0.9001858
Psmc8 ENSMUSG000000030591	0.0409408	0.9001858
Gps2 ENSMUSG000000023170	-0.0529316	0.9001858
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Cct7 ENSMUSG000000030007	-0.0415547	0.9001858
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Zbtb2 ENSMUSG000000075327	0.0673136	0.9001858
Msrb1 ENSMUSG000000075705	0.0553731	0.9001858
Mosmo ENSMUSG000000046096	-0.0597906	0.9001858
Dbr1 ENSMUSG000000032469	0.0539232	0.9001858
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Med16 ENSMUSG000000013833	0.0453883	0.9001858
Pogz ENSMUSG000000038902	0.0478359	0.9001858
Csnk1g1 ENSMUSG000000032384	-0.0646715	0.9001858
Stradb ENSMUSG000000026027	0.1282795	0.9001858
Numbl ENSMUSG000000063160	0.0447889	0.9001858
Snx25 ENSMUSG000000038291	0.0538377	0.9001858
Steap1 ENSMUSG000000015652	-0.0593429	0.9001858
Clic1 ENSMUSG000000007041	0.0431416	0.9001858
Ptpru ENSMUSG000000028909	-0.3760912	0.9001858
Mcat ENSMUSG000000048755	0.0671849	0.9001858
SrpX2 ENSMUSG000000031253	-0.4562563	0.9001858
Ilf2 ENSMUSG000000001016	-0.041464	0.9001858
Elof1 ENSMUSG000000013822	-0.045713	0.9001858
Nxpe3 ENSMUSG000000075033	-0.0788408	0.9001858
Tex264 ENSMUSG000000040813	0.0536688	0.9001858
Fbxo11 ENSMUSG000000005371	-0.0601236	0.9001858
Ankrd61 ENSMUSG000000029607	0.2745033	0.9001858
Fbxl7 ENSMUSG000000043556	-0.3462495	0.9001858
Cdca3 ENSMUSG000000023505	-0.0407219	0.9001858
Dlg4 ENSMUSG000000020886	-0.0566829	0.9001858

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Ube3c ENSMUSG00000039000	0.0536707	0.9001858
Poldip2 ENSMUSG00000001100	0.0419901	0.9001858
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Ece1 ENSMUSG00000057530	-0.049047	0.9001858
Foxn3 ENSMUSG00000033713	-0.0843401	0.9001858
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Gusb ENSMUSG00000025534	0.0441658	0.9001858
Tpst1 ENSMUSG00000034118	0.0435018	0.9001858
Cacna2d1 ENSMUSG0000004011	-0.0791316	0.9001858
Sgk3 ENSMUSG00000025915	-0.1695887	0.9001858
Dnajb14 ENSMUSG00000074212	-0.0866433	0.9001858
Cdipt ENSMUSG00000030682	-0.0415946	0.9001858
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Mbnl3 ENSMUSG00000036109	0.118788	0.9001858
Rnf115 ENSMUSG00000028098	-0.0513315	0.9001858
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Rheb ENSMUSG00000028945	-0.0431259	0.9001858
Thoc6 ENSMUSG00000041319	-0.0517928	0.9001858
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Hnrnpu ENSMUSG00000039630	-0.0403992	0.9001858
Dnah2 ENSMUSG00000005237	-0.6018079	0.9001858
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Ralbp1 ENSMUSG00000024096	0.0433803	0.9001858
Rad52 ENSMUSG00000030166	0.0859123	0.9001858
Btbd1 ENSMUSG00000025103	0.0472186	0.9001858
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Cant1 ENSMUSG00000025575	-0.0436068	0.9001858
Sqor ENSMUSG00000005803	-0.1474508	0.9001858
Mb21d2 ENSMUSG00000051065	-0.0913907	0.9001858
Sybu ENSMUSG00000022340	0.3216061	0.9001858
Mfap3l ENSMUSG00000031647	0.2900137	0.9002325
Rabl6 ENSMUSG00000015087	0.0455225	0.9002325
Rpl15 ENSMUSG00000012405	-0.0500721	0.9004158
Tmem62 ENSMUSG00000054484	-0.1135618	0.9004158
Nr4a2 ENSMUSG00000026826	-0.0942354	0.9004158
Rgl2 ENSMUSG00000041354	-0.0488325	0.9004158
Srek1ip1 ENSMUSG00000021716	-0.0874268	0.9006617
Srrm3 ENSMUSG00000039860	0.3383472	0.9007387
Lrrc2 ENSMUSG00000032495	0.3383487	0.9007387
Arhgap21 ENSMUSG0000003659	0.0574187	0.9007387
Ajuba ENSMUSG00000022178	0.0450469	0.9008321
Arap3 ENSMUSG00000024451	-0.3975405	0.9008321
Idh3a ENSMUSG00000032279	-0.0429309	0.9008321
Bcl3 ENSMUSG00000053175	0.0498201	0.9008321
Rhbg ENSMUSG00000104445	0.4206586	0.9008321
Mapk6 ENSMUSG00000042688	-0.0425624	0.9008321
Cmb1 ENSMUSG00000022235	-0.5446161	0.9008321
Cyb561d1 ENSMUSG0000004879	0.0986138	0.9009246
Iqcc ENSMUSG00000040795	-0.0685058	0.9009246
Shmt1 ENSMUSG00000020534	0.0416181	0.9009246



Prdm2 ENSMUSG00000057637	-0.0447533	0.9009246
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Pabpn1 ENSMUSG00000022194	-0.0447588	0.9009724
Gucd1 ENSMUSG00000033416	-0.0537044	0.9009724
Mmp17 ENSMUSG00000029436	0.2666293	0.9009724
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Exosc1 ENSMUSG00000034321	-0.0442405	0.9012562
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Cdyl2 ENSMUSG00000031758	-0.3848864	0.9015786
Mbtps2 ENSMUSG00000046873	0.0954617	0.9015786
Pomt1 ENSMUSG00000039254	0.0565247	0.9015786
Pdk2 ENSMUSG00000038967	0.1287883	0.9016326
Nr1d2 ENSMUSG00000021775	0.0821552	0.9016326
Slc17a5 ENSMUSG00000049624	-0.0830662	0.9016326
Fen1 ENSMUSG00000024742	0.0670844	0.9016942
Rspo3 ENSMUSG00000019880	0.0649862	0.9016942
Zfp595 ENSMUSG00000057842	-0.3243374	0.9018542
Ahi1 ENSMUSG00000019986	-0.1128388	0.9018542
Fnbp4 ENSMUSG00000008200	-0.0404219	0.9019109
Spata9 ENSMUSG00000021590	-0.4321943	0.9019109
P2rx6 ENSMUSG00000022758	-0.4321909	0.9019109
Mpst ENSMUSG00000071711	-0.0638481	0.9020313
Kctd9 ENSMUSG00000034327	-0.0507334	0.9020313
Gtf3c2 ENSMUSG00000106864	0.0518709	0.9020313
Spef1 ENSMUSG00000027329	0.1419353	0.9022711
Fer115 ENSMUSG00000037432	-0.1876688	0.9022711
Nfkbid ENSMUSG00000036931	0.1852127	0.9022711
Fam129c ENSMUSG00000043243	-0.0953469	0.9022711
Lrrc51 ENSMUSG00000064307	0.2277889	0.9022711
Slc6a17 ENSMUSG00000027894	-0.0417319	0.9022711
Hgsnat ENSMUSG00000037260	-0.0515955	0.9022711
Polr2h ENSMUSG00000021018	-0.0502721	0.9022711
Eci1 ENSMUSG00000024132	0.0516083	0.9022711
Col5a3 ENSMUSG00000004098	-0.0392648	0.9022711
Ap4e1 ENSMUSG00000001998	-0.0887797	0.9022711
Repin1 ENSMUSG00000052751	0.0621173	0.9022711
Arhgap19 ENSMUSG0000002515	-0.0500377	0.9022711
Fam234b ENSMUSG00000030207	-0.0883441	0.9022711
Ing4 ENSMUSG00000030330	0.2208214	0.9022711
Tspan9 ENSMUSG00000030352	-0.0518083	0.9023917
Catsperz ENSMUSG00000050623	0.3730314	0.9023917
Atg101 ENSMUSG00000037204	-0.0478179	0.9023917
Nabp1 ENSMUSG00000026107	0.0727981	0.9023917
Dap ENSMUSG00000039168	0.0414999	0.9023917
Frrs1 ENSMUSG00000033386	0.0483278	0.9023917
Cers5 ENSMUSG00000023021	0.0410353	0.9023917
Pwp1 ENSMUSG00000001785	-0.042096	0.9023917
Rab12 ENSMUSG00000023460	0.040557	0.9023917
Sf3a2 ENSMUSG00000020211	0.040478	0.9024549
Reep6 ENSMUSG00000035504	0.0698479	0.9024549
Ulk3 ENSMUSG00000032308	0.0763269	0.9026478
Ccdc166 ENSMUSG00000098176	0.2765809	0.9027149
Polg ENSMUSG00000039176	0.0462474	0.9027149

Nhs ENSMUSG00000059493	-0.1794671	0.9029291
Cdh2 ENSMUSG00000024304	0.0449628	0.9030363
Notch3 ENSMUSG00000038146	0.1111956	0.903039
Yars ENSMUSG00000028811	0.0407302	0.9031095
Abcf2 ENSMUSG00000028953	0.0448229	0.9031095
Camp ENSMUSG00000038357	0.2165762	0.9032743
Scnm1 ENSMUSG00000092607	-0.0563197	0.9033627
Hoxd9 ENSMUSG00000043342	-0.070107	0.9036927
Plekhg6 ENSMUSG00000038167	0.1396858	0.9036927
Agpat4 ENSMUSG00000023827	-0.0548489	0.9036927
Ipmk ENSMUSG00000060733	0.0534543	0.9036927
Jund ENSMUSG00000071076	-0.0414637	0.9036927
Mrpl3 ENSMUSG00000032563	0.0452054	0.9036927
Zbtb39 ENSMUSG00000044617	0.0774277	0.9036927
Ddx54 ENSMUSG00000029599	0.042112	0.9036927
Gulp1 ENSMUSG00000056870	-0.1202071	0.9036927
Tnfsf12 ENSMUSG00000097328	-0.1485142	0.9037678
Snrpa ENSMUSG00000061479	0.0412007	0.9037678
Ccna2 ENSMUSG00000027715	-0.0394761	0.9037829
Ikzf5 ENSMUSG00000040167	-0.1956381	0.9037829
Zmiz2 ENSMUSG00000041164	0.0478174	0.9037882
Rps26 ENSMUSG00000025362	-0.0576631	0.9037882
Stard4 ENSMUSG00000024378	-0.0492704	0.9037882
Gnptg ENSMUSG00000035521	0.0615157	0.9037882
Depdc7 ENSMUSG00000027173	0.2303587	0.9037882
Arhgap26 ENSMUSG0000003645	0.2470326	0.9037882
Aloxe3 ENSMUSG00000020892	0.2793388	0.9037882
Psm1 ENSMUSG00000030751	-0.041054	0.9037882
Eef1akmt3 ENSMUSG000000801	0.1776562	0.9037882
Coq8a ENSMUSG00000026489	0.1965579	0.9037882
Mtrr ENSMUSG00000034617	0.0476143	0.9037882
Pold2 ENSMUSG00000020471	0.0413198	0.9037882
Bud13 ENSMUSG00000032077	-0.0551118	0.9037882
Phc1 ENSMUSG00000040669	0.0494215	0.9037882
Zfp444 ENSMUSG00000044876	-0.0545204	0.9037882
Slc36a4 ENSMUSG00000043885	-0.0783344	0.9037882
Cdh5 ENSMUSG00000031871	0.3197394	0.9037882
Zfp607a ENSMUSG00000020420	-0.2346111	0.9037882
Crispld2 ENSMUSG00000031825	0.0438969	0.9037882
Alg5 ENSMUSG00000036632	-0.0490321	0.9037882
Ppfia3 ENSMUSG0000003863	-0.1405269	0.9037882
Psat1 ENSMUSG00000024640	0.0381431	0.9037882
Hdac11 ENSMUSG00000034245	-0.1473079	0.9037882
Klf10 ENSMUSG00000037465	-0.054181	0.9037882
Dpm2 ENSMUSG00000026810	-0.0586217	0.9037882
Hsd17b7 ENSMUSG00000026675	-0.063399	0.9037882
Lin54 ENSMUSG00000035310	0.0717202	0.9037882
Tusc2 ENSMUSG00000010054	-0.0743823	0.9037882
Grhpr ENSMUSG00000035637	0.0554623	0.9037882
Fkbp1 ENSMUSG00000033739	-0.0948982	0.904076
Tnk2 ENSMUSG00000022791	0.0394709	0.904154
Trim17 ENSMUSG00000036964	0.3531274	0.9041715
Gpx7 ENSMUSG00000028597	0.1042709	0.9041758

Tmem234 ENSMUSG0000002879	0.0406688	0.9043507
Nipbl ENSMUSG00000022141	-0.0679406	0.9043507
Zswim9 ENSMUSG00000070814	0.075915	0.9043507
Emp1 ENSMUSG00000030208	0.0399571	0.9043507
Ptges3l ENSMUSG00000097487	-0.1975098	0.9043507
Smdt1 ENSMUSG00000022452	0.0463946	0.9043507
Cipc ENSMUSG00000034157	0.0541427	0.9043507
9430038I01Rik ENSMUSG000000	-0.0946528	0.9043507
Snx8 ENSMUSG00000029560	-0.0465163	0.9043507
Nckap1l ENSMUSG00000022488	0.2803399	0.9043507
Zdhhc3 ENSMUSG00000025786	0.0400239	0.9043507
Fermt2 ENSMUSG00000037712	-0.0471927	0.9043507
Cacul1 ENSMUSG00000033417	0.041503	0.9043507
Parp8 ENSMUSG00000021725	0.067463	0.9043507
Atp5s ENSMUSG00000054894	0.1098321	0.9043507
4930426L09Rik ENSMUSG000000	-0.5061182	0.9043507
Prex2 ENSMUSG00000048960	0.4467111	0.9043507
Klhdc4 ENSMUSG00000040263	0.0556879	0.9043507
Abca3 ENSMUSG00000024130	0.083794	0.9043507
Rufy3 ENSMUSG00000029291	-0.0547955	0.9043507
Hyal3 ENSMUSG00000036091	0.320519	0.9043507
Preb ENSMUSG00000045302	-0.039951	0.9043507
Clip2 ENSMUSG00000063146	0.0406933	0.9043507
Telo2 ENSMUSG00000024170	-0.052934	0.9043507
Rab14 ENSMUSG00000026878	0.041759	0.9043507
Pomgnt1 ENSMUSG00000028700	-0.040515	0.9043507
Map4k3 ENSMUSG00000024242	-0.0567599	0.9043507
Nudt2 ENSMUSG00000028443	0.0667863	0.9043507
Mrps36 ENSMUSG00000061474	0.0587202	0.9043507
Nisch ENSMUSG00000021910	0.0391435	0.9043507
Stk4 ENSMUSG00000018209	-0.0466911	0.9043507
Mthfs1 ENSMUSG00000079427	0.1169152	0.9043507
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Homer3 ENSMUSG00000003573	-0.0490214	0.9045054
Slc30a6 ENSMUSG00000024069	0.0568835	0.9046973
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Umps ENSMUSG00000022814	-0.0400039	0.9046973
Cyp26a1 ENSMUSG00000024987	0.2395656	0.9046973
Vps28 ENSMUSG00000115987	-0.0473867	0.9046973
Stx1a ENSMUSG00000007207	-0.0803178	0.9046973
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Tial1 ENSMUSG00000030846	-0.0408469	0.9046973
Klh21 ENSMUSG00000073700	0.0387037	0.9048302
Szrd1 ENSMUSG00000040842	0.0389064	0.9048302
Taf5l ENSMUSG00000038697	0.0403695	0.9049142
Sephs2 ENSMUSG00000049091	0.0438528	0.9049142
Fkbp5 ENSMUSG00000024222	0.0412007	0.9049142
Tmed2 ENSMUSG00000029390	0.0395737	0.9049142
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Nnat ENSMUSG00000067786	0.2412584	0.9052568
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Psm2	ENSMUSG00000015671	-0.0467702	0.9052568
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Cd79a	ENSMUSG00000003379	0.4436631	0.9053931
Gpaa1	ENSMUSG00000022561	-0.0407544	0.9060334
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Gbp3	ENSMUSG00000028268	-0.0385617	0.9065433
Aggf1	ENSMUSG00000021681	-0.0434816	0.9068036
Parn	ENSMUSG00000022685	0.0493512	0.9068036
Ckap4	ENSMUSG00000046841	0.0386828	0.9068036
Acap2	ENSMUSG00000049076	0.0617739	0.9068036
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Slit1	ENSMUSG00000025020	-0.3331675	0.9068036
Cst3	ENSMUSG00000027447	-0.0426954	0.9068036
Ogfod2	ENSMUSG00000023707	-0.0892727	0.9068036
Med11	ENSMUSG00000018923	0.0587944	0.9068036
Sumo2	ENSMUSG00000020738	0.0441283	0.9068036
Sun1	ENSMUSG00000036817	0.0381882	0.9068036
Spred3	ENSMUSG00000037239	0.1086691	0.9072062
Bet11	ENSMUSG00000025484	-0.0704895	0.9072062
Ecd	ENSMUSG00000021810	0.0445667	0.9072167
Rpn1	ENSMUSG00000030062	0.0403822	0.9072222
Med29	ENSMUSG00000003444	-0.0807457	0.9073246
Pim2	ENSMUSG00000031155	0.0890272	0.9073864
Zfp938	ENSMUSG00000062931	0.2004318	0.9073864
Mtmr12	ENSMUSG00000039458	0.06445	0.9073864
Amer2	ENSMUSG00000021986	0.2608235	0.9073864
Samm50	ENSMUSG00000022437	-0.042154	0.9073864
Pld1	ENSMUSG00000027695	-0.1533999	0.9073864
Hmcn1	ENSMUSG00000066842	-0.4516133	0.9074373
Noxo1	ENSMUSG00000019320	0.255956	0.9074373
Rsph6a	ENSMUSG00000040866	-0.4156459	0.9074373
Serinc3	ENSMUSG00000017707	0.0433719	0.9074373
Akap13	ENSMUSG00000066406	-0.0546206	0.907479
Skida1	ENSMUSG00000054074	-0.0825496	0.9075457
Usp21	ENSMUSG00000053483	0.043402	0.9076714
Camkk1	ENSMUSG00000020785	0.0911561	0.9079474
Copz2	ENSMUSG00000018672	0.0472002	0.9081125
Ctsf	ENSMUSG00000083282	-0.1096295	0.9081125
Vamp3	ENSMUSG00000028955	-0.0407419	0.9082836
Iglon5	ENSMUSG00000013367	-0.0566311	0.9082836
Arhgef10	ENSMUSG00000071176	-0.0505946	0.9082836
Filip11	ENSMUSG00000043336	-0.046194	0.9082836
Arhgap18	ENSMUSG0000003903	-0.2251682	0.9083591
Tmem140	ENSMUSG0000005713	0.1322528	0.9083591
Supt4a	ENSMUSG00000020485	0.0526088	0.9083591
Fahd2a	ENSMUSG00000027371	-0.2684979	0.9083591
Map7d1	ENSMUSG00000028849	0.03831	0.9083591
Gigyf1	ENSMUSG00000029714	-0.0394389	0.9083591
Plekhg5	ENSMUSG00000039713	-0.0495828	0.9084627
Lman1	ENSMUSG00000041891	-0.0428452	0.908582
Tnfrsf10b	ENSMUSG0000002207	-0.0530327	0.908582

Ndor1 ENSMUSG00000006471	-0.0718435	0.908582
Psme3 ENSMUSG00000078652	0.0402431	0.908582
Spsb3 ENSMUSG00000024160	-0.0834462	0.908582
Dync1li2 ENSMUSG00000035770	-0.0425817	0.908582
Cdkal1 ENSMUSG00000006191	-0.1189839	0.9086354
Emb ENSMUSG00000021728	-0.0544773	0.9086354
Smco4 ENSMUSG00000058173	-0.0827429	0.9086898
Mrps21 ENSMUSG00000054312	0.0573989	0.908781
Rasgrp2 ENSMUSG00000032946	0.4423639	0.908781
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Apoe ENSMUSG00000002985	-0.0527135	0.908781
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Crtap ENSMUSG00000032431	0.0421888	0.908781
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Tmub2 ENSMUSG00000034757	-0.056618	0.9089524
Atf7 ENSMUSG00000099083	0.0440337	0.9089524
Actr3 ENSMUSG00000026341	-0.0378917	0.9089524
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Sapcd1 ENSMUSG00000036185	0.4489106	0.9089524
6720489N17Rik ENSMUSG00000000000	0.2456877	0.9089524
Col12a1 ENSMUSG00000032332	0.0454266	0.9089524
Dap3 ENSMUSG00000068921	0.0447045	0.9089524
Irak2 ENSMUSG00000060477	-0.0879521	0.9089524
Cdpf1 ENSMUSG00000064284	-0.0923116	0.9089524
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Phlda1 ENSMUSG00000020205	-0.0722119	0.9089524
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Csnk1g2 ENSMUSG00000003345	0.037732	0.9089524
Faxc ENSMUSG00000028246	0.0679398	0.9089524
Mief2 ENSMUSG00000018599	-0.0676759	0.9089524
Ctbs ENSMUSG00000028189	-0.111593	0.9089524
Ccdc157 ENSMUSG00000051427	0.0568592	0.9089524
Dnaja2 ENSMUSG00000031701	0.0385211	0.9089598
Spire2 ENSMUSG00000010154	-0.0533496	0.9089988
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Slc43a1 ENSMUSG00000027075	-0.1060737	0.9091776
Adamts13 ENSMUSG00000070461	-0.1217275	0.9091776
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Prnp ENSMUSG00000079037	0.0400283	0.9094552

Ergic3 ENSMUSG00000005881	-0.0423474	0.9094552
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Fam208b ENSMUSG00000033795	-0.079719	0.9094552
Atf2 ENSMUSG00000027104	0.0580462	0.9094552
Nsd2 ENSMUSG00000057406	-0.0415405	0.9094552
Slc27a1 ENSMUSG00000031808	-0.0479027	0.9094552
Tex2 ENSMUSG00000040548	0.0578181	0.9094552
Osbp12 ENSMUSG00000039050	0.05273	0.9094552
Usp24 ENSMUSG00000028514	-0.0540598	0.9094552
Mum111 ENSMUSG00000042515	0.135201	0.9094552
Ccdc115 ENSMUSG00000042111	-0.0559845	0.9094552
Bdnf ENSMUSG00000048482	-0.0785013	0.9094552
Slc44a2 ENSMUSG00000057193	0.0387472	0.9094552
Dnaja4 ENSMUSG00000032285	-0.1529339	0.9094552
Cep192 ENSMUSG00000024542	-0.0671664	0.9094552
Dnlz ENSMUSG00000075467	-0.0422619	0.9094552
Slc4a2 ENSMUSG00000028962	0.0391816	0.9094552
Tceanc2 ENSMUSG00000028619	-0.0536371	0.9094552
Eme1 ENSMUSG00000039055	-0.0583193	0.9094552
Gtf2f1 ENSMUSG00000002658	0.0438987	0.9094552
Glt28d2 ENSMUSG00000031286	0.4100294	0.9094552
Serp2 ENSMUSG00000052584	-0.0930033	0.9094552
Mif4gd ENSMUSG00000020743	0.0800438	0.9094552
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Wdr37 ENSMUSG00000021147	-0.0735633	0.9094552
Herc4 ENSMUSG00000020064	-0.0587666	0.9094552
Nol10 ENSMUSG00000061458	-0.0381654	0.9094552
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Matn3 ENSMUSG00000020583	-0.298895	0.9094552
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Tfdp1 ENSMUSG00000038482	0.0394857	0.9094552
Hp1bp3 ENSMUSG00000028759	0.0380085	0.9094552
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Rpl41 ENSMUSG00000093674	-0.0727116	0.9095299
Itga5 ENSMUSG00000000555	0.0368393	0.9096012
Utp23 ENSMUSG00000022313	-0.0675245	0.9096012
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Rac3 ENSMUSG00000018012	-0.0859927	0.9096664
Bccip ENSMUSG00000030983	0.0434217	0.9097611
Arhgdib ENSMUSG00000030220	-0.0561318	0.9098853
Narf ENSMUSG00000000056	0.0555781	0.9098853
Bcl7a ENSMUSG00000029438	-0.0534501	0.9098853
Impa2 ENSMUSG00000024525	0.058966	0.9098853
Klhdc3 ENSMUSG00000063576	0.0389098	0.9098853
Cdc42se2 ENSMUSG0000005229	0.045592	0.9098853
Bloc1s5 ENSMUSG00000038982	-0.0730844	0.9098853
Syne2 ENSMUSG00000063450	-0.0562533	0.9099142
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Glr2 ENSMUSG00000018196	-0.0723838	0.9099142
Svbp ENSMUSG00000028643	-0.0573886	0.9099142
Ap2s1 ENSMUSG00000008036	-0.0512075	0.9099142
Rsrp1 ENSMUSG00000037266	0.0371345	0.9099142
Mpi ENSMUSG00000032306	-0.0566379	0.9099142
Cox5b ENSMUSG00000061518	0.0463517	0.9099142
Tubb2b ENSMUSG00000045136	-0.0482214	0.9099142
Pkd2 ENSMUSG00000034462	-0.0453439	0.9099142
Gprc5a ENSMUSG00000046733	-0.0604537	0.9099142
Vps54 ENSMUSG00000020128	-0.0522019	0.9099142
Rnf139 ENSMUSG00000037075	0.0571957	0.9099142
Mrc2 ENSMUSG00000020695	0.0373089	0.9099142
Rhbdf1 ENSMUSG00000020282	0.0365927	0.9099142
Txnip ENSMUSG00000038393	0.0456798	0.9099142
Cox6a1 ENSMUSG00000041697	0.0416477	0.9099142
Rai1 ENSMUSG00000062115	0.0372273	0.9099142
Hoxb9 ENSMUSG00000020875	-0.085384	0.9099142
Mark4 ENSMUSG00000030397	0.044167	0.9099142
Wbp1 ENSMUSG00000030035	0.0477541	0.9099142
Kbtbd6 ENSMUSG00000075502	-0.1607918	0.9099142
C2cd5 ENSMUSG00000030279	-0.085777	0.9099142
Cnn3 ENSMUSG00000053931	-0.0373446	0.9099142
Gstz1 ENSMUSG00000021033	0.0628415	0.9099142
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Surf1 ENSMUSG00000015790	-0.0489257	0.9099142
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Rps9 ENSMUSG00000006333	-0.0423138	0.9099142
Taf11 ENSMUSG00000024218	0.051718	0.9099142
Uxt ENSMUSG00000001134	-0.0871858	0.9099142
Rtf2 ENSMUSG00000027502	-0.0387559	0.9099142
Aldh9a1 ENSMUSG00000026687	0.0452863	0.9099142
Hck ENSMUSG00000003283	0.1418877	0.9099142
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Dtx2 ENSMUSG00000004947	0.0505527	0.9099142
Eif4e3 ENSMUSG00000093661	0.1001378	0.9099142
Chst2 ENSMUSG00000033350	-0.0561588	0.9099142
Ltb ENSMUSG00000024399	-0.5538539	0.9099142
Aig1 ENSMUSG00000019806	-0.0553508	0.9099142
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Slc35a1 ENSMUSG00000028293	-0.0736124	0.9099142
Noc2l ENSMUSG00000095567	0.0368148	0.9099142
Hectd2 ENSMUSG00000041180	0.2293066	0.9099142
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Fsip1 ENSMUSG00000027344	-0.466537	0.9099895
Rpl37 ENSMUSG00000041841	-0.0792718	0.9099895
Gm10131 ENSMUSG0000006341	-0.0458628	0.9101298
Sdha ENSMUSG00000021577	0.0381219	0.910137

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Ing5 ENSMUSG00000026283	-0.0507685	0.9105133
Phykp1 ENSMUSG00000020359	-0.0644857	0.9105543
Bckdha ENSMUSG00000060376	0.0679822	0.9105543
Vcpip1 ENSMUSG00000045210	-0.0667745	0.9105543
Rfc2 ENSMUSG00000023104	0.046338	0.9105543
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Cnn2 ENSMUSG00000004665	-0.0367118	0.9105543
Moxd1 ENSMUSG00000020000	-0.2889374	0.9105543
Svip ENSMUSG00000074093	0.4109158	0.9105543
Plk2 ENSMUSG00000021701	-0.0363911	0.9105543
Ctnbp2nl ENSMUSG0000006212	0.056855	0.9105814
Vmp1 ENSMUSG00000018171	-0.039732	0.9106147
Abcf1 ENSMUSG00000038762	0.0377994	0.9106147
Kdm2a ENSMUSG00000054611	0.0394936	0.9107828
Ube2g2 ENSMUSG00000009293	-0.0394749	0.9109615
Gpnmb ENSMUSG00000029816	-0.0901481	0.9109615
Actr10 ENSMUSG00000021076	-0.0434646	0.9109615
Ndufb8 ENSMUSG00000025204	0.0382925	0.9109615
Mrpl21 ENSMUSG00000024829	-0.0487543	0.9110908
Usp39 ENSMUSG00000056305	0.0394927	0.9110908
H2-Ke6 ENSMUSG00000073422	0.4055171	0.911128
Dnpep ENSMUSG00000026209	-0.0495096	0.911128
Drosha ENSMUSG00000022191	0.0395215	0.911128
Pcdhgc5 ENSMUSG00000102543	0.1274695	0.911307
Keng1 ENSMUSG00000074575	0.1358302	0.911307
Wrnip1 ENSMUSG00000021400	-0.0365636	0.911359
Aven ENSMUSG00000003604	0.0508384	0.911359
S100pbp ENSMUSG00000040928	-0.0505898	0.911359
Lrp2 ENSMUSG00000027070	-0.27582	0.911359
Ropn1l ENSMUSG00000022236	-0.2939796	0.911359
Erfe ENSMUSG00000047443	0.1853822	0.911359
Aff1 ENSMUSG00000029313	0.0465403	0.911359
Lamb1 ENSMUSG00000002900	-0.0397344	0.911359
Fam20a ENSMUSG00000020614	0.1140289	0.911359
Mrrf ENSMUSG00000026887	-0.0605886	0.911359
Trim46 ENSMUSG00000042766	-0.0718217	0.911359
Polr1d ENSMUSG00000029642	-0.0410226	0.911359
Cpxm1 ENSMUSG00000027408	-0.0882069	0.911359
Togaram2 ENSMUSG0000004576	-0.3085424	0.911359
Sepsecs ENSMUSG00000029173	-0.0730173	0.911359
Rsb1 ENSMUSG00000044098	0.076796	0.9114128
I11 ENSMUSG00000004371	0.2129578	0.9114128
Cntnap1 ENSMUSG00000017167	0.0948965	0.9114128
Rfx1 ENSMUSG00000031706	0.0481658	0.9114552
Lyplal1 ENSMUSG00000039246	0.1249869	0.9114552
Baiap2l2 ENSMUSG00000018126	0.2518648	0.9114552
Fam78a ENSMUSG00000050592	0.2094963	0.9114552
Rhoa ENSMUSG00000007815	0.0371912	0.9114552
Taok2 ENSMUSG00000059981	0.037631	0.9114552
Slc25a29 ENSMUSG00000021265	0.1031901	0.9114552



Aipl1 ENSMUSG00000040554	0.2733266	0.9114552
Neu3 ENSMUSG00000035239	-0.1575831	0.9114552
Edem3 ENSMUSG00000043019	-0.0650182	0.9114552
Tead4 ENSMUSG00000030353	-0.0939846	0.9114552
Cdc25a ENSMUSG00000032477	-0.0400826	0.9114552
Marf1 ENSMUSG00000060657	0.0476923	0.9114552
Slf1 ENSMUSG00000021597	0.0835468	0.9114552
Ybey ENSMUSG00000033126	-0.0812489	0.9114552
Cln8 ENSMUSG00000026317	0.0491419	0.9114552
Rel ENSMUSG00000020275	-0.1090358	0.9114552
Egfl7 ENSMUSG00000026921	-0.0846902	0.9114552
Cct5 ENSMUSG00000022234	-0.0360667	0.9114552
Zfp746 ENSMUSG00000057691	0.0527735	0.9114552
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Babam1 ENSMUSG00000031820	-0.0412715	0.9114552
Lzts3 ENSMUSG00000037703	-0.059806	0.9114552
Cystm1 ENSMUSG00000046727	-0.1462492	0.9114552
Ulbp1 ENSMUSG00000079685	0.4549042	0.9114552
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Btg2 ENSMUSG00000020423	0.0595842	0.9117403
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Dnase2a ENSMUSG00000003812	-0.0667022	0.9120215
Herpud2 ENSMUSG00000008429	0.0665609	0.9123058
Pon3 ENSMUSG00000029759	-0.1592996	0.9123058
Hspbp1 ENSMUSG00000063802	0.0434517	0.9123058
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Lrrc75a ENSMUSG00000046417	0.1049395	0.9139194
Iqgap1 ENSMUSG00000030536	0.0379725	0.9139403
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Rb1 ENSMUSG00000022105	-0.1371761	0.9139403
Gng3 ENSMUSG00000071658	0.2622102	0.9139403
Enpp2 ENSMUSG00000022425	-0.143146	0.9139403
Slc25a28 ENSMUSG00000040414	0.0367854	0.9139403
Armc6 ENSMUSG00000002343	-0.04327	0.9143648
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Dapk3 ENSMUSG00000034974	0.0407804	0.9143648
Nrf1 ENSMUSG00000058440	-0.0425524	0.9143648
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Fbn2 ENSMUSG00000024598	0.0920173	0.9143648
Inka1 ENSMUSG00000042106	0.057976	0.9143648
Shpk ENSMUSG00000005951	-0.2237819	0.9143648
Pak4 ENSMUSG00000030602	0.0434492	0.9143648
Ppl ENSMUSG00000039457	-0.2384842	0.9143648
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Pam ENSMUSG00000026335	0.0498029	0.9143648
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Lrp4 ENSMUSG00000027253	0.0927516	0.9143648
Coro6 ENSMUSG00000020836	0.2649424	0.9143648
Add2 ENSMUSG00000030000	-0.1303929	0.9143648
Zfp407 ENSMUSG00000048410	-0.0630504	0.9143648
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Cggbp1 ENSMUSG00000054604	0.0355485	0.9143648
Crim1 ENSMUSG00000024074	0.0431455	0.9143648
Trps1 ENSMUSG00000038679	0.093379	0.9143648
Ube2d1 ENSMUSG00000019927	0.0487651	0.9143648
Reep2 ENSMUSG00000038555	-0.34317	0.9143648
Alas1 ENSMUSG00000032786	0.0413844	0.9143648
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Flad1 ENSMUSG00000042642	0.0607939	0.9143648
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Cd63 ENSMUSG00000025351	-0.0375343	0.9149677
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Bmpr2 ENSMUSG00000067336	-0.0524337	0.9149677

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Stk25 ENSMUSG00000026277	-0.0381257	0.9149677
Dnajb2 ENSMUSG00000026203	0.0465495	0.9154334
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Gatd1 ENSMUSG000000051007	0.0546215	0.9155879
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Mgmt ENSMUSG000000054612	-0.2602255	0.9155879
Hes7 ENSMUSG00000023781	0.4055644	0.915613
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Chpf ENSMUSG000000032997	0.0363533	0.9159164
Garnl3 ENSMUSG000000038860	0.0891574	0.9162199
Atg10 ENSMUSG000000021619	0.2357063	0.9162199
Brd9 ENSMUSG000000057649	0.0414092	0.9162199
Ncaph ENSMUSG000000034906	-0.0359658	0.9162199
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P2ry6 ENSMUSG000000048779	0.4042604	0.9164624
Dnase1 ENSMUSG000000005980	0.0935898	0.9164624
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Mycn ENSMUSG00000037169	-0.436733	0.9167827
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Recql4 ENSMUSG00000033762	-0.0482843	0.9167827
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Eloa ENSMUSG00000028668	-0.0376267	0.9167827
Tg ENSMUSG00000053469	-0.3417645	0.9167827
Lym9 ENSMUSG00000072640	-0.1174077	0.9167827
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Gm9938 ENSMUSG00000054178	-0.226187	0.9167827
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Frm8 ENSMUSG00000024816	0.0374025	0.9168957
Rhox5 ENSMUSG00000095180	-0.3244403	0.9169326
Tdrp ENSMUSG00000050052	-0.4088353	0.9169326
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Osbp ENSMUSG00000024687	0.0379011	0.9169326
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C1ql4 ENSMUSG00000001076	0.2064332	0.9169326
Tmem206 ENSMUSG0000002662	0.0791483	0.9169326
Rad54l2 ENSMUSG00000040661	0.0504785	0.9169326
Amz1 ENSMUSG00000050022	0.1133538	0.9169326
Nsmce3 ENSMUSG00000070520	-0.052076	0.917041
Cacna1a ENSMUSG00000034656	-0.0735682	0.9172222
Lmo1 ENSMUSG00000036111	-0.1576459	0.917276
Kifc1 ENSMUSG00000079553	-0.0355225	0.917276
Lrfr3 ENSMUSG00000036957	-0.0898779	0.9173257
Gfpt2 ENSMUSG00000020363	0.0665845	0.9174785
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Morn1 ENSMUSG00000029049	-0.163674	0.9174785
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Mthfd1 ENSMUSG00000021048	0.0353944	0.9174785
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Fbxl6 ENSMUSG00000022559	0.043432	0.9174785
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Acsbg1 ENSMUSG00000032281	-0.1398247	0.9174785

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Fkbp4 ENSMUSG00000030357	-0.0350639	0.9174785
Xylb ENSMUSG00000035769	-0.0722943	0.9174785
Prkacb ENSMUSG00000005034	-0.0393821	0.9174785
H1fx ENSMUSG00000044927	0.0435413	0.9177118
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Glyctk ENSMUSG00000020258	0.1867496	0.9177118
Naxd ENSMUSG00000031505	0.0408103	0.9177118
Slc26a2 ENSMUSG00000034320	-0.0803144	0.9177176
Mars ENSMUSG00000040354	0.0352827	0.9179243
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Hacd4 ENSMUSG00000028497	0.1367687	0.9181603
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Rwdd2a ENSMUSG00000032417	-0.2502207	0.9181603
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Ptov1 ENSMUSG00000038502	-0.0375043	0.9181603
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Zfp292 ENSMUSG00000039967	0.0899319	0.9181603
Ras110a ENSMUSG00000034209	0.1733932	0.9186044
Brf2 ENSMUSG00000031487	-0.05216	0.9186611
Axin1 ENSMUSG00000024182	0.0368183	0.9187257
Parva ENSMUSG00000030770	0.0353726	0.9187257
Rplp2 ENSMUSG00000025508	-0.0536322	0.9187257
Mgarp ENSMUSG00000037161	-0.0847536	0.9187466
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Trim43c ENSMUSG00000067399	0.3484725	0.9189938
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Vps33b ENSMUSG00000030534	0.0697638	0.9195163
Itih5 ENSMUSG00000025780	0.2393448	0.9195759
Cep164 ENSMUSG00000043987	0.0499861	0.9198362
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Zdhhc18 ENSMUSG00000037553	0.0350952	0.9203529
Pigm ENSMUSG00000050229	-0.0514458	0.9203529
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Sept2 ENSMUSG00000026276	-0.2499348	0.9203529
Plpp6 ENSMUSG00000040105	0.0841152	0.9203529
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Med19 ENSMUSG00000027080	0.0459933	0.9203529
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Fam53c ENSMUSG00000034300	0.0373437	0.9203529
Slc17a9 ENSMUSG00000023393	-0.3231723	0.9203529
Ptprf ENSMUSG00000033295	0.0733261	0.9203529
Trappc12 ENSMUSG00000020628	0.0435031	0.9203529
Lancl3 ENSMUSG00000047344	0.1410355	0.9203529
Mfsd2b ENSMUSG00000037336	-0.2420309	0.9204152
Epsti1 ENSMUSG00000022014	0.2508867	0.9204152
Fastk ENSMUSG00000028959	-0.0352138	0.9204152
Txn2 ENSMUSG00000005354	-0.038694	0.9204152
Opa1 ENSMUSG00000038084	0.0473346	0.9204152
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Creld1 ENSMUSG00000030284	-0.0891865	0.9207109
Lynx1 ENSMUSG00000022594	0.082789	0.9207109
Aamp ENSMUSG00000006299	-0.0359291	0.9207109
Wdsub1 ENSMUSG00000026988	0.0538093	0.9207109
Pcm1 ENSMUSG00000031592	0.052236	0.9207109
Nasp ENSMUSG00000028693	-0.0373801	0.9207135
Stk35 ENSMUSG00000037885	0.0431411	0.9208062
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Camta2 ENSMUSG00000040712	0.0501161	0.9211715
Nipsnap1 ENSMUSG00000034284	-0.0851712	0.9211715
Rbm26 ENSMUSG00000022119	-0.0521	0.9212566
Adgrb2 ENSMUSG00000028782	-0.2365742	0.9212566
Lsm12 ENSMUSG00000020922	-0.0368091	0.9212566
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Ccser2 ENSMUSG00000058690	-0.1079565	0.9216295
Abhd6 ENSMUSG00000025277	0.1053416	0.9216295
Slc25a10 ENSMUSG00000025792	0.0408597	0.9216815
Spcs1 ENSMUSG00000021917	-0.0458737	0.9217175
Capn2 ENSMUSG00000026509	-0.034256	0.9217175
Pin1 ENSMUSG00000032171	-0.0346257	0.9217175
Polg2 ENSMUSG00000020718	0.1124732	0.9217175
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Nr2f1 ENSMUSG00000069171	0.0601893	0.9217175
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Nrg2 ENSMUSG00000060275	0.4356301	0.9217619
Gm12184 ENSMUSG0000007815	-0.0685847	0.9217619
Brms1l ENSMUSG00000012076	-0.0429603	0.9217619
Cdc37l1 ENSMUSG00000024780	-0.0439252	0.9217619
Mrgbp ENSMUSG00000027569	-0.0398286	0.9217619
Tmem87a ENSMUSG0000003380	-0.0488742	0.9217619
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Vasp ENSMUSG00000030403	-0.0352252	0.9218991
Amdhd1 ENSMUSG00000015890	-0.4062513	0.9218991
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Polr2m ENSMUSG00000032199	0.0333077	0.9219079
Tchh ENSMUSG00000052415	-0.2470623	0.9219282
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Cnot8 ENSMUSG00000020515	0.0371579	0.92223
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Hoxa1 ENSMUSG00000029844	0.1183674	0.9222447
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Kank3 ENSMUSG00000042099	-0.0978545	0.9227986
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Trmu ENSMUSG00000022386	-0.0659151	0.9257902
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Ikbkap ENSMUSG00000028431	-0.0337739	0.9257902
Wwox ENSMUSG00000004637	0.0693	0.9257973
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Lrfn4 ENSMUSG00000045045	-0.0310569	0.9309284
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Tpra1 ENSMUSG00000002871	-0.044277	0.9311055
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Psm14 ENSMUSG00000026914	0.0321149	0.931314
Cep290 ENSMUSG00000019971	-0.1788053	0.931314

Adgre5 ENSMUSG00000002885	0.0340045	0.9316017
Trp63 ENSMUSG00000022510	0.2838194	0.9317356
Yju2 ENSMUSG00000003208	-0.0459797	0.9317356
Gcn111 ENSMUSG00000041638	0.0312604	0.9317356
Brf1 ENSMUSG00000011158	0.0386015	0.9317356
Nemp2 ENSMUSG00000043015	0.0788342	0.9317356
Arsa ENSMUSG00000022620	0.0434446	0.93179
Zfp598 ENSMUSG00000041130	0.0320405	0.93179
Timm17a ENSMUSG00000062581	0.0352793	0.9318786
Dedd ENSMUSG00000013973	0.0754273	0.9319213
Mreg ENSMUSG00000039395	0.1318298	0.9319213
Tkt ENSMUSG00000021957	0.0304285	0.9319213
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Ppil1 ENSMUSG00000024007	0.032075	0.9319213
Nudt22 ENSMUSG00000037349	0.0453004	0.9319213
Retsat ENSMUSG00000056666	-0.0495029	0.9319213
Fgfr11 ENSMUSG00000008090	0.0551069	0.9319213
Elp2 ENSMUSG00000024271	-0.0331262	0.9319213
Gm7324 ENSMUSG00000049235	-0.2972745	0.9319213
Irf3 ENSMUSG00000003184	-0.0387195	0.9319213
Braf ENSMUSG00000002413	-0.0931745	0.9319292
Mtmr14 ENSMUSG00000030269	-0.0461919	0.9321483
Gramd1b ENSMUSG00000040111	0.1085184	0.9325883
Cep135 ENSMUSG00000036403	-0.1144216	0.933015
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Retreg1 ENSMUSG00000022270	0.0982892	0.933015
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Hddc3 ENSMUSG00000030532	-0.1085128	0.9335541
Tufm ENSMUSG00000073838	0.0310944	0.9335541
Clasp1 ENSMUSG00000064302	0.0367369	0.9335541
Rgs17 ENSMUSG00000019775	0.1739509	0.9335541
Acta2 ENSMUSG00000035783	0.0312306	0.9335541
Cuedc1 ENSMUSG00000018378	0.0650599	0.9335541
Gpr35 ENSMUSG00000026271	-0.1130411	0.9335541
Bud23 ENSMUSG00000005378	-0.0396873	0.9335541
Ctps2 ENSMUSG00000031360	0.0396629	0.9335541
Ttc16 ENSMUSG00000039021	-0.3427382	0.9335541
Zechc10 ENSMUSG00000018239	-0.0847554	0.9335541
Rttm ENSMUSG00000023066	0.0716588	0.9335541
L1cam ENSMUSG00000031391	0.2069935	0.9335541
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Tmem154 ENSMUSG0000005649	0.17827	0.9335541
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Tmem18 ENSMUSG00000043061	0.0437413	0.9335541
Zfp442 ENSMUSG00000068130	-0.3325603	0.9335541
Rnf8 ENSMUSG00000090083	-0.0739354	0.9340288
Rusc2 ENSMUSG00000035969	0.0498474	0.9340288
Supv311 ENSMUSG00000020079	0.037438	0.9340894
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Ruvbl1 ENSMUSG00000030079	0.0322438	0.9340894

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Akip1 ENSMUSG00000031023	-0.0705785	0.9340894
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Fibin ENSMUSG00000074971	0.1930396	0.9340894
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Cdk11b ENSMUSG00000029062	-0.031862	0.9343149
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Cep76 ENSMUSG00000073542	0.0439314	0.9345703
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4933405L10Rik ENSMUSG000000	0.2551547	0.93498
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Samd4b ENSMUSG00000109336	0.0332898	0.9356844
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Slc7a3 ENSMUSG00000031297	0.1486984	0.9361173
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Msto1 ENSMUSG00000068922	-0.0303843	0.9364942
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Kif22 ENSMUSG00000030677	0.0328696	0.9368882
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Syngr1 ENSMUSG00000022415	-0.0863668	0.9368882
Rassf7 ENSMUSG00000038618	0.0565501	0.9368882
Kdm7a ENSMUSG00000042599	-0.1277615	0.9368937
Ndufa7 ENSMUSG00000041881	-0.0508015	0.9369058
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Rpl4 ENSMUSG00000032399	-0.0308156	0.9371472
Ankrd17 ENSMUSG00000055204	0.0309281	0.9371472
Syt13 ENSMUSG00000027220	0.0605629	0.9372849
Nol7 ENSMUSG00000063200	-0.0376215	0.9372849
Epha1 ENSMUSG00000029859	0.1989223	0.9372849

Abcg1 ENSMUSG00000024030	0.1012827	0.9372849
Dusp19 ENSMUSG00000027001	-0.0954073	0.9372849
Ing3 ENSMUSG00000029670	-0.0620037	0.9374003
Rsph1 ENSMUSG00000024033	0.2827696	0.9374505
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Ndufab1 ENSMUSG00000030869	0.0370206	0.9379608
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Cnst ENSMUSG00000038949	0.0576539	0.9379983
Lsm7 ENSMUSG00000035215	0.0391044	0.9379983
Scrn2 ENSMUSG00000020877	0.0522206	0.938248
Clip4 ENSMUSG00000024059	-0.1538763	0.9385212
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Hpd1 ENSMUSG00000043155	-0.1185327	0.938626
Myof ENSMUSG00000048612	0.0304184	0.9387971
Ifnlr1 ENSMUSG00000062157	-0.2712403	0.9388216
Gls2 ENSMUSG00000044005	0.073365	0.9388216
Unc50 ENSMUSG00000026111	0.0453032	0.9388478
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Cd1d1 ENSMUSG00000028076	-0.1050774	0.9396906
Rbfox2 ENSMUSG00000033565	0.0313906	0.9396906
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Myl12b ENSMUSG00000034868	0.102907	0.9398263
Rsg1 ENSMUSG00000073733	-0.1239285	0.9398263
Adck2 ENSMUSG00000046947	-0.0710949	0.9398263
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Gar1 ENSMUSG00000028010	0.0336518	0.9400996
Prkar1a ENSMUSG00000020612	0.0284652	0.9400996
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Arl2 ENSMUSG00000024944	-0.0333058	0.9402434

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Shc4 ENSMUSG00000035109	-0.0902001	0.9404879
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Psmb5 ENSMUSG00000022193	-0.0397143	0.9407977
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Klf4 ENSMUSG00000003032	0.0734668	0.9426198
Prkci ENSMUSG00000037643	0.0349	0.9427619
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Bloc1s1 ENSMUSG00000090247	0.2250355	0.9433979
Cpsf7 ENSMUSG00000034820	0.0304208	0.9433979
Colca2 ENSMUSG00000079559	0.2649993	0.9433979
Smim26 ENSMUSG00000074754	-0.0715169	0.9433979
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Selenok ENSMUSG00000042682	-0.0342249	0.9435016
Apoo ENSMUSG00000079508	0.0719249	0.9435016
Naa10 ENSMUSG00000031388	-0.055266	0.9437145
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Igsf10 ENSMUSG00000036334	0.0517532	0.9437145
H6pd ENSMUSG00000028980	0.0283782	0.9437145
Lgmn ENSMUSG00000021190	0.0301076	0.9437145
Bad ENSMUSG00000024959	-0.0389355	0.9437267
Maoa ENSMUSG00000025037	0.0330544	0.9438578
Rab8a ENSMUSG0000003037	0.0281741	0.9439374
Icosl ENSMUSG00000000732	0.0769632	0.9439374
Mboat1 ENSMUSG00000038732	0.0537768	0.9439374
Cep85 ENSMUSG00000037443	-0.0301886	0.9439374
Vamp8 ENSMUSG00000050732	0.0510165	0.9445845
Pex12 ENSMUSG00000018733	-0.0693136	0.9445845
Usp2 ENSMUSG00000032010	-0.0945441	0.9445845
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Serbp1 ENSMUSG00000036371	-0.0283762	0.9447175
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Peg3 ENSMUSG00000002265	0.1382713	0.9447473
Avpr1a ENSMUSG00000020123	0.0713096	0.9447473
Imp4 ENSMUSG00000026127	0.0311106	0.9448349
Lin7b ENSMUSG00000003872	0.1567056	0.9450312
H2afy2 ENSMUSG00000020086	-0.0388964	0.9450312
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Ap3s2 ENSMUSG00000063801	0.0328565	0.9451804



Smg5 ENSMUSG00000001415	0.0282744	0.9451804
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Gpr19 ENSMUSG000000032641	-0.1317353	0.9451804
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Ecsr ENSMUSG000000073599	-0.4366833	0.945759
Coa4 ENSMUSG000000044881	0.0617093	0.9460129
Zfp41 ENSMUSG000000047003	0.0502721	0.9460864
Spred1 ENSMUSG000000027351	-0.0322562	0.9464974
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Dnajc8 ENSMUSG000000054405	-0.0288505	0.9465378
Camk4 ENSMUSG000000038128	-0.4344821	0.9465378
Hmga2 ENSMUSG000000056758	-0.028864	0.9465378
Gorasp1 ENSMUSG000000032513	0.0456927	0.9465378
Atp2b4 ENSMUSG000000026463	0.0476584	0.9465378
Parvg ENSMUSG000000022439	0.2764129	0.9465378
Calml4 ENSMUSG000000032246	-0.1529756	0.9465378
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Irs1 ENSMUSG000000055980	0.0941737	0.9465378
Ube2e2 ENSMUSG000000058317	0.0401808	0.9465378
Npr2 ENSMUSG000000028469	-0.0521065	0.9465378
Cib2 ENSMUSG000000037493	0.0676738	0.9465378
Pacsin1 ENSMUSG000000040276	0.2597096	0.9465378
Foxj3 ENSMUSG000000032998	0.0342343	0.9465378
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Cyth1 ENSMUSG000000017132	0.040253	0.946569
Rps27a ENSMUSG000000020460	-0.0358087	0.946569
Hsph1 ENSMUSG000000029657	-0.030997	0.946569
Max ENSMUSG000000059436	-0.0272483	0.946569
Vps13d ENSMUSG000000020220	-0.0440348	0.946569
Eif4ebp1 ENSMUSG000000031490	0.0276422	0.946569
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Sept9 ENSMUSG00000059248	0.0252403	0.9575962
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Smad3 ENSMUSG00000032402	0.0290886	0.9578477
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Vps37b ENSMUSG00000066278	0.0360151	0.9582906
Adcy9 ENSMUSG00000005580	0.0771289	0.9584348
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Arhgdig ENSMUSG00000073433	0.0543183	0.9586771
Spin4 ENSMUSG00000071722	-0.1008398	0.9586771
Srp54a ENSMUSG00000073079	0.085353	0.9587616
Tcf25 ENSMUSG00000001472	0.0235936	0.9587616
Scp2 ENSMUSG00000028603	0.0281661	0.9588319
Reep5 ENSMUSG00000005873	-0.024621	0.9588319
Fam110a ENSMUSG00000027455	0.0449674	0.9588319
Gm42688 ENSMUSG0000007951	0.1685022	0.9588336
Gata4 ENSMUSG00000021944	0.1441119	0.9590822
Acot1 ENSMUSG00000072949	0.0981274	0.9591437
Ptpn5 ENSMUSG00000030854	-0.2180407	0.9591437
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Chic1 ENSMUSG00000031327	0.133008	0.9591437
Rab5a ENSMUSG00000017831	-0.0315401	0.9591437
Anxa9 ENSMUSG00000015702	-0.0664318	0.9591437
Dhx57 ENSMUSG00000035051	0.0408434	0.9591437
Pdlim7 ENSMUSG00000021493	-0.0256251	0.959363
Scd1 ENSMUSG00000037071	0.0254161	0.959363

Prune1 ENSMUSG00000015711	0.0328708	0.959363
Tril ENSMUSG00000043496	0.1053666	0.9595002
Tirap ENSMUSG00000032041	0.0411297	0.9595002
Cyp2d22 ENSMUSG00000061740	0.2826747	0.9595002
Pebp1 ENSMUSG00000032959	0.0261016	0.9595002
Plc12 ENSMUSG00000038910	-0.2197129	0.9595002
Mrpl41 ENSMUSG00000036850	0.038339	0.9595002
Anxa8 ENSMUSG00000021950	0.0384158	0.9595002
Pex10 ENSMUSG00000029047	-0.0602962	0.9595002
BC029722 ENSMUSG0000007464	0.0326302	0.9595002
Zfp526 ENSMUSG00000046541	-0.0534392	0.9597317
Dnajc4 ENSMUSG00000024963	0.0432668	0.9598799
Zfp518b ENSMUSG00000046572	0.1017198	0.9599268
Atp1b3 ENSMUSG00000032412	0.0260815	0.9600129
Rpl6 ENSMUSG00000029614	-0.0261548	0.960185
Smarcd2 ENSMUSG00000078619	0.024429	0.960185
Adam8 ENSMUSG00000025473	0.0718415	0.960185
Dhx30 ENSMUSG00000032480	0.0250244	0.960185
Inpp5b ENSMUSG00000028894	-0.033299	0.960185
Cdk14 ENSMUSG00000028926	0.0273191	0.960185
Fbxo33 ENSMUSG00000035329	-0.0348934	0.960185
Rap2c ENSMUSG00000050029	0.0349717	0.960185
Pole3 ENSMUSG00000028394	0.0251739	0.960185
Ctrl ENSMUSG00000031896	-0.1127306	0.960185
Rpl27 ENSMUSG00000063316	-0.0331369	0.960185
H2-Ab1 ENSMUSG00000073421	-0.1174802	0.960185
Htra1 ENSMUSG00000006205	-0.0250597	0.9608799
Cluap1 ENSMUSG00000014232	-0.0704385	0.961061
Pogk ENSMUSG00000040596	0.0512849	0.961061
Man2c1 ENSMUSG00000032295	-0.0292292	0.9611174
Proser3 ENSMUSG00000036864	-0.0523699	0.9615085
Ctsd ENSMUSG00000007891	0.0285522	0.9615085
Mapk8ip3 ENSMUSG0000002416	0.0260485	0.9617765
Slc5a5 ENSMUSG00000000792	-0.2396037	0.962008
Rpl711 ENSMUSG00000063888	-0.0245644	0.9622295
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Fn3krp ENSMUSG00000039253	-0.0603206	0.9622894
Nme4 ENSMUSG00000024177	0.0395179	0.9622894
Cbr2 ENSMUSG00000025150	-0.0321443	0.9622894
Pa2g4 ENSMUSG00000025364	-0.0256345	0.9622894
Casc1 ENSMUSG00000043541	0.2837769	0.9622894
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Lamtor4 ENSMUSG00000050552	0.0350048	0.9622894
U2surp ENSMUSG00000032407	-0.0409537	0.9623574
Bambi ENSMUSG00000024232	0.0745329	0.9623761
Ndufaf1 ENSMUSG00000027305	0.0437458	0.9623879
Cox6c ENSMUSG00000014313	-0.0362033	0.9624508
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Ints13 ENSMUSG00000040250	-0.0361816	0.9629011
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Ung ENSMUSG00000029591	0.0265424	0.96298
Trim3 ENSMUSG00000036989	0.0281115	0.9630018
Arl2bp ENSMUSG00000031776	-0.0237325	0.9630018
Galk1 ENSMUSG00000020766	-0.0278395	0.963022
Srf ENSMUSG00000015605	0.0287303	0.9630748
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Uck2 ENSMUSG00000026558	0.0236203	0.9634567
Usp25 ENSMUSG00000022867	0.0351057	0.9635937
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Dsp ENSMUSG00000054889	-0.1493924	0.9635937
Gng7 ENSMUSG00000048240	-0.0498121	0.9635937
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Cabyr ENSMUSG00000024430	-0.3502666	0.9636174
Hoxa2 ENSMUSG00000014704	0.155652	0.9636174
Eva1a ENSMUSG00000035104	0.1215399	0.9636174
Chml ENSMUSG00000078185	-0.0992774	0.9636174
Zfp524 ENSMUSG00000051184	0.1001787	0.9636174
Nav3 ENSMUSG00000020181	-0.0589746	0.9636174
Atg3 ENSMUSG00000022663	-0.0312087	0.9636174
Tsga10 ENSMUSG00000060771	0.2149807	0.9636174
Yeats2 ENSMUSG00000041215	-0.0275229	0.9636174
Sh3glb2 ENSMUSG00000026860	0.0263365	0.9636174

Map1b ENSMUSG00000052727	0.0343217	0.9640108
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Rita1 ENSMUSG00000029600	0.041142	0.9641912
Dnajc11 ENSMUSG00000039768	0.0239443	0.9641912
Acbd4 ENSMUSG00000056938	-0.0492772	0.9643455
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Inpp4a ENSMUSG00000026113	-0.05073	0.9644855
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Chil1 ENSMUSG00000064246	0.1673995	0.9644855
Smarcad1 ENSMUSG0000002992	-0.0448204	0.9644855
Chmp2a ENSMUSG00000033916	-0.0280499	0.9644855
Ifitm6 ENSMUSG00000059108	0.2913032	0.9644855
Mmaa ENSMUSG00000037022	-0.0433033	0.9644855
Rwdd3 ENSMUSG00000028133	0.1427816	0.9644855
Zfp324 ENSMUSG00000004500	0.035243	0.9649445
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Kdm8 ENSMUSG00000030752	0.0411604	0.9649897
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Glmn ENSMUSG00000029276	-0.1086897	0.9649897
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Foxs1 ENSMUSG00000074676	0.1245217	0.9649897
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Cmas ENSMUSG00000030282	-0.0383859	0.9649897
Rrp1 ENSMUSG00000061032	0.02569	0.9649897
Smim8 ENSMUSG00000028295	-0.0780208	0.9649897
Nrxn2 ENSMUSG00000033768	-0.220807	0.9649897
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Cep162 ENSMUSG00000056919	-0.0904594	0.9649897
Adamts10 ENSMUSG0000002429	-0.0329889	0.9649897
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Man2b2 ENSMUSG00000029119	-0.0287973	0.9653016
Acads ENSMUSG00000029545	-0.0273428	0.9653016
Xpr1 ENSMUSG00000026469	0.0512922	0.9653016
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Nsd3 ENSMUSG00000054823	0.0272457	0.965436
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Gna14 ENSMUSG00000024697	0.1359556	0.9671237
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Tcaf2 ENSMUSG00000029851	-0.0996584	0.9674911

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Dennd1b ENSMUSG00000056268	-0.0866482	0.9682561
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Thg1l ENSMUSG00000011254	-0.0361967	0.9686587
Serpib9g ENSMUSG0000005772	0.2321179	0.9687249
Hnrnp1 ENSMUSG00000015165	0.0212519	0.9687913
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Htr1b ENSMUSG00000049511	0.1468527	0.9687913
Ctsb ENSMUSG00000021939	0.021422	0.9687913
Mfsd10 ENSMUSG00000001082	-0.022287	0.9687913
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Lbr ENSMUSG00000004880	0.030612	0.9689285
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Actl6a ENSMUSG00000027671	0.0227473	0.9696546
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Ninj1 ENSMUSG00000037966	0.0241597	0.9696546
Acad12 ENSMUSG00000042647	-0.0653859	0.9696546
Bbs7 ENSMUSG00000037325	0.0549984	0.9696546
Hspa5 ENSMUSG00000026864	0.0207915	0.9696546
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Col24a1 ENSMUSG00000028197	-0.1845043	0.9696546
Plac8 ENSMUSG00000029322	-0.0646306	0.9696546
Rps6ka4 ENSMUSG00000024952	0.021485	0.9696546
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Dlx3 ENSMUSG00000001510	0.1117204	0.9696548
Pkp1 ENSMUSG00000026413	0.0323987	0.9698057
Nxph4 ENSMUSG00000040258	-0.0926703	0.9698153
Nfya ENSMUSG00000023994	0.0229016	0.9698153
Naglu ENSMUSG00000001751	-0.0428474	0.9699957
Gnb2 ENSMUSG00000029713	-0.0216651	0.9699957
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Jpt1 ENSMUSG00000020737	-0.0238128	0.9699957
Ccnt2 ENSMUSG00000026349	0.0346097	0.9699957
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Pus1 ENSMUSG00000029507	-0.0207173	0.9808616
Preli3a ENSMUSG00000024530	-0.0807666	0.9808616
Tor2a ENSMUSG00000009563	0.0267331	0.9808616
Polr1e ENSMUSG00000028318	0.026515	0.9808616
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Pcdhb5 ENSMUSG00000063687	-0.1794765	0.9869918
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Lamc3 ENSMUSG00000026840	-0.2673668	0.9933489
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Sars ENSMUSG00000068739	0.0126925	0.9933489
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Pnma1 ENSMUSG00000054383	-0.0898694	0.9933883
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Shcbp11 ENSMUSG00000042708	-0.2499702	0.9933883
Tcam1 ENSMUSG00000020712	-0.2499726	0.9933883
Rspo1 ENSMUSG00000028871	-0.2909235	0.9933892
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Diablo ENSMUSG00000029433	0.0334576	0.9933892
Snx9 ENSMUSG00000002365	0.0124839	0.9933892
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Dctn5 ENSMUSG00000030868	0.0163747	0.9933892
Osmr ENSMUSG00000022146	-0.0155861	0.9933892
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Kxd1 ENSMUSG00000055553	0.0188273	0.9933892
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Cish ENSMUSG00000032578	0.0348668	0.9934508
Ank ENSMUSG00000022265	-0.0131643	0.9934508
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Pgm3 ENSMUSG00000056131	-0.0224347	0.9934508
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Etnk2 ENSMUSG00000070644	-0.2327583	0.9937878
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Pred ENSMUSG00000075410	-0.2894501	0.9939271
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Wdr46 ENSMUSG00000024312	0.0135572	0.9943592
Cyb5b ENSMUSG00000031924	0.0121863	0.9943592
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Brd8 ENSMUSG00000003778	-0.0124727	0.9953053
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Ankrd6 ENSMUSG00000040183	-0.1315406	0.9953053
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S1pr5 ENSMUSG00000045087	-0.228496	0.9953053
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Setmar ENSMUSG00000034639	0.0945971	0.9962424
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Ly75 ENSMUSG00000026980	0.0142997	0.9968995
Cox6b1 ENSMUSG00000036751	-0.016993	0.9968995
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Nip7 ENSMUSG00000031917	-0.0125215	0.9968995
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Tsn ENSMUSG00000026374	-0.0116371	0.9968995
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Klf16 ENSMUSG00000035397	-0.0121259	0.9979458
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Pinx1 ENSMUSG00000021958	0.024393	0.9980063
Ampd2 ENSMUSG00000027889	0.0117043	0.9980336
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Hcn1 ENSMUSG00000021730	-0.0469455	0.9983497
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Arhgap4 ENSMUSG00000031389	0.1443915	0.9987273
Cend1 ENSMUSG00000060240	-0.0589994	0.9988849

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Ift46 ENSMUSG00000002031	-0.0158512	0.9991105
Ipo13 ENSMUSG00000033365	0.011708	0.9991105
Cdc14a ENSMUSG00000033502	0.0503293	0.9991105
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Mcm9 ENSMUSG00000058298	-0.023978	0.9991105
Akr1b10 ENSMUSG00000061758	0.0275425	0.9991105
Srl ENSMUSG00000022519	0.0302669	0.9991105
Lonp2 ENSMUSG00000047866	-0.0147363	0.9991105
Mars2 ENSMUSG00000046994	0.0198237	0.9991105
Zfp316 ENSMUSG00000046658	0.0168774	0.9991105
Cdk7 ENSMUSG00000069089	0.011958	0.9991105
Rpl18a ENSMUSG00000045128	0.0144484	0.9991401
Pnpo ENSMUSG00000018659	-0.0196974	0.9991401
Sugct ENSMUSG00000055137	-0.2010764	0.9991401
Cd300lb ENSMUSG00000063193	-0.0451552	0.9996095
Pou2f1 ENSMUSG00000026565	0.0340158	0.9996095
Gm6685 ENSMUSG00000032889	0.128906	0.9996633
Cd93 ENSMUSG00000027435	0.0561126	0.9997863
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Selenoh ENSMUSG00000076437	-0.0128192	1
Asap2 ENSMUSG00000052632	-0.0259255	1
Emilin2 ENSMUSG00000024053	-0.0108231	1
Tuft1 ENSMUSG00000005968	0.0372563	1
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Csnk2a1 ENSMUSG00000074698	0.0135546	1
Pdlim1 ENSMUSG00000055044	0.0110993	1
Zrsr1 ENSMUSG00000044068	-0.0281077	1
Stard7 ENSMUSG00000027367	0.0124998	1
Oraov1 ENSMUSG00000031072	-0.0186889	1
Gnpnat1 ENSMUSG00000037722	0.1401616	1
Ipo9 ENSMUSG00000041879	0.0113826	1
Jak1 ENSMUSG00000028530	0.0120415	1
Synpo2 ENSMUSG00000050315	0.1192576	1
Zfp715 ENSMUSG00000012640	-0.0505077	1
Jag2 ENSMUSG00000002799	0.021038	1
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Arhgef16 ENSMUSG00000029032	-0.1814244	1
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Dhx16 ENSMUSG00000024422	-0.0117345	1
Dph7 ENSMUSG00000026975	-0.0169141	1
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Secisbp2 ENSMUSG00000035139	0.0154003	1
Sin3a ENSMUSG00000042557	0.0119919	1
Evi5l ENSMUSG00000011832	0.0230839	1
Arfgef1 ENSMUSG00000067851	-0.0188062	1
Fam173b ENSMUSG00000039063	-0.021415	1
Nabp2 ENSMUSG00000025374	0.0142949	1
Ntn5 ENSMUSG00000070564	-0.2164131	1
Retreg3 ENSMUSG00000017802	0.0111521	1
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Shld2 ENSMUSG00000041471	-0.0263184	1
Pacs2 ENSMUSG00000021143	-0.0133177	1
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Sptbn1 ENSMUSG00000020315	-0.0131677	1
Frs2 ENSMUSG00000020170	-0.0141162	1
Pmpcb ENSMUSG00000029017	-0.0107391	1
Fzd2 ENSMUSG00000050288	-0.0107248	1
Zscan2 ENSMUSG00000038797	-0.0355871	1
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Vpreb1 ENSMUSG00000059305	-0.1843265	1
Pcdhgc4 ENSMUSG00000023036	0.0688835	1
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Prpf6 ENSMUSG00000002455	-0.0112454	1
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Hsd11b2 ENSMUSG00000031891	-0.1765907	1
Cdk1 ENSMUSG00000019942	0.0101753	1
Sertad3 ENSMUSG00000055200	-0.0223951	1
Zfp563 ENSMUSG00000067424	-0.0914383	1
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Chd6 ENSMUSG00000057133	-0.0197658	1

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Bmp4 ENSMUSG00000021835	0.0441133	1
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Lsp1 ENSMUSG00000018819	-0.0393937	1
Comt ENSMUSG00000000326	-0.0105336	1
Mccc2 ENSMUSG00000021646	0.0172549	1
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Armc2 ENSMUSG00000071324	-0.0761564	1
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Actg1 ENSMUSG00000062825	-0.0089556	1

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Hmgn1 ENSMUSG00000040681	-0.0066189	1
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Phlpp1 ENSMUSG00000044340	0.0113823	1
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Aurka ENSMUSG00000027496	-0.0064531	1
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Ech1 ENSMUSG00000053898	-0.007966	1

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Tvp23a ENSMUSG00000050908	-0.0183	1
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Glis1 ENSMUSG00000034762	0.0125395	1
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Hhat ENSMUSG00000037375	-0.0144769	1
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Snx32 ENSMUSG00000056185	-0.0182101	1
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Cpt1b ENSMUSG00000078937	-0.1518018	1
Rtn4r1 ENSMUSG00000045287	-0.1281925	1
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Smap2 ENSMUSG00000032870	0.000234	1
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