

**Table S1.DEG of genes(pvalue<0.05)**

DEG	logFC	AveExpr	t	P.Value	adj.P.Val	B
Scd4	1.427273	7.257582	4.626628	0.000435	0.027635	0.21156
Fah	1.266371	7.185594	3.841549	0.001925	0.051921	-1.20243
Slc40a1	1.251248	6.333632	6.738685	1.17E-05	0.008528	3.596386
4930577N1	1.228258	4.723585	8.475725	9.28E-07	0.003241	5.859155
Mir27a	1.178806	5.124071	7.887094	2.10E-06	0.004014	5.142487
Nr4a1	1.149699	8.442525	5.10863	0.00018	0.019303	1.043992
Hsph1	1.079	6.079539	3.561368	0.003314	0.0664	-1.71799
Atcayos	1.066067	6.946771	2.81086	0.014327	0.133392	-3.09397
Gm12381	1.040561	5.250261	7.132763	6.35E-06	0.006956	4.149821
Higd1a	1.038411	5.030436	9.624652	2.11E-07	0.003241	7.123807
4930594C1	1.037052	4.279187	4.814842	0.000307	0.024884	0.540386
Paqr6	1.030691	4.846888	7.257269	5.27E-06	0.006504	4.319627
Syt12	1.028697	5.17662	4.2503	0.00088	0.037172	-0.4588
Acot1	1.009257	8.363027	2.607623	0.021212	0.161804	-3.45702
C7	1.007575	7.922245	2.773793	0.015394	0.138105	-3.16069
Nr4a3	0.990872	4.824863	4.230286	0.000914	0.037572	-0.49488
Mir23a	0.981859	4.480269	5.441819	0.0001	0.015433	1.599816
Gm3248	0.948201	4.791158	3.764197	0.002235	0.05562	-1.34445
Try4	0.9387	4.990509	3.635598	0.002868	0.062351	-1.58113
Gm11821	0.934333	4.262414	3.074479	0.008575	0.104714	-2.61461
Mirlet7c-1	0.917772	3.935123	5.628567	7.24E-05	0.014445	1.903882
Gm19522	0.903219	5.978302	5.471092	9.51E-05	0.015433	1.647838
Atf3	0.896281	6.007874	9.208776	3.55E-07	0.003241	6.68552
LOC10263	0.886258	4.954685	7.492005	3.72E-06	0.005475	4.633288
H2-T22	0.878065	4.543281	5.259349	0.000138	0.017535	1.297498
Eil2	0.877231	6.92592	6.791451	1.07E-05	0.008528	3.671911
Pomgnt2	0.876933	4.838206	7.385728	4.35E-06	0.005688	4.492319
Mir30e	0.868327	3.829915	5.104278	0.000182	0.019303	1.036621
Gm13552	0.858175	7.582733	5.791724	5.48E-05	0.012606	2.165033
0610040B1	0.856744	5.013984	7.486846	3.74E-06	0.005475	4.626484
AI987944	0.846887	4.763613	5.709974	6.30E-05	0.013916	2.034712
Csrnp1	0.838515	5.408678	3.708411	0.00249	0.058217	-1.44705
Snord14a	0.83571	4.352588	4.329903	0.000757	0.034093	-0.31569
Hspa1a	0.831489	5.970432	4.335218	0.00075	0.034067	-0.30616
Bdh1	0.827881	7.08077	3.162907	0.007214	0.09563	-2.45241
Gpt	0.825473	5.044084	5.68853	6.53E-05	0.014117	2.00035
Irs2	0.822964	6.245955	5.36099	0.000115	0.016075	1.466527
Adamts9	0.81939	7.050808	8.899665	5.28E-07	0.003241	6.345673
Gm33396	0.815626	6.179135	4.06001	0.001265	0.042312	-0.80333
Lysmd1	0.807081	4.599911	2.220595	0.044126	0.228938	-4.12325
Gm17224	0.803379	5.076006	3.374395	0.004772	0.078726	-2.06294
Ccl2	0.79341	7.315162	6.873431	9.45E-06	0.008104	3.788375
Ehhadh	0.792759	5.70009	3.68666	0.002598	0.059838	-1.48708
Erbp3	0.787265	5.139075	6.131227	3.10E-05	0.011485	2.694798
Mir99a	0.78105	4.302227	4.153562	0.001058	0.039677	-0.63354
Adamts1	0.780056	7.469293	5.358134	0.000116	0.016075	1.461799

Pcdha7	0.777907	4.124061	3.870666	0.001819	0.050594	-1.14906
Mir490	0.77594	4.512075	5.626625	7.26E-05	0.014445	1.900747
Irak2	0.771003	5.838301	6.651344	1.34E-05	0.008594	3.470398
Adgrd1	0.770291	5.099338	3.222645	0.006419	0.090568	-2.34258
Ttc7	0.769904	5.20852	6.259146	2.51E-05	0.010773	2.889589
Btg2	0.764533	6.595483	4.765457	0.000336	0.025389	0.454556
Arntl	0.755168	5.804016	3.545734	0.003416	0.067035	-1.74682
Vmn2r62	0.751	4.000175	3.568461	0.003269	0.066221	-1.7049
Has2	0.738471	4.650974	4.647338	0.000418	0.027213	0.247966
Ifi2712a	0.737532	3.91206	3.538617	0.003464	0.067579	-1.75995
Tacc2	0.726468	10.88862	3.213319	0.006538	0.091305	-2.35973
Nt5dc2	0.717665	7.172797	4.767625	0.000335	0.025389	0.458331
Clpx	0.701402	8.867628	4.823698	0.000302	0.024726	0.555742
Acy3	0.694573	8.203895	5.131864	0.000173	0.019044	1.083291
Bcl6b	0.691867	5.716214	6.45884	1.82E-05	0.009829	3.188407
Rps27	0.690545	5.03912	8.158319	1.43E-06	0.003241	5.47881
Snora81	0.686795	6.113417	5.983554	3.96E-05	0.01211	2.466644
Gfpt2	0.684367	7.986064	2.997296	0.009968	0.112245	-2.7557
H2afz	0.683211	4.649629	3.310485	0.005407	0.08365	-2.18079
Itgam	0.682794	5.467699	2.23999	0.042562	0.225606	-4.09087
Dusp5	0.679647	5.244283	4.672256	0.000399	0.027132	0.291698
Tnfaip6	0.676253	4.058748	2.651427	0.019498	0.155006	-3.37939
2500004CC	0.675917	4.645738	3.83528	0.001948	0.052018	-1.21393
Abracl	0.674367	4.178004	4.385577	0.000682	0.033	-0.216
AF357425	0.672126	5.173954	2.957963	0.010763	0.115727	-2.8274
1810014BC	0.670983	4.568158	5.359436	0.000116	0.016075	1.463954
Tnip2	0.670688	5.222714	4.219122	0.000934	0.037622	-0.51502
Pgam1	0.668104	4.839098	2.256436	0.041277	0.221534	-4.06332
Adam4	0.667823	3.68816	5.137945	0.000171	0.019006	1.093562
H2afx	0.667263	5.683241	4.790142	0.000322	0.025295	0.497499
Rnls	0.66609	4.817908	4.975771	0.000229	0.021582	0.817761
Fscn1	0.665046	5.289391	5.270958	0.000135	0.0175	1.316884
Acta1	0.663398	9.675123	2.73454	0.016609	0.14331	-3.23112
F830016B0	0.663303	5.332791	2.381623	0.032631	0.198536	-3.8509
Gm5617	0.661051	7.131958	5.550581	8.28E-05	0.014851	1.777567
Snord1b	0.660272	7.258196	3.053544	0.008932	0.10681	-2.65293
Urah	0.658447	3.93868	6.481399	1.75E-05	0.00969	3.22176
Thrsp	0.657918	7.782247	8.176177	1.40E-06	0.003241	5.500584
AW011738	0.657498	5.638156	4.223376	0.000926	0.037622	-0.50734
Evi2b	0.65547	4.286964	3.643801	0.002823	0.062162	-1.56602
Pla1a	0.654677	5.627143	3.602597	0.003059	0.063948	-1.64196
Abhd1	0.654439	5.680084	2.305952	0.037626	0.21191	-3.97985
Cdnf	0.653164	6.876224	5.505356	8.96E-05	0.01515	1.70388
Acsn5	0.652642	4.574856	5.646998	7.01E-05	0.014445	1.933594
Gm7334	0.652161	4.888906	6.174038	2.89E-05	0.01118	2.760283
Gm10362	0.647081	5.417942	4.081403	0.001214	0.041512	-0.76444
Gm13889	0.645779	4.902154	4.198792	0.000971	0.038393	-0.55173
Mfap1a	0.644972	6.196184	3.867856	0.001829	0.050728	-1.15421

Olf527	0.642161	3.737259	4.795071	0.000319	0.025191	0.506065
Gnb3	0.641866	4.873505	4.248178	0.000884	0.037172	-0.46262
Ms4a6c	0.639682	4.779477	2.986003	0.01019	0.112865	-2.7763
Dcaf4	0.637105	5.873728	3.960822	0.00153	0.04651	-0.98413
Abat	0.635898	6.47664	5.524105	8.67E-05	0.014927	1.734467
Ighv5-6	0.632914	4.479706	3.097618	0.008196	0.102564	-2.57222
Nckip5d	0.632623	5.01846	6.701201	1.24E-05	0.008594	3.542464
Smco1	0.63246	6.899726	2.923171	0.011517	0.119648	-2.89068
Tmem173	0.629083	4.711188	5.807701	5.33E-05	0.012606	2.190379
Meox2	0.62656	6.211392	5.546434	8.34E-05	0.014851	1.770824
Rps3a1	0.623742	4.255719	6.272957	2.46E-05	0.010717	2.910463
Sh3rf2	0.622945	8.480092	5.442913	9.99E-05	0.015433	1.601613
Asah2	0.622938	6.810818	5.494844	9.12E-05	0.015238	1.686706
Gm12426	0.621562	6.350332	2.483777	0.026882	0.181357	-3.67436
Neb	0.621446	5.134128	4.41239	0.000648	0.032755	-0.16811
Mir32	0.618937	4.243306	6.394062	2.02E-05	0.010037	3.092178
Pnmt	0.618679	4.217624	3.36498	0.004861	0.079559	-2.08031
Vat1l	0.617384	3.756527	5.593434	7.69E-05	0.014851	1.847096
Aldh4a1	0.617255	7.054233	5.267442	0.000136	0.017518	1.311013
Tfb2m	0.617045	4.200612	2.969167	0.01053	0.114616	-2.80699
Armcx5	0.61693	4.719109	4.091952	0.00119	0.041181	-0.74528
Ap3s1	0.615838	3.709612	4.764763	0.000337	0.025389	0.453348
LOC102634	0.615774	3.852076	7.416683	4.15E-06	0.005688	4.533556
Helz2	0.614705	5.209696	4.489235	0.000561	0.030941	-0.0313
Olf525	0.614688	4.264782	3.350555	0.005	0.080606	-2.10691
Gm11592	0.613722	4.287493	6.67956	1.28E-05	0.008594	3.511232
Snord37	0.613708	3.933482	5.53829	8.46E-05	0.014917	1.757574
Acad11	0.613322	9.363302	6.322063	2.27E-05	0.010443	2.984431
Fetub	0.611932	4.517961	3.145696	0.007461	0.097572	-2.48402
Atp6v0c	0.611572	4.697876	2.722636	0.016995	0.144941	-3.25242
Acy1	0.610847	5.117598	3.510887	0.003656	0.069102	-1.81111
Rpl7	0.609734	4.138038	4.235878	0.000905	0.037479	-0.48479
Myl12a	0.607632	6.047306	3.261932	0.005945	0.087504	-2.27025
Slc16a13	0.6065	5.122586	4.397818	0.000666	0.032994	-0.19413
Gm26808	0.60257	4.554947	2.384776	0.032437	0.198032	-3.84549
E0300110c	0.602193	8.12678	5.035318	0.000206	0.020312	0.919472
Plin5	0.599854	9.697062	3.438273	0.004213	0.074422	-1.94509
Ier2	0.598657	4.481132	5.344697	0.000119	0.01612	1.439538
Gda	0.598368	5.862498	3.235974	0.006254	0.089253	-2.31804
LOC101055	0.597782	4.179425	3.154094	0.00734	0.096696	-2.4686
Nphp1	0.597731	5.344764	5.277744	0.000134	0.017404	1.328205
Gclm	0.595737	8.440935	2.716088	0.017212	0.145936	-3.26414
Rogdi	0.595235	6.342865	5.7925	5.47E-05	0.012606	2.166266
Utp14a	0.593492	5.233432	2.704561	0.017599	0.147342	-3.28474
Snora75	0.589732	4.52387	2.996529	0.009983	0.112245	-2.7571
Casp8	0.588928	7.02949	5.255551	0.000139	0.017535	1.291152
Snord42b	0.588637	5.784227	4.641117	0.000423	0.027251	0.237035
Mir29a	0.587972	3.52828	4.648322	0.000418	0.027213	0.249695

Mmab	0.587328	6.958052	4.647292	0.000418	0.027213	0.247886
Zfp943	0.586717	6.164778	5.874592	4.76E-05	0.012162	2.296049
Mir155	0.586626	4.183287	5.370965	0.000113	0.016075	1.48303
LOC102638	0.584405	4.38465	5.845492	5.00E-05	0.012328	2.250168
Snhg12	0.583591	4.404588	4.088852	0.001197	0.041308	-0.75091
B3gnt3	0.583028	5.83725	4.604124	0.000453	0.028131	0.171939
Siae	0.582703	6.749685	6.218545	2.69E-05	0.010947	2.82805
Adck4	0.581177	5.012431	4.642102	0.000422	0.027251	0.238766
Anp32b	0.580499	3.963915	3.140898	0.007531	0.097851	-2.49283
Xlr5c	0.579166	4.047721	3.518078	0.003606	0.068476	-1.79784
Pgap1	0.578674	5.227814	5.545048	8.36E-05	0.014851	1.768569
Lgals3bp	0.578613	8.465739	3.314377	0.005366	0.08353	-2.17362
Marcksl1- $\alpha$	0.577332	4.16334	5.545466	8.36E-05	0.014851	1.76925
Cideb	0.576253	5.953654	2.430017	0.029775	0.191527	-3.7676
Pcdha12	0.573612	3.76345	3.004123	0.009837	0.111523	-2.74325
Mettl18	0.573408	4.19035	5.20467	0.000152	0.017841	1.205921
Ddt	0.572184	6.697876	2.68489	0.01828	0.150181	-3.31984
Sema3f	0.571798	6.198497	3.373137	0.004784	0.078798	-2.06526
Il2rg	0.571594	6.402822	4.449777	0.000604	0.031585	-0.10147
Bckdhb	0.570591	8.464006	5.2924	0.00013	0.017404	1.352633
Mrln	0.569519	3.608409	5.550546	8.28E-05	0.014851	1.777511
Slc7a7	0.568454	4.77023	2.783258	0.015114	0.13728	-3.14367
Mirlet7c-2	0.5684	3.748393	3.523664	0.003567	0.068153	-1.78754
BC025920	0.567983	4.403132	3.256631	0.006007	0.087839	-2.28001
Scn4a	0.567803	5.740607	3.049288	0.009007	0.107004	-2.66072
Gprc5a	0.565999	4.088338	3.807398	0.002056	0.053574	-1.2651
Gng11	0.565375	5.303847	5.172208	0.000161	0.018455	1.151341
90306170C	0.565301	8.324154	5.220279	0.000148	0.017742	1.232109
Mgst1	0.56524	8.955471	3.29353	0.005589	0.084981	-2.21204
Sbk2	0.563226	4.788612	4.12816	0.00111	0.039942	-0.67957
Fbxo31	0.563137	8.997389	3.140476	0.007538	0.097851	-2.4936
Adh1	0.561883	8.281755	6.232201	2.63E-05	0.010947	2.848779
H2-Q5	0.561659	4.680895	4.010482	0.00139	0.044033	-0.89352
Zkscan7	0.561639	5.032284	2.866443	0.012861	0.125887	-2.99356
Trim12c	0.56113	4.106574	2.437111	0.029377	0.189988	-3.75534
A730063M	0.560282	4.975291	4.574714	0.000479	0.02881	0.120063
Tmem71	0.559577	6.176436	3.212955	0.006542	0.091319	-2.3604
Bambi-ps1	0.559231	4.191888	5.019177	0.000212	0.020747	0.891952
Snap29	0.559068	5.729079	4.909397	0.000259	0.02321	0.703795
Slc20a1	0.558811	5.537055	6.646716	1.35E-05	0.008594	3.463688
Gpank1	0.557963	4.213715	5.249458	0.00014	0.017535	1.280965
Snord11	0.557095	6.448632	4.14192	0.001081	0.03972	-0.65463
Fen1	0.555691	4.245456	3.792107	0.002118	0.05449	-1.29317
Msrb1	0.555013	9.335449	3.143424	0.007494	0.097601	-2.48819
Pi16	0.554843	7.793535	2.518444	0.025163	0.175556	-3.61387
D830026I1	0.554315	4.068336	3.634686	0.002874	0.062351	-1.58282
Ltc4s	0.552877	4.809804	4.426912	0.000631	0.032401	-0.14221
Mterf2	0.549981	4.372972	4.715169	0.000369	0.026586	0.366825

Dgat1	0.548408	5.683872	4.911474	0.000258	0.02321	0.707371
Pcx	0.547587	5.317251	3.312139	0.005389	0.08365	-2.17774
Lymr2	0.546848	5.898587	2.931574	0.01133	0.118849	-2.87541
Siglec1	0.544352	4.888387	2.905628	0.011917	0.120825	-2.92253
Akr1b10	0.543932	8.12597	4.272048	0.000845	0.036197	-0.41964
LOC10263f	0.543033	4.334017	4.461297	0.000591	0.031294	-0.08096
Adss	0.542806	5.820068	4.14607	0.001073	0.039677	-0.64711
Pisd	0.541938	5.468723	4.329231	0.000758	0.034093	-0.3169
C1ql1	0.541484	4.04955	4.453661	0.0006	0.031585	-0.09455
Fabp5	0.540961	4.681125	5.44915	9.88E-05	0.015433	1.611855
Vwa3a	0.538269	6.699148	3.29028	0.005625	0.085212	-2.21803
Usp54	0.537625	6.730889	3.483467	0.003857	0.070922	-1.8617
Ripk3	0.537428	4.25789	4.219682	0.000933	0.037622	-0.51401
Pcdhga2	0.537099	4.653559	2.159912	0.049374	0.241574	-4.22376
Obp2a	0.536733	3.498672	4.170515	0.001024	0.039291	-0.60286
Slc10a6	0.535834	6.154148	2.233838	0.043052	0.226909	-4.10116
Fahd1	0.535726	6.21285	4.582204	0.000472	0.028689	0.133285
Slc5a3	0.534844	4.37696	2.840176	0.013534	0.129716	-3.04106
Fbxo44	0.534844	6.744636	3.429184	0.004288	0.075071	-1.96186
Mt2	0.533813	10.72459	3.439569	0.004202	0.074406	-1.9427
Arhgap25	0.533654	4.689028	4.565367	0.000487	0.029068	0.103555
Gm13287	0.533576	4.566593	2.774662	0.015368	0.138056	-3.15913
Bclaf1	0.532966	8.934126	4.832164	0.000298	0.024633	0.570413
Tma7	0.532064	7.812907	3.809452	0.002048	0.053574	-1.26132
Decr2	0.53142	7.167402	3.865911	0.001836	0.05083	-1.15777
Zfp593	0.530996	4.303095	5.704085	6.36E-05	0.013916	2.025282
Gm26534	0.530972	6.409529	3.788318	0.002133	0.054522	-1.30013
Mttp	0.530816	4.999132	4.530851	0.000519	0.029956	0.0425
Hist1h1c	0.53064	6.851746	2.476426	0.027261	0.182517	-3.68715
Snord95	0.530565	4.820296	3.046487	0.009056	0.107259	-2.66584
Rfxank	0.529215	7.590942	3.602608	0.003058	0.063948	-1.64194
Ifitm3	0.528863	9.575304	2.741416	0.016389	0.142362	-3.2188
Grpel1	0.528219	7.418406	3.96932	0.001505	0.046069	-0.96861
Mir5121	0.527605	4.242562	3.326197	0.005243	0.082595	-2.15183
Cldn15	0.526788	5.155972	3.717016	0.002449	0.05782	-1.43121
Sik1	0.526645	8.003394	3.384875	0.004676	0.077965	-2.04361
Pcdhga4	0.526079	4.918638	3.059275	0.008833	0.106286	-2.64245
Spns2	0.526055	6.408698	4.574744	0.000479	0.02881	0.120116
Mcm8	0.524028	4.221324	7.228881	5.49E-06	0.006504	4.281122
Tmem198k	0.523085	5.564602	2.712314	0.017338	0.146604	-3.27088
Snord73a	0.522956	5.305423	3.037039	0.009225	0.108326	-2.68312
Mir1960	0.521233	4.246945	4.134336	0.001097	0.03993	-0.66837
Ubr7	0.520304	6.955953	5.348457	0.000118	0.016101	1.445769
Ugdh	0.519036	6.993242	3.151337	0.007379	0.097013	-2.47366
Ift27	0.518229	5.129232	6.092233	3.31E-05	0.011546	2.634894
4933434E2	0.517402	4.252353	6.544105	1.59E-05	0.009173	3.314041
Cdk2	0.517354	5.532115	3.559163	0.003328	0.066455	-1.72205
Tmco4	0.517103	5.107673	4.302331	0.000798	0.034854	-0.36519

Tlr5	0.516717	5.146542	6.58097	1.50E-05	0.008856	3.367999
Zmat1	0.516127	5.387621	4.553895	0.000498	0.029355	0.083278
Map7	0.513855	6.895437	2.579035	0.022408	0.165796	-3.50749
Stap2	0.512756	6.679555	3.560441	0.00332	0.0664	-1.71969
Snord88c	0.512472	4.948293	2.807184	0.014429	0.13377	-3.1006
Ogdhl	0.511319	8.598921	3.679977	0.002632	0.060128	-1.49939
Iba57	0.510871	3.970849	6.608594	1.43E-05	0.008683	3.408288
Slc29a3	0.509806	5.806335	3.412432	0.004431	0.076357	-1.99277
Mir677	0.509745	4.842601	3.45482	0.004079	0.073139	-1.91456
Folr2	0.508755	6.642724	2.483474	0.026898	0.181412	-3.67489
Mirlet7f-1	0.508586	3.683248	2.995832	0.009997	0.112245	-2.75838
Gm14703	0.50808	3.956758	3.600625	0.00307	0.064033	-1.64559
Plin3	0.507982	9.007897	4.278204	0.000835	0.035907	-0.40856
Eno3	0.507799	11.68977	4.066422	0.001249	0.042022	-0.79167
Pcdha6	0.507687	3.781431	5.551226	8.27E-05	0.014851	1.778616
Lpcat3	0.507229	9.817091	3.223029	0.006415	0.090568	-2.34187
Gpc4	0.506483	5.86343	3.585979	0.003159	0.065281	-1.6726
Pgam2	0.505168	8.859355	4.652336	0.000414	0.027213	0.256744
Gm15952	0.504964	4.603556	2.569231	0.022833	0.167271	-3.52475
A030001D	0.504449	5.022081	4.765035	0.000337	0.025389	0.453821
Gtf3c3	0.50356	5.438629	6.085641	3.34E-05	0.011546	2.624742
Gm16573	0.502594	4.2609	3.061217	0.0088	0.106193	-2.63889
Commd4	0.50177	7.372142	4.128461	0.00111	0.039942	-0.67903
Cdkn1a	0.501044	10.64473	2.208592	0.04512	0.230944	-4.14323
Ift122	0.500858	4.392193	4.161952	0.001041	0.039578	-0.61835
Tubgcp4	0.500692	6.756205	2.656746	0.019299	0.15437	-3.36993
Pdcd10	0.500414	4.42493	3.304874	0.005467	0.083887	-2.19113
Fbn1	0.499844	7.33586	2.398563	0.031603	0.196396	-3.82181
Pnpla7	0.49981	6.201077	3.522078	0.003578	0.068153	-1.79046
Gm16576	0.49919	4.661216	5.01126	0.000215	0.020963	0.87844
Mir3057	0.49865	4.604143	3.678042	0.002641	0.060299	-1.50295
Hist1h1e	0.497711	4.401525	3.28558	0.005677	0.085579	-2.22669
Gm11465	0.497691	3.882228	4.703239	0.000377	0.026949	0.345963
Rbp7	0.497125	5.559597	3.035199	0.009258	0.108326	-2.68648
Stxbp1	0.496514	5.886441	3.885919	0.001767	0.05008	-1.12112
Hmgxb3	0.495789	5.758311	4.210195	0.00095	0.037959	-0.53114
Elmod3	0.494704	8.004188	3.197035	0.006749	0.092901	-2.38969
Elac1	0.493822	5.325036	4.151182	0.001063	0.039677	-0.63785
Pla2g12a	0.493435	6.673638	2.853907	0.013178	0.127671	-3.01624
Tbl1xr1	0.492967	7.818261	3.625885	0.002923	0.062617	-1.59903
2700062CC	0.491984	3.735819	4.112999	0.001143	0.04047	-0.70707
Mir5124a	0.491597	3.719025	4.117726	0.001133	0.040337	-0.69849
Mir28a	0.489851	3.721081	5.0485	0.000201	0.020075	0.941918
Dpyd	0.489502	5.762329	4.244943	0.000889	0.037186	-0.46845
Metrn	0.489336	4.504434	4.831191	0.000298	0.024633	0.568729
Polr3e	0.488939	4.610192	5.490026	9.20E-05	0.015238	1.678829
C2cd2	0.488932	6.42985	4.212972	0.000945	0.037881	-0.52612
Itgb1bp2	0.488539	9.110806	3.862044	0.00185	0.051043	-1.16486

Abcb1b	0.488091	5.035387	3.788352	0.002133	0.054522	-1.30007
Gm3376	0.487074	3.758511	3.437965	0.004215	0.074422	-1.94566
Trpv4	0.486386	4.770537	5.358883	0.000116	0.016075	1.463038
Ctla2b	0.486206	4.210144	2.910635	0.011802	0.120438	-2.91345
Slc25a34	0.485596	8.738729	2.575644	0.022554	0.166143	-3.51346
Fam32a	0.48544	5.849816	2.703707	0.017628	0.14745	-3.28626
Hs6st1	0.485087	6.142446	2.814225	0.014233	0.133007	-3.0879
Tmem143	0.485019	8.587236	3.380135	0.004719	0.078316	-2.05236
Ucp2	0.484768	9.99271	2.951175	0.010906	0.116412	-2.83975
LOC100502	0.483751	4.301283	3.11363	0.007943	0.100753	-2.54286
A730011C1	0.483741	4.366057	4.173189	0.001019	0.039213	-0.59802
Vdr	0.483704	4.564931	3.055298	0.008902	0.106753	-2.64972
9130023H2	0.483507	5.051812	3.668153	0.002693	0.060969	-1.52116
Arhgap23	0.483107	5.32977	4.183385	0.000999	0.038881	-0.57958
Inca1	0.482785	4.10093	4.44613	0.000608	0.031585	-0.10796
Lacc1	0.482564	3.877757	6.361793	2.13E-05	0.010083	3.04399
Athl1	0.482418	4.444497	4.380457	0.000688	0.033	-0.22516
Mgat4a	0.481669	5.20226	5.077849	0.000191	0.019641	0.991805
Nkap	0.481493	5.343285	3.620398	0.002954	0.062839	-1.60915
Angptl3	0.481242	3.867493	4.323348	0.000767	0.034152	-0.32745
Tnfrsf1a	0.480957	7.696045	4.549697	0.000501	0.0294	0.075855
Gm12942	0.480862	3.925815	4.512864	0.000537	0.030405	0.010628
Wwox	0.480387	5.054484	3.722418	0.002424	0.057456	-1.42127
Sh3bgr	0.479987	8.175703	2.180311	0.047548	0.237359	-4.19011
Retnlg	0.479909	3.820521	3.311277	0.005399	0.08365	-2.17933
Smpd2	0.479906	7.31173	6.294328	2.37E-05	0.010535	2.942701
Pcp4l1	0.479438	9.846815	4.734838	0.000356	0.026177	0.401179
Zfp568	0.478414	5.668243	4.393092	0.000672	0.033	-0.20257
Mrps18b	0.477837	8.570624	5.844408	5.01E-05	0.012328	2.248456
Vmp1	0.477559	8.144379	4.607455	0.00045	0.028061	0.177807
Fkbpl	0.476939	4.54983	3.952824	0.001553	0.046803	-0.99874
Psm4	0.476766	8.266215	3.788212	0.002134	0.054522	-1.30033
Slc27a4	0.476223	5.024733	5.254311	0.000139	0.017535	1.289079
Pik3r3	0.476149	5.259884	6.787661	1.08E-05	0.008528	3.6665
Tie1	0.475654	7.911492	4.87882	0.000273	0.023519	0.651088
Zbtb8os	0.475062	3.541486	3.027785	0.009393	0.108962	-2.70003
Mest	0.474731	4.628967	2.403927	0.031283	0.195797	-3.81258
Ifitm2	0.474609	5.388509	2.992525	0.010062	0.112317	-2.76441
Chrm4	0.474491	3.987164	4.895082	0.000265	0.0234	0.679135
Ptp4a1	0.47408	7.619039	2.522896	0.02495	0.174974	-3.60608
Slc25a25	0.474067	4.562391	3.564682	0.003293	0.066281	-1.71187
Gprc5b	0.473809	6.291918	3.770166	0.002209	0.055202	-1.33348
Man2c1	0.47349	5.432546	3.308993	0.005423	0.083689	-2.18354
Gm13139	0.472734	4.16166	3.384747	0.004677	0.077965	-2.04385
C030037D1	0.472582	5.471642	4.890029	0.000268	0.02345	0.670423
Smad1	0.472215	6.118595	6.16933	2.91E-05	0.01118	2.753097
Kctd10	0.471914	5.399694	2.214757	0.044607	0.229592	-4.13298
Lrrc32	0.471646	6.012353	4.91867	0.000254	0.02321	0.719755

Dclre1a	0.471592	5.524533	5.362248	0.000115	0.016075	1.468608
B430319G1	0.470401	4.10426	2.969629	0.010521	0.114563	-2.80615
Ppp2r4	0.469252	6.651293	3.383457	0.004689	0.077965	-2.04623
3110057O1	0.469184	8.90549	4.772922	0.000332	0.025389	0.467551
Pxmp4	0.468845	9.080126	4.281541	0.00083	0.035743	-0.40256
Lig3	0.468072	6.373847	6.986288	7.94E-06	0.007613	3.946968
Gm4117	0.466939	3.706696	3.778194	0.002175	0.054728	-1.31873
E2f3	0.46678	3.979402	2.8232	0.013988	0.131867	-3.07171
Tmed5	0.466688	6.873806	3.022467	0.009491	0.109638	-2.70975
Pcdhgb7	0.466668	6.389421	2.205271	0.045399	0.231751	-4.14875
Igkv9-123	0.466643	3.405603	5.074494	0.000192	0.019641	0.986109
Ccpg1os	0.466485	7.724942	3.600744	0.00307	0.064033	-1.64538
Xrn2	0.466376	6.540968	4.886478	0.00027	0.023519	0.6643
D19Bwg13	0.466017	5.390235	3.793219	0.002113	0.05449	-1.29113
2610528J1	0.465946	3.745668	4.930869	0.000249	0.022985	0.740732
Mir350	0.465057	3.445257	3.887318	0.001762	0.050025	-1.11856
Mthfd1l	0.465027	4.12973	4.197482	0.000973	0.038393	-0.5541
Gm15737	0.464589	4.073278	3.869461	0.001824	0.050655	-1.15127
1110008F1	0.464437	9.235148	3.842426	0.001921	0.051918	-1.20082
Cyb5rl	0.46402	4.60229	3.002087	0.009876	0.111846	-2.74696
Aifm2	0.463813	5.863254	2.79862	0.014671	0.13478	-3.11602
Mir3089	0.463077	3.891695	3.879091	0.00179	0.050342	-1.13362
Ighv1-56	0.462792	4.669547	2.179362	0.047631	0.237443	-4.19168
Zscan29	0.462701	5.635159	4.057088	0.001272	0.042435	-0.80865
Cdc42ep5	0.462521	4.19765	2.641694	0.019867	0.156442	-3.39667
Lxn	0.461372	5.816298	2.604562	0.021337	0.162083	-3.46243
Ocel1	0.461317	5.616726	2.870256	0.012766	0.12534	-2.98666
Rpp38	0.461205	4.549939	3.365339	0.004857	0.079559	-2.07965
Polr2f	0.461019	7.779989	3.39437	0.00459	0.077427	-2.02609
4930539J0	0.4607	4.873254	3.243504	0.006163	0.088614	-2.30418
Pkmyt1	0.460324	4.272317	2.781143	0.015176	0.137442	-3.14748
Gstm6	0.46013	4.03695	2.811759	0.014302	0.133251	-3.09235
Ado	0.460103	5.199615	3.73821	0.00235	0.057063	-1.39223
Cmss1	0.459757	7.90094	3.070152	0.008647	0.10507	-2.62254
Mir134	0.459479	5.01571	2.872785	0.012703	0.124972	-2.98208
Mir103-2	0.459435	4.124412	3.80634	0.00206	0.053574	-1.26704
Rnf170	0.459127	6.618724	3.127607	0.00773	0.098846	-2.51722
Rpl3l	0.459093	9.058648	3.457222	0.00406	0.072925	-1.91013
Mir151	0.458808	3.612135	4.768186	0.000335	0.025389	0.459308
BC029722	0.458313	6.516917	3.116456	0.0079	0.100352	-2.53768
2810474O1	0.458137	7.332421	4.198254	0.000972	0.038393	-0.5527
Mrpl13	0.457404	6.640974	6.424332	1.92E-05	0.009991	3.137228
lce1	0.457079	6.643741	4.14183	0.001082	0.03972	-0.65479
Snhg4	0.457038	5.365726	3.477776	0.0039	0.071348	-1.8722
2900005J1	0.456455	3.731808	6.086493	3.34E-05	0.011546	2.626056
Sfn5os	0.456299	4.28894	4.487545	0.000563	0.03097	-0.0343
Ndufaf3	0.456238	7.523692	4.243569	0.000891	0.037186	-0.47093
Nit1	0.455634	7.638462	4.691886	0.000385	0.027042	0.326093



LOC102637	0.455607	3.846944	3.5743	0.003232	0.065851	-1.69413
Alox5	0.455037	5.752909	2.887387	0.012348	0.122737	-2.95562
Nr2c2ap	0.454993	4.4246	4.851925	0.000287	0.024199	0.604619
Zfp709	0.454637	4.522892	4.018285	0.00137	0.043852	-0.8793
Onecut1	0.454495	4.127638	4.055075	0.001277	0.042541	-0.81231
Hbb-bs	0.454135	3.432309	2.812478	0.014282	0.133224	-3.09105
B430212CC	0.454135	4.699887	3.13518	0.007616	0.09819	-2.50333
A830082K1	0.453579	4.570458	3.536317	0.00348	0.067579	-1.76419
Abcc3	0.453047	4.121299	5.080602	0.00019	0.019641	0.996478
Gm5069	0.452901	5.07606	3.924143	0.001641	0.048299	-1.05116
Ly6c2	0.452596	7.32314	3.040324	0.009166	0.108145	-2.67711
Esd	0.452155	4.80876	3.746487	0.002313	0.056542	-1.37701
Cd248	0.451864	5.541036	3.213453	0.006536	0.091305	-2.35949
Plxna2	0.451694	7.473731	5.086838	0.000188	0.019604	1.00706
Mafb	0.451592	6.376024	3.175335	0.007041	0.094671	-2.42958
Mettl4	0.45145	4.928036	2.65785	0.019258	0.154199	-3.36797
Pmm1	0.451267	5.907274	3.627708	0.002913	0.062595	-1.59567
Atp5c1-ps	0.451106	3.505908	2.658972	0.019217	0.154113	-3.36598
1110059E2	0.450853	5.629398	4.356021	0.000721	0.033465	-0.26889
Chchd6	0.450514	5.115882	2.914872	0.011705	0.120141	-2.90575
5033428I2	0.450192	4.234617	3.773717	0.002194	0.054941	-1.32696
Gm26615	0.449877	3.950036	2.379717	0.032748	0.198877	-3.85417
Tcrg-C1	0.449822	3.670305	2.865986	0.012872	0.125887	-2.99439
2310075C1	0.449602	4.299752	3.28393	0.005695	0.08565	-2.22973
Poln	0.449382	3.831299	5.630487	7.21E-05	0.014445	1.906979
Nln	0.4493	5.732951	4.406242	0.000656	0.032868	-0.17908
Ndufs8	0.449273	10.52249	4.764183	0.000337	0.025389	0.452337
Ptpre	0.449198	5.29247	3.987668	0.001453	0.045198	-0.93512
Fdft1	0.448975	7.681681	3.524244	0.003563	0.068153	-1.78646
Ypel3	0.448758	7.774021	3.255793	0.006017	0.087839	-2.28156
Ifna15	0.448507	4.405568	3.344616	0.005058	0.080917	-2.11787
LOC102637	0.447829	3.630246	2.569686	0.022813	0.167271	-3.52395
Fbxo28	0.447605	6.31153	4.207649	0.000954	0.038082	-0.53573
Nrm	0.447208	4.79473	4.715997	0.000368	0.026586	0.368272
Zfp2	0.44672	4.305717	4.073733	0.001232	0.041863	-0.77838
Mgll	0.446662	7.981144	3.117286	0.007887	0.100255	-2.53616
Ldb2	0.446547	5.729458	4.586471	0.000468	0.028673	0.140814
Polr2l	0.44632	4.718114	3.093959	0.008255	0.102862	-2.57893
Hmga2-ps	0.445964	3.86792	4.451788	0.000602	0.031585	-0.09789
Prpf6	0.445299	7.476881	3.669773	0.002684	0.060939	-1.51818
Mpp1	0.445299	6.04166	3.088731	0.008339	0.103399	-2.58851
Aptx	0.444994	5.547041	3.065884	0.00872	0.105691	-2.63035
Tcaim	0.444553	7.957791	5.702013	6.38E-05	0.013916	2.021963
Anxa2	0.444533	6.526466	3.477122	0.003905	0.071387	-1.87341
Dock8	0.444383	4.685571	3.110183	0.007997	0.101124	-2.54919
Pigv	0.444044	5.491065	3.24592	0.006134	0.088386	-2.29973
Tstd3	0.443868	6.215912	3.272113	0.005828	0.086626	-2.2515
Gm5640	0.443112	4.214476	3.15096	0.007385	0.097033	-2.47436

Mmp14	0.442932	6.911245	2.509802	0.025581	0.176732	-3.62897
Mir107	0.44243	5.231957	2.811629	0.014305	0.133251	-3.09258
9330188PC	0.442288	5.769809	2.321389	0.036551	0.208792	-3.95368
Cad	0.442268	4.598575	3.788225	0.002134	0.054522	-1.3003
Pthr2	0.442071	3.942064	4.200312	0.000968	0.03837	-0.54899
Asap2	0.441901	5.563236	3.488846	0.003817	0.070604	-1.85177
Gm16794	0.440769	4.047207	5.108242	0.000181	0.019303	1.043335
Grhpr	0.440111	8.273115	3.252749	0.006053	0.088068	-2.28716
Junos	0.439443	4.171056	6.036016	3.63E-05	0.011961	2.548099
Esrrb	0.439365	5.150672	3.020098	0.009535	0.109891	-2.71408
Aff3	0.439351	4.151967	3.85911	0.00186	0.051219	-1.17023
Rhno1	0.438985	4.837819	4.987043	0.000225	0.021397	0.837052
Pbld2	0.438839	3.950539	2.721777	0.017024	0.145017	-3.25396
Srp54c	0.438382	7.607049	3.564046	0.003297	0.066309	-1.71305
Ly6a	0.437893	11.80781	4.309814	0.000786	0.034664	-0.35175
Gpx1	0.437859	8.332699	3.239209	0.006215	0.088898	-2.31209
Ndufv3	0.437663	8.401611	3.549985	0.003388	0.066958	-1.73898
C530050E1	0.43649	4.03343	2.453498	0.028477	0.186905	-3.72696
Gm14532	0.436395	3.581804	5.544956	8.36E-05	0.014851	1.76842
Ssna1	0.436354	5.41528	2.356769	0.034197	0.202542	-3.89343
Ascc1	0.435554	5.477868	5.403196	0.000107	0.015832	1.53625
Sgk1	0.435228	7.439131	4.54335	0.000507	0.029679	0.064627
Snord53	0.434848	5.032366	4.499654	0.00055	0.030412	-0.01281
Pcsk7	0.434774	4.994893	4.248245	0.000884	0.037172	-0.4625
Gpr160	0.43394	4.667328	4.109003	0.001152	0.040664	-0.71432
Taf13	0.433472	6.085388	4.006101	0.001402	0.044348	-0.9015
Hdc	0.433394	4.199933	5.061323	0.000196	0.019937	0.96373
Snord92	0.432977	4.046322	3.828257	0.001975	0.052335	-1.22681
Ighv1-22	0.432895	3.304827	4.156001	0.001053	0.039677	-0.62913
Mir3098	0.432804	4.040214	3.146496	0.007449	0.097522	-2.48255
Trp53rka	0.432546	4.103887	3.026309	0.00942	0.109124	-2.70273
Arhgap32	0.431824	5.963796	3.785357	0.002145	0.054522	-1.30557
Klhl33	0.431695	5.117377	3.063807	0.008755	0.106012	-2.63415
Nop9	0.431664	4.926607	3.641218	0.002837	0.062253	-1.57078
Zfp629	0.431661	4.410004	5.951099	4.18E-05	0.01211	2.41603
Aven	0.431241	5.061323	5.587065	7.78E-05	0.014851	1.836781
1700052K1	0.431105	4.799862	3.113128	0.007951	0.1008	-2.54379
Ankrd44	0.430617	5.321591	3.648533	0.002797	0.061834	-1.5573
Mzt2	0.430122	4.387668	4.583343	0.000471	0.028689	0.135295
Bnip3	0.430101	8.2144	3.408933	0.004461	0.076432	-1.99923
8430431K1	0.429847	4.512938	4.390423	0.000676	0.033	-0.20734
2010320M	0.429664	4.660633	4.234826	0.000906	0.037491	-0.48669
Fbxl8	0.429359	4.438312	4.808034	0.000311	0.025115	0.528574
Xpnpep3	0.429111	5.355994	2.397782	0.031649	0.196427	-3.82315
Art1	0.428657	9.650526	2.802812	0.014552	0.134134	-3.10847
Gm14210	0.428396	3.726079	3.956939	0.001541	0.046713	-0.99122
Pxylp1	0.42827	4.368432	3.410932	0.004444	0.076357	-1.99554
Recql5	0.428118	4.309436	3.51578	0.003622	0.068731	-1.80208

Abcb1a	0.428006	7.657362	3.92382	0.001642	0.048299	-1.05175
Ring1	0.427334	5.056115	3.504931	0.003699	0.069541	-1.8221
Gm12505	0.427155	3.720657	5.766338	5.72E-05	0.013041	2.124678
Snora7a	0.427077	4.623857	2.548728	0.023747	0.170986	-3.5608
Fdx1	0.426473	6.549011	4.074745	0.001229	0.041863	-0.77654
Eid3	0.426432	4.218424	3.310922	0.005402	0.08365	-2.17999
Coq4	0.426324	7.315375	3.145336	0.007466	0.097589	-2.48468
Tgfbrap1	0.426297	5.587986	3.725882	0.002407	0.057456	-1.4149
Isoc2a	0.426297	6.035414	3.983018	0.001466	0.045319	-0.94361
Rrp12	0.426127	5.816579	2.95717	0.010779	0.115806	-2.82884
Txn2	0.426053	9.549289	4.74071	0.000352	0.025999	0.411425
Trit1	0.425693	5.009722	3.851463	0.001888	0.051557	-1.18425
Retsat	0.425632	8.398526	3.373263	0.004783	0.078798	-2.06503
Mbd1	0.42513	7.025716	2.307294	0.037531	0.211665	-3.97758
1700057H1	0.425022	3.630968	3.53145	0.003513	0.067803	-1.77317
AU021092	0.424655	5.545498	2.519614	0.025106	0.175323	-3.61182
Tmem220	0.423971	4.314524	3.208277	0.006602	0.091915	-2.36901
D130017N1	0.423967	4.777088	2.541908	0.024059	0.172069	-3.57276
Atpaf1	0.423869	7.749044	3.614446	0.002989	0.063125	-1.62012
Nod1	0.423686	5.458262	4.599437	0.000457	0.028131	0.163679
Fam149a	0.423208	4.353205	4.819234	0.000305	0.024766	0.548004
Olfr47	0.422885	3.876156	2.997052	0.009973	0.112245	-2.75615
Sox17	0.422757	6.627231	3.558508	0.003333	0.066455	-1.72326
Psmc5	0.422458	7.165493	4.064309	0.001254	0.042022	-0.79552
Gm6042	0.422265	3.985953	3.150136	0.007397	0.097138	-2.47587
Gm10635	0.421909	4.075863	3.555227	0.003354	0.066677	-1.72931
Tmem88	0.421482	8.71009	3.865364	0.001838	0.05083	-1.15877
Itga3	0.421394	5.261478	3.725017	0.002411	0.057456	-1.41649
Saa2	0.421329	3.347302	3.842504	0.001921	0.051918	-1.20068
Gm11787	0.420959	4.362335	3.081561	0.008457	0.104078	-2.60164
Ezh1	0.420831	9.255337	3.489609	0.003811	0.070551	-1.85037
Haghl	0.420675	5.149302	3.584828	0.003166	0.065319	-1.67472
Slc35c1	0.42018	4.673469	3.454613	0.004081	0.073139	-1.91494
Parp4	0.41984	7.354614	3.626058	0.002922	0.062617	-1.59872
Fkbp11	0.419437	4.538495	3.867565	0.00183	0.050728	-1.15474
Arf5	0.419162	7.141059	2.577339	0.022481	0.165987	-3.51047
Ssxb10	0.418752	3.799057	2.662097	0.019101	0.15365	-3.36042
LOC102634	0.418308	4.004727	3.811461	0.00204	0.053435	-1.25764
Thrap3	0.417467	8.983473	3.897602	0.001727	0.049617	-1.09973
221040812	0.416504	4.924235	5.089056	0.000187	0.019604	1.010821
Adcy4	0.416389	6.840844	3.903017	0.001709	0.049243	-1.08981
Sult1a1	0.416355	8.51319	2.489044	0.026614	0.180329	-3.66519
Ctla4	0.415466	4.21286	2.522682	0.02496	0.174974	-3.60645
Med8	0.41512	5.813354	2.769517	0.015522	0.138653	-3.16837
Rbm3os	0.4147	3.672845	3.905222	0.001702	0.049196	-1.08578
493040502	0.414697	4.597648	4.068392	0.001244	0.041978	-0.78809
Gm16062	0.414686	3.970364	3.232484	0.006297	0.089626	-2.32447
Gm6642	0.414642	3.858444	2.913389	0.011739	0.120438	-2.90845

Gdf6	0.414456	3.693149	3.731742	0.00238	0.057429	-1.40412
Gm2696	0.413923	4.89316	3.408552	0.004464	0.076436	-1.99993
Pilra	0.413754	3.956226	3.044149	0.009098	0.107647	-2.67012
Caprin2	0.413679	4.843233	2.449498	0.028694	0.187619	-3.73389
Ugt1a7c	0.413517	3.970105	2.228055	0.043518	0.227761	-4.11081
Dpysl4	0.412754	4.798336	3.513066	0.003641	0.069031	-1.80709
Ipp	0.412001	4.5727	3.796428	0.0021	0.054401	-1.28524
Proser3	0.411791	4.73861	2.303316	0.037812	0.212306	-3.98432
Pdzd11	0.411167	7.043474	3.072431	0.008609	0.104809	-2.61836
Mypn	0.411051	9.52063	4.478609	0.000573	0.031216	-0.05018
Atg10	0.410923	7.751848	2.896622	0.012128	0.121573	-2.93888
Stx12	0.410828	7.157074	4.219345	0.000933	0.037622	-0.51462
Gnb4	0.410292	5.864	3.191551	0.006822	0.093296	-2.39977
G530011O	0.410129	4.218167	3.36125	0.004896	0.079707	-2.08719
Snhg1	0.40998	5.425856	2.848857	0.013308	0.12843	-3.02537
Slc22a15	0.409787	4.379372	4.633264	0.000429	0.027437	0.22323
2610044O	0.409329	6.745517	2.70448	0.017602	0.147342	-3.28488
Elk4	0.409132	6.450823	4.913476	0.000257	0.02321	0.710817
C230037L1	0.408617	3.86064	3.200782	0.0067	0.092633	-2.38279
Gtf2h3	0.408162	5.902812	4.466051	0.000586	0.031294	-0.07251
Pex5	0.407315	5.158735	3.232391	0.006298	0.089626	-2.32464
Jund	0.407233	8.855309	4.41738	0.000642	0.032715	-0.15921
Casc4	0.407199	5.767402	2.382318	0.032588	0.198515	-3.84971
Lrrk2	0.407118	6.309516	4.351119	0.000727	0.033614	-0.27767
Slc25a45	0.406908	5.126305	3.486623	0.003834	0.0707	-1.85588
Lnx1	0.406582	6.452477	3.469786	0.003962	0.071814	-1.88694
Ankmy2	0.406487	6.426714	4.191269	0.000985	0.038604	-0.56532
Ficd	0.406019	4.247036	3.366057	0.004851	0.079559	-2.07832
Gm38515	0.405826	3.166048	2.752953	0.016028	0.140682	-3.19811
Atg2a	0.405579	7.184886	3.576887	0.003215	0.06579	-1.68936
Ptk2b	0.405545	5.146783	2.312377	0.037175	0.21051	-3.96897
Pex12	0.405423	6.403558	3.876306	0.0018	0.05036	-1.13873
Rps12l2	0.405392	3.979958	3.255753	0.006017	0.087839	-2.28163
Ephb3	0.40488	4.995246	3.422511	0.004344	0.075672	-1.97418
Mrps31	0.4045	7.55186	4.028703	0.001343	0.04352	-0.86032
Taco1	0.404466	6.740319	3.881574	0.001782	0.050272	-1.12908
Gnl1	0.403503	5.405202	4.391926	0.000674	0.033	-0.20466
Tppp3	0.403476	6.906002	2.29044	0.038735	0.214563	-4.00608
Ablim3	0.403246	8.335249	3.74532	0.002318	0.056614	-1.37915
Frem2	0.403161	4.668703	4.563037	0.000489	0.02909	0.099438
Wdr24	0.402771	5.045787	5.163467	0.000164	0.01849	1.136617
Adat1	0.402615	4.119276	3.129671	0.007698	0.098702	-2.51344
2010012O	0.402479	5.312893	2.3027	0.037856	0.212307	-3.98536
Cyp3a11	0.401906	4.190455	2.952495	0.010878	0.116242	-2.83735
Cpt2	0.401883	10.1775	3.978335	0.001479	0.045559	-0.95215
1700084J1	0.401798	3.919242	3.730202	0.002387	0.057456	-1.40696
Gm15991	0.401693	4.145426	5.212759	0.00015	0.017742	1.219497
Dennd5b	0.401652	6.136373	4.381417	0.000687	0.033	-0.22344

Rpph1	0.401082	9.813497	3.183144	0.006935	0.094011	-2.41522
Cdr2	0.400492	5.124888	2.728289	0.016811	0.144225	-3.24231
Cpeb4	0.39978	8.624044	3.784974	0.002147	0.054522	-1.30627
Prr5	0.399709	4.30687	2.916054	0.011678	0.120141	-2.90361
Vamp8	0.399258	5.894128	2.534825	0.024387	0.17274	-3.58519
2610307P1	0.39876	4.655597	3.421516	0.004353	0.075672	-1.97601
Pigs	0.398634	6.024512	3.209097	0.006592	0.091856	-2.3675
Park2	0.398397	5.178202	3.21444	0.006523	0.09126	-2.35767
Nop16	0.39839	4.504696	3.917368	0.001663	0.048406	-1.06355
Lsm5	0.398146	4.016619	2.82051	0.014061	0.132281	-3.07657
Uchl3	0.398109	3.439696	3.409	0.00446	0.076432	-1.9991
Zswim7	0.398065	6.219377	3.048524	0.00902	0.107057	-2.66211
Ffar3	0.397651	3.554376	2.797394	0.014706	0.134851	-3.11823
Alpk2	0.397583	9.510315	3.527893	0.003537	0.068063	-1.77973
Mir106b	0.397319	3.767426	3.557088	0.003342	0.066539	-1.72588
Adsl	0.396884	7.899126	3.348073	0.005024	0.080753	-2.11149
Brpf3	0.396732	4.745078	2.405014	0.031219	0.195641	-3.81071
Vaultrc5	0.39664	3.61222	4.36607	0.000707	0.033174	-0.25089
Hrc	0.396512	9.701511	3.965832	0.001515	0.046265	-0.97498
Suox	0.396193	6.554216	3.929892	0.001623	0.04804	-1.04065
Mkl1	0.395867	4.947771	4.380007	0.000689	0.033	-0.22596
Armt1	0.395359	4.454108	3.19893	0.006724	0.092763	-2.3862
AI593442	0.395328	3.882397	4.839731	0.000294	0.024495	0.583518
4732416N1	0.394674	4.451569	2.846453	0.01337	0.128731	-3.02972
Col4a2	0.394647	7.045956	2.356804	0.034195	0.202542	-3.89337
Gm15915	0.394084	3.750834	3.73539	0.002363	0.05732	-1.39741
Jak3	0.393907	6.257826	2.838878	0.013568	0.129834	-3.04341
Tpcn1	0.393656	6.886932	3.451365	0.004107	0.073296	-1.92093
Eif2ak2	0.393636	4.795614	2.758578	0.015854	0.13994	-3.18802
Olfr1331	0.393548	3.296058	3.38541	0.004671	0.077965	-2.04262
Mir1929	0.393158	4.025355	5.592745	7.70E-05	0.014851	1.84598
Ncs1	0.393039	4.343085	3.820753	0.002003	0.052873	-1.24058
Cam1	0.39291	4.951175	3.537475	0.003472	0.067579	-1.76206
Hsd17b4	0.392646	9.242872	3.871069	0.001818	0.050594	-1.14832
Slc39a8	0.392612	4.134945	2.879261	0.012544	0.124294	-2.97035
Mrpl42	0.392598	7.813487	2.347243	0.034816	0.204329	-3.90969
Anxa3	0.392524	7.554498	3.956353	0.001543	0.046713	-0.99229
Cd3eap	0.392493	5.034137	3.193181	0.0068	0.093212	-2.39677
Mirlet7a-2	0.392368	3.753557	2.67298	0.018705	0.152222	-3.34105
Gm13427	0.392334	3.947225	5.481607	9.34E-05	0.01527	1.665056
Commd5	0.391971	4.983583	3.637874	0.002856	0.06233	-1.57694
Pfkfb1	0.391893	6.136376	2.168692	0.04858	0.239939	-4.20929
Map4k2	0.391663	6.508657	4.003156	0.00141	0.044486	-0.90687
Nek1	0.391629	5.459486	2.807328	0.014425	0.13377	-3.10033
Mospd2	0.391317	4.998881	3.857141	0.001868	0.051301	-1.17384
Rras	0.391073	10.14768	3.187873	0.006871	0.093339	-2.40653
Gch1	0.390825	4.255715	4.987368	0.000225	0.021397	0.837608
Hist2h2bb	0.390791	3.541424	2.90791	0.011864	0.120536	-2.91839

Mrps30	0.39072	7.33273	5.68137	6.61E-05	0.014168	1.988862
Ankrd49	0.390076	5.762909	2.446163	0.028876	0.188316	-3.73967
4930523CC	0.389906	6.568651	3.062127	0.008784	0.106107	-2.63723
Stra13	0.389838	6.474053	2.55332	0.02354	0.170415	-3.55273
Mir3095	0.389672	3.668876	4.147382	0.00107	0.039677	-0.64473
Pxdn	0.389269	6.142225	3.264057	0.00592	0.087289	-2.26634
Lst1	0.389147	3.45914	3.189455	0.00685	0.093296	-2.40362
Sepsecs	0.388963	5.431624	5.629871	7.22E-05	0.014445	1.905985
Rpp40	0.388926	4.533493	3.9999	0.001419	0.044615	-0.91281
Wdr5	0.388882	5.681746	2.741702	0.01638	0.142333	-3.21828
Wdr18	0.388441	7.197313	3.202215	0.006681	0.092477	-2.38016
Arap2	0.388285	5.798798	3.136768	0.007592	0.09806	-2.50041
Rpusd3	0.388075	5.456733	2.395248	0.031801	0.196662	-3.82751
Tgfbr1	0.388075	5.013048	3.029452	0.009362	0.108872	-2.69698
Ccdc59	0.387838	6.719309	3.004053	0.009838	0.111523	-2.74337
Adig	0.38776	3.747672	4.401852	0.000661	0.032994	-0.18692
Rars2	0.387709	6.179694	4.288164	0.000819	0.035483	-0.39065
Cib1	0.387672	4.388334	4.355449	0.000722	0.033465	-0.26991
Olf727	0.38766	3.543276	2.930438	0.011355	0.118912	-2.87747
Trps1	0.38756	5.823012	3.918563	0.001659	0.048406	-1.06137
Klhl8	0.387288	4.48759	3.575204	0.003226	0.06579	-1.69247
Dera	0.387268	4.639923	3.567103	0.003277	0.066237	-1.70741
Mir181c	0.387255	5.301049	2.383525	0.032514	0.198403	-3.84764
Dach1	0.387139	4.758348	3.653616	0.00277	0.061599	-1.54794
Ighd6-2	0.386912	3.781347	2.37156	0.033257	0.200371	-3.86814
Mir328	0.386895	4.10336	3.535187	0.003487	0.067609	-1.76628
Tpd52l1	0.386807	5.647179	4.099588	0.001172	0.041052	-0.73141
Ttc38	0.386664	6.603814	4.598217	0.000458	0.028131	0.161529
Hes1	0.386631	6.95894	3.145967	0.007457	0.097572	-2.48352
Acaca	0.386549	5.066159	2.686295	0.018231	0.150104	-3.31733
Nek3	0.386549	4.476315	2.97389	0.010434	0.114162	-2.79839
Prrg4	0.386461	4.339389	2.900387	0.012039	0.121279	-2.93204
Btbd8	0.386366	3.884833	3.30315	0.005485	0.084015	-2.19431
Nxpe2	0.386214	3.92089	2.769042	0.015536	0.138681	-3.16923
Hoxa4	0.386	4.16354	3.302669	0.00549	0.084042	-2.1952
Mir128-1	0.385976	3.691849	3.546792	0.003409	0.067035	-1.74487
Zbtb39	0.385366	4.542455	3.443259	0.004172	0.07403	-1.93589
Atp8b1	0.385186	5.973192	2.531255	0.024554	0.173365	-3.59144
Naa38	0.385139	8.416039	3.537347	0.003473	0.067579	-1.76229
1700095JO	0.385076	3.54939	2.266144	0.040536	0.219643	-4.04702
Cox15	0.384983	8.049425	2.646394	0.019688	0.155717	-3.38833
Abcd3	0.384793	9.356459	3.059548	0.008828	0.106281	-2.64195
Igkv4-92	0.384783	4.006682	4.698037	0.000381	0.027042	0.33686
Mir3962	0.384667	3.618929	2.852933	0.013203	0.127714	-3.018
Tmem178	0.384616	3.966071	4.51883	0.000531	0.030354	0.021203
Ppapdc1b	0.384243	6.607812	3.666551	0.002701	0.061038	-1.52411
Sox18	0.384013	7.782827	3.584863	0.003166	0.065319	-1.67466
Rad9b	0.383735	4.972466	2.814911	0.014214	0.132996	-3.08667

Trim41	0.383274	5.145738	3.768798	0.002215	0.055293	-1.33599
Ndst2	0.382968	4.640866	3.414333	0.004414	0.076261	-1.98926
Clec4a3	0.382914	3.907603	3.795694	0.002103	0.054401	-1.28658
C630028M	0.382779	3.712955	4.022403	0.001359	0.043789	-0.87179
Gm10731	0.382646	3.532957	2.73434	0.016615	0.14331	-3.23148
Rnase1	0.382575	3.974898	2.345548	0.034928	0.204726	-3.91258
Slc35b3	0.382138	4.793771	2.973541	0.010441	0.114162	-2.79902
Acss3	0.382124	4.110333	2.715101	0.017245	0.146119	-3.2659
Scarb1	0.381721	7.011824	2.973242	0.010447	0.114162	-2.79957
Gm15413	0.3817	4.034763	2.407808	0.031054	0.195153	-3.8059
Mrpl10	0.381578	7.831577	3.786445	0.002141	0.054522	-1.30357
E330011O2	0.381293	4.107558	4.174393	0.001017	0.039184	-0.59584
Arhgap11a	0.381175	3.872635	5.106697	0.000181	0.019303	1.040718
Vmn1r9	0.380992	4.259181	2.470329	0.02758	0.183667	-3.69775
Oas2	0.380764	6.202426	2.282241	0.039334	0.216376	-4.01992
Sirt7	0.380666	4.878484	2.574935	0.022585	0.166205	-3.51471
Thoc5	0.380575	6.442891	2.265549	0.040581	0.219749	-4.04802
Aoc3	0.380439	5.753208	2.982025	0.01027	0.113179	-2.78356
Ppp1r18	0.379706	5.180901	2.98073	0.010296	0.113402	-2.78592
AU041133	0.379669	3.938777	2.989573	0.01012	0.112712	-2.76979
Sez6l2	0.379567	3.67131	4.185433	0.000996	0.038881	-0.57587
Nipsnap3b	0.37914	4.24735	2.89238	0.012228	0.122088	-2.94657
Kif23	0.379127	3.518746	4.469227	0.000583	0.031294	-0.06686
Cav1	0.37911	9.787211	4.029365	0.001341	0.04352	-0.85911
Cdyl2	0.378445	5.066013	4.115634	0.001137	0.040407	-0.70229
Pcdhb20	0.378242	4.905104	4.696148	0.000382	0.027042	0.333554
Pltp	0.378065	8.849514	2.288453	0.03888	0.214843	-4.00944
Fastkd1	0.377821	6.393012	2.859928	0.013025	0.126784	-3.00535
Zfp108	0.377716	4.335831	2.799449	0.014647	0.134615	-3.11453
Mir1951	0.377313	3.586361	2.815983	0.014185	0.13292	-3.08473
Cmb1	0.376702	6.051958	2.161543	0.049226	0.241323	-4.22107
Serinc5	0.376594	6.493961	4.569072	0.000484	0.029043	0.1101
Slmo1	0.376577	3.854548	4.064721	0.001253	0.042022	-0.79477
2610524HC	0.375732	3.400431	3.271958	0.00583	0.086626	-2.25178
Gm5784	0.375726	4.063107	3.951093	0.001558	0.046903	-1.0019
Mipol1	0.375624	5.050117	3.390561	0.004624	0.077671	-2.03312
Pygo2	0.375465	4.024646	3.512372	0.003646	0.069031	-1.80837
Vps53	0.375427	6.805064	4.534611	0.000516	0.029955	0.049159
Slc31a1	0.375285	6.536275	4.646083	0.000419	0.027213	0.245761
Aspscr1	0.374417	6.970574	2.909255	0.011833	0.120438	-2.91595
Smarca1	0.374274	3.929243	2.589959	0.021943	0.163963	-3.48822
Bcas3	0.374234	7.393009	3.166883	0.007159	0.09532	-2.44511
Ptpn23	0.373901	5.575948	3.32689	0.005236	0.082546	-2.15055
Gm10130	0.373644	3.713596	2.274077	0.039939	0.218218	-4.03367
Smad7	0.373264	5.406684	3.653068	0.002773	0.061599	-1.54895
Mtmt14	0.373183	6.656969	3.128845	0.007711	0.098759	-2.51495
2610002M	0.373159	4.893448	2.390271	0.032102	0.197255	-3.83606
Itfg2	0.372932	6.4031	3.307936	0.005434	0.083749	-2.18549

Bud13	0.372877	4.451901	3.512756	0.003643	0.069031	-1.80766
Tlx1	0.372864	3.981842	3.142438	0.007509	0.097732	-2.49
Atp1b2	0.37264	7.424601	3.011167	0.009702	0.110901	-2.73039
Pold3	0.372565	5.481042	3.193061	0.006802	0.093212	-2.39699
Ly6e	0.372491	10.70447	2.746495	0.016229	0.141663	-3.20969
Rnf208	0.372023	3.887997	3.20743	0.006613	0.091949	-2.37057
Gstt2	0.371969	4.818797	2.441309	0.029144	0.189265	-3.74807
Mavs	0.371847	9.172902	2.720079	0.01708	0.145261	-3.257
Ythdc2	0.371487	5.977898	3.942781	0.001583	0.04735	-1.01709
Cfl1	0.371484	3.599316	5.589944	7.74E-05	0.014851	1.841443
Rasd1	0.371463	4.645042	2.427969	0.029891	0.191862	-3.77114
Hyal2	0.371338	6.28186	3.074656	0.008572	0.104714	-2.61429
Pfdn4	0.371297	5.151143	3.695651	0.002553	0.059142	-1.47053
Syn3	0.371046	4.365699	2.759161	0.015836	0.139922	-3.18697
Cxx1c	0.370924	6.043047	2.693954	0.017963	0.148725	-3.30367
Gm6124	0.370731	3.891827	2.534486	0.024403	0.17274	-3.58578
Alg6	0.37047	4.867527	3.136962	0.00759	0.09806	-2.50005
Dhx30	0.370456	5.206875	5.486607	9.26E-05	0.015238	1.673237
Pcdhga12	0.370429	4.972161	2.407374	0.03108	0.195196	-3.80665
Cmip	0.370287	6.667077	3.425752	0.004317	0.075366	-1.96819
Gm1043	0.370216	4.218392	3.924835	0.001639	0.048299	-1.0499
Ppm1j	0.370138	5.593597	2.153101	0.049998	0.243536	-4.23496
Ogfr	0.369934	6.699615	4.015972	0.001376	0.043852	-0.88351
Vars2	0.36988	5.519901	2.884624	0.012414	0.123152	-2.96063
Gm7616	0.369843	3.950628	3.361217	0.004897	0.079707	-2.08725
Gcnt2	0.369839	6.033878	2.431715	0.029679	0.191194	-3.76466
Nbea	0.369805	6.347826	3.566506	0.003281	0.066241	-1.70851
Oas1b	0.369714	3.952354	3.311666	0.005394	0.08365	-2.17861
Osgepl1	0.369676	8.144474	3.803968	0.00207	0.053761	-1.27139
Arl16	0.369642	4.222907	5.864283	4.84E-05	0.012162	2.27981
Dusp16	0.369642	6.978278	2.642651	0.01983	0.156366	-3.39497
Myof	0.369639	4.90357	2.743728	0.016316	0.142025	-3.21465
Ubox5	0.3695	5.043637	2.640942	0.019896	0.156619	-3.398
BC003331	0.369425	7.192525	2.937462	0.011201	0.118032	-2.8647
Gm1818	0.369276	9.418362	3.717005	0.002449	0.05782	-1.43123
Ell	0.369161	5.443207	2.496832	0.026222	0.179136	-3.65161
Mtrf1	0.36889	4.495968	4.782211	0.000326	0.025389	0.483712
Tspan32	0.36889	3.768429	3.222812	0.006417	0.090568	-2.34227
Usp12	0.368632	5.263418	4.417889	0.000642	0.032715	-0.1583
Il17rd	0.368557	5.16491	3.741049	0.002338	0.056917	-1.38701
Fads1	0.368544	6.144558	3.957295	0.00154	0.046713	-0.99057
Yipf3	0.367933	7.178596	2.627212	0.020428	0.1588	-3.42235
Clic1	0.367852	6.159675	2.957169	0.010779	0.115806	-2.82884
Defa22	0.367845	3.744144	2.155834	0.049747	0.242729	-4.23046
Tmem8b	0.367761	4.764284	2.665516	0.018976	0.153364	-3.35434
Snx11	0.367723	4.633243	4.368688	0.000704	0.033174	-0.24621
Eif2ak1	0.367635	7.159241	4.160252	0.001044	0.039578	-0.62143
6430573F1	0.367608	3.99785	4.192982	0.000981	0.038572	-0.56223



4933431E2	0.367394	3.88967	2.553659	0.023524	0.170415	-3.55214
Gm20153	0.367276	3.43966	5.886553	4.66E-05	0.012162	2.31487
Pgm3	0.367201	4.742845	2.636333	0.020073	0.157169	-3.40618
Mir5107	0.36711	4.445111	3.651369	0.002782	0.061747	-1.55208
Nubp1	0.367011	4.791416	4.07707	0.001224	0.04174	-0.77232
Stmn2	0.366835	5.655585	2.418346	0.030441	0.193269	-3.78774
Chd6	0.366523	7.482415	4.047629	0.001295	0.042778	-0.82586
Ctsl	0.366509	8.981432	3.112814	0.007956	0.10081	-2.54436
Cyb561a3	0.36613	5.937948	3.935627	0.001605	0.047684	-1.03016
Letm2	0.365879	6.642249	2.660261	0.019169	0.153873	-3.36369
Lrrc47	0.365845	5.789693	4.834417	0.000296	0.024633	0.574316
Ighv2-6	0.365774	3.912053	4.326545	0.000762	0.034093	-0.32172
Fmr1	0.365696	6.329495	5.521784	8.71E-05	0.014927	1.730684
Fmo5	0.365594	5.823747	3.169355	0.007124	0.09532	-2.44057
Olfr55	0.36556	3.552572	2.960648	0.010707	0.115473	-2.82251
Bora	0.365363	3.728417	4.31386	0.00078	0.03453	-0.34448
Spopl	0.365295	5.768422	3.576079	0.00322	0.06579	-1.69085
Magohb	0.364939	4.518651	2.25281	0.041557	0.222269	-4.0694
Gm561	0.364902	5.834469	2.874986	0.012649	0.124685	-2.97809
Ubash3b	0.364838	3.960007	4.921465	0.000253	0.023209	0.724562
B4galt3	0.364834	6.314904	4.132159	0.001102	0.03993	-0.67232
G630090E1	0.364821	4.301144	2.592805	0.021824	0.163663	-3.4832
Eif3a	0.364448	9.946221	4.22014	0.000932	0.037622	-0.51318
Mir3061	0.364441	3.601573	3.420051	0.004365	0.075808	-1.97871
1110012L1	0.36441	4.532466	2.334158	0.035684	0.206402	-3.93198
Rab32	0.364336	4.103148	3.363931	0.004871	0.079559	-2.08224
Zfp28	0.364268	4.453374	2.740058	0.016432	0.142576	-3.22123
Rpusd1	0.364173	4.670693	4.2454	0.000888	0.037186	-0.46763
Mir1a-2	0.36402	3.387658	2.493384	0.026395	0.179479	-3.65762
Xylt1	0.36378	4.34815	2.731915	0.016693	0.143696	-3.23582
Shmt1	0.363763	4.883053	2.342541	0.035126	0.205073	-3.9177
Gm15441	0.363491	4.775821	2.355486	0.03428	0.202761	-3.89562
Car2	0.36339	4.44439	3.879892	0.001787	0.050321	-1.13216
4933407L2	0.363363	3.5448	3.399485	0.004544	0.077269	-2.01666
Rcor1	0.363247	6.821435	3.876299	0.0018	0.05036	-1.13874
Al837181	0.363227	7.336399	3.498488	0.003746	0.069861	-1.83398
Try10	0.363088	3.640935	2.341351	0.035205	0.205251	-3.91973
Fosl2	0.363071	6.940325	4.176195	0.001013	0.039168	-0.59258
Zfhx2	0.362942	4.892083	4.436303	0.00062	0.032056	-0.12547
Gstk1	0.362671	10.01402	3.336115	0.005143	0.081722	-2.13354
Tmub2	0.36261	5.493317	2.773512	0.015402	0.13813	-3.16119
Oxct1	0.362522	11.15685	4.481612	0.000569	0.031109	-0.04484
Atp2b4	0.362481	6.902595	4.504278	0.000546	0.030412	-0.0046
Gsdmc2	0.362281	3.279285	4.121285	0.001125	0.040206	-0.69204
Eln	0.362142	6.087972	2.624789	0.020523	0.159044	-3.42664
2700060E0	0.362027	9.077498	3.054651	0.008913	0.106777	-2.65091
Gm38426	0.361894	3.673379	2.924393	0.01149	0.119614	-2.88846
Cd80	0.361159	4.182126	3.659102	0.00274	0.061504	-1.53783

Slc16a12	0.36085	4.19312	2.885514	0.012393	0.123037	-2.95902
Sdccag8	0.360494	5.426992	2.218058	0.044334	0.229137	-4.12748
Tnpo2	0.360406	6.35045	3.260443	0.005962	0.087566	-2.27299
A630072M	0.360379	4.272149	3.487689	0.003826	0.070677	-1.85391
Ptprc	0.360158	4.496974	3.981698	0.001469	0.045378	-0.94602
Itgb1bp1	0.359992	6.085432	3.215099	0.006515	0.091193	-2.35646
Odf2	0.359517	5.279856	3.067006	0.008701	0.105593	-2.6283
Nudt1	0.359497	4.048971	4.178992	0.001008	0.039146	-0.58752
Cbr4	0.359226	7.079841	3.525215	0.003556	0.068153	-1.78467
Rp9	0.359036	8.024896	5.291203	0.00013	0.017404	1.35064
Cnot6	0.358704	6.215322	3.332316	0.005181	0.081936	-2.14055
Gpatch2	0.358402	4.084963	5.459158	9.71E-05	0.015433	1.628277
Hlcs	0.358358	4.662577	3.092117	0.008284	0.103104	-2.5823
Zer1	0.358276	5.686137	4.34098	0.000741	0.033882	-0.29583
Lrrc8c	0.358181	9.049208	3.246176	0.006131	0.088386	-2.29926
Mir3080	0.3581	3.800795	3.002868	0.009861	0.111173	-2.74554
Zfp446	0.357985	4.704546	2.60803	0.021195	0.161779	-3.4563
4833427F1	0.357859	4.484431	3.752095	0.002288	0.056417	-1.3667
Cpm	0.357734	5.041985	2.320311	0.036625	0.209012	-3.95551
Ackr2	0.357137	5.338236	2.442679	0.029068	0.189011	-3.7457
Rab26os	0.35692	4.34594	2.267573	0.040428	0.219295	-4.04461
Sox6os	0.35692	4.785719	3.216591	0.006496	0.091046	-2.35371
Gm14167	0.356818	4.160506	4.675465	0.000397	0.027132	0.297323
Poc1a	0.356615	4.917891	5.629121	7.23E-05	0.014445	1.904776
Parp11	0.356561	4.850318	3.051739	0.008964	0.106878	-2.65623
LOC102640	0.3563	4.194507	3.321494	0.005292	0.083	-2.1605
Snord45b	0.356232	3.939428	2.604062	0.021357	0.16212	-3.46332
Krba1	0.356194	5.200558	2.257783	0.041173	0.221398	-4.06106
Mir5100	0.355984	4.146172	2.529276	0.024647	0.173775	-3.59491
Vmn1r44	0.35596	3.635256	3.353779	0.004968	0.080256	-2.10097
Flnb	0.355896	6.8744	3.397396	0.004563	0.077338	-2.02051
Bcar3	0.355849	5.055203	3.071891	0.008618	0.104858	-2.61935
Tmem38a	0.355564	10.01307	3.686128	0.0026	0.059838	-1.48806
Nlgn3	0.355262	4.016335	2.814085	0.014237	0.133007	-3.08815
Slc7a5	0.355157	4.701016	2.381612	0.032631	0.198536	-3.85092
Men1	0.355116	6.232571	2.442568	0.029074	0.189011	-3.74589
Ckm	0.354777	10.84633	3.562238	0.003308	0.0664	-1.71638
Gm38483	0.354713	3.728219	4.388384	0.000678	0.033	-0.21098
Nav3	0.354662	5.131595	2.455984	0.028342	0.186696	-3.72265
Lpcat4	0.354618	4.43089	2.893876	0.012193	0.121839	-2.94386
Nedd4l	0.354526	7.377133	3.006294	0.009795	0.11129	-2.73928
LOC101055	0.354445	3.57509	2.555761	0.02343	0.170063	-3.54844
Gm17769	0.354435	4.444795	3.172508	0.00708	0.095093	-2.43477
Mir3092	0.354072	4.170444	2.750798	0.016095	0.140934	-3.20198
Mir3961	0.353926	3.953167	3.436217	0.00423	0.074575	-1.94889
Mir709	0.353838	3.683673	2.713257	0.017306	0.146487	-3.2692
Tspan7	0.353773	9.327928	4.819826	0.000305	0.024766	0.549031
Rpl21	0.353366	4.791918	2.485186	0.02681	0.181067	-3.67191

Slc45a4	0.353085	4.616484	2.41537	0.030613	0.193859	-3.79288
Tcf21	0.352987	4.856832	2.563273	0.023095	0.168419	-3.53524
Ankrd52	0.352722	7.48349	3.549122	0.003394	0.066964	-1.74057
Auts2	0.352675	6.040921	3.383932	0.004684	0.077965	-2.04535
Slc7a4	0.352637	3.720264	3.163075	0.007212	0.09563	-2.4521
Gm7854	0.352539	3.851807	3.257875	0.005992	0.087839	-2.27772
Senp1	0.352532	5.982744	2.857762	0.01308	0.126966	-3.00927
Ly6c1	0.352498	5.97345	2.453926	0.028453	0.186834	-3.72622
Stk3	0.352336	6.327209	3.247973	0.006109	0.088386	-2.29596
Gpam	0.352119	10.47163	2.309105	0.037404	0.211235	-3.97451
Appl1	0.351963	6.758013	5.932816	4.32E-05	0.012162	2.387444
Gm10658	0.351939	3.683863	3.880875	0.001784	0.050283	-1.13036
Gm7168	0.351902	3.263353	4.829333	0.000299	0.024635	0.565509
Sele	0.351902	3.937995	3.397589	0.004561	0.077338	-2.02016
Gm15533	0.351725	3.453369	4.044762	0.001302	0.042778	-0.83108
Cdc42se2	0.351603	6.442566	2.89856	0.012082	0.121409	-2.93536
Cers3	0.351437	3.86509	5.019419	0.000212	0.020747	0.892365
Aifm1	0.351142	9.327264	5.426057	0.000103	0.015682	1.573903
Pvrl3	0.351128	4.920356	3.423654	0.004335	0.075607	-1.97207
Pcyt2	0.350993	7.004272	2.745165	0.016271	0.141878	-3.21208
Pde11a	0.350901	4.566564	2.85315	0.013197	0.12771	-3.01761
Ushbp1	0.350505	6.142049	3.919061	0.001657	0.048406	-1.06046
Tbc1d9b	0.350396	7.841539	2.919123	0.011608	0.11989	-2.89803
Wdr55	0.350199	6.019338	2.876783	0.012605	0.124572	-2.97484
Higd1b	0.349786	4.70777	4.470781	0.000581	0.031294	-0.06409
Tst	0.349657	5.637556	3.686653	0.002598	0.059838	-1.48709
Nrg1	0.349633	4.086763	2.823748	0.013973	0.131867	-3.07073
Zkscan5	0.34944	5.095618	2.418918	0.030408	0.193269	-3.78676
Slc25a30	0.349419	5.290107	3.733291	0.002373	0.057429	-1.40127
Timm17b	0.349386	7.490774	2.629607	0.020334	0.158367	-3.41811
Abtb1	0.349311	5.678073	3.029722	0.009357	0.108872	-2.69649
Gm14321	0.349274	4.07755	3.431372	0.00427	0.07495	-1.95783
Gm5785	0.34927	4.925774	2.168149	0.048629	0.239939	-4.21019
Ptges	0.348904	4.120009	3.346566	0.005039	0.080817	-2.11427
Slc22a5	0.348477	5.9703	2.987128	0.010168	0.112746	-2.77425
Ufsp1	0.348406	5.004606	3.079252	0.008495	0.104434	-2.60587
Bcs1l	0.348355	7.045597	2.597851	0.021614	0.162921	-3.47429
Gpr137b	0.348219	4.306108	3.246384	0.006128	0.088386	-2.29888
Pzp	0.348043	3.716176	4.553053	0.000498	0.029355	0.08179
Serpina1b	0.347989	3.564212	2.721586	0.01703	0.145017	-3.2543
Vmn1r238	0.347882	3.362824	3.878482	0.001792	0.050344	-1.13474
Exosc1	0.347758	8.017466	3.145043	0.007471	0.097594	-2.48522
Mrps9	0.347724	7.660353	4.319193	0.000773	0.03436	-0.33491
Mhrt	0.347588	10.92933	3.472483	0.003941	0.071617	-1.88197
Vkorc1l1	0.347582	4.779748	3.133833	0.007636	0.098235	-2.5058
Traj28	0.347283	4.409156	2.84014	0.013535	0.129716	-3.04113
Gm16348	0.346561	4.017926	2.230709	0.043304	0.227419	-4.10638
Sdr42e1	0.346205	3.795661	2.344947	0.034967	0.204726	-3.9136

Slc25a20	0.346191	10.42603	2.777293	0.01529	0.137678	-3.1544
Vamp1	0.346107	4.918659	2.227297	0.043579	0.227889	-4.11208
Galns	0.346029	4.564616	2.752363	0.016046	0.140682	-3.19917
Car4	0.34592	7.562446	3.305914	0.005455	0.083865	-2.18922
Gba2	0.345852	6.10473	2.510504	0.025547	0.176687	-3.62774
Mphosph8	0.345751	6.595076	5.802874	5.37E-05	0.012606	2.182727
As3mt	0.345398	7.902842	3.330569	0.005199	0.082163	-2.14377
H2-DMb2	0.345323	3.672743	4.377582	0.000692	0.033048	-0.2303
Hrsp12	0.34531	5.529588	2.161003	0.049275	0.241398	-4.22196
Gdi2	0.345256	10.04926	2.356691	0.034202	0.202542	-3.89357
Hinfp	0.345181	4.579492	3.6559	0.002757	0.061591	-1.54373
Nmi	0.344991	4.907684	3.895248	0.001735	0.049702	-1.10404
Gm13264	0.344971	3.746379	3.320305	0.005304	0.083	-2.16269
Mir126a	0.344957	3.649367	3.832486	0.001959	0.052101	-1.21906
Nudt16l1	0.344923	5.287533	3.724237	0.002415	0.057456	-1.41793
Fmn11	0.344869	5.333405	2.694523	0.017944	0.148725	-3.30266
Tbca	0.344604	5.018982	2.945835	0.01102	0.116926	-2.84947
Phkb	0.344584	8.075124	3.394849	0.004585	0.077427	-2.02521
Fam206a	0.34455	4.458245	3.54341	0.003432	0.067233	-1.75111
Adra1d	0.344499	4.285856	4.673283	0.000399	0.027132	0.293498
Osbpl6	0.344489	6.136275	2.774536	0.015372	0.138056	-3.15935
Gemin5	0.344408	5.560713	2.186964	0.046966	0.236017	-4.17911
Pa2g4	0.344333	8.876919	2.440628	0.029181	0.189411	-3.74925
Ppp1r3d	0.344191	5.369524	3.181135	0.006962	0.094216	-2.41892
Slc16a14	0.343597	3.974533	3.806308	0.00206	0.053574	-1.2671
Btf3	0.343302	5.016378	2.498444	0.026141	0.178931	-3.6488
Pex10	0.342909	6.733141	3.618303	0.002967	0.062847	-1.61301
Tceb3	0.342896	6.978902	3.148581	0.007419	0.097228	-2.47872
Vmn2r78	0.342818	3.075299	3.058615	0.008844	0.106372	-2.64365
Pus7l	0.342539	4.024704	2.3605	0.033958	0.202007	-3.88706
Ifit2	0.342434	4.231276	3.293066	0.005594	0.085006	-2.21289
Cd46	0.342048	5.148075	2.708905	0.017452	0.147072	-3.27698
Abhd10	0.342004	4.804303	3.741514	0.002335	0.056917	-1.38615
Ccdc60	0.34198	3.80364	5.150093	0.000168	0.018681	1.114068
Tcea2	0.341797	4.303223	3.224346	0.006398	0.090529	-2.33944
Lmcd1	0.341749	7.739885	2.453447	0.028479	0.186905	-3.72705
Pou5f2	0.3414	4.507126	2.909575	0.011826	0.120438	-2.91537
Lap3	0.341295	8.668369	3.773653	0.002195	0.054941	-1.32707
Gmeb2	0.341268	6.356669	2.450812	0.028622	0.187299	-3.73162
Trim23	0.340793	6.48371	2.489357	0.026598	0.18032	-3.66464
C1qtnf3	0.340668	3.48202	3.294459	0.005579	0.084885	-2.21033
Serhl	0.340366	5.79974	2.185941	0.047055	0.236321	-4.1808
Phkg2	0.340088	6.610474	2.423264	0.030158	0.192438	-3.77926
Nol10	0.340037	4.948339	3.19444	0.006783	0.093116	-2.39446
1700030FO	0.339915	3.850947	3.37713	0.004747	0.078462	-2.0579
Fitm1	0.33983	10.61197	2.741819	0.016377	0.142333	-3.21808
Smim8	0.339783	8.149709	4.18419	0.000998	0.038881	-0.57812
Yae1d1	0.339749	6.491001	3.98319	0.001465	0.045319	-0.94329

Slc43a2	0.339661	5.683665	2.185567	0.047088	0.236365	-4.18142
Nnmt	0.339525	3.809818	3.676673	0.002648	0.060349	-1.50547
LOC102634	0.339413	3.543323	3.813194	0.002033	0.053367	-1.25446
Prr13	0.339349	5.561927	2.614615	0.020929	0.160632	-3.44465
Rsg1	0.339186	4.053626	3.971027	0.0015	0.045975	-0.96549
Ift88	0.339152	4.920715	2.164904	0.048921	0.240399	-4.21554
Pcdhb18	0.339094	3.810986	4.795071	0.000319	0.025191	0.506063
Ephb4	0.338962	7.058478	4.560243	0.000492	0.029103	0.0945
Mir1949	0.338949	3.844035	2.861073	0.012996	0.126647	-3.00328
Igf2bp2	0.338898	4.589696	2.620718	0.020685	0.159767	-3.43385
Rpl30	0.338833	3.613671	2.425929	0.030006	0.192176	-3.77466
Traf3ip1	0.338752	4.66726	3.712453	0.002471	0.057893	-1.43961
Tmtc2	0.338677	4.928616	3.305691	0.005458	0.083865	-2.18963
AA415398	0.338586	4.784364	3.231516	0.006309	0.089626	-2.32625
Preb	0.338521	7.622223	2.964593	0.010625	0.114837	-2.81532
Art5	0.33822	4.655763	2.196155	0.046173	0.234107	-4.16388
Fance	0.338216	4.879069	3.377448	0.004744	0.078462	-2.05731
Cog4	0.338128	8.155718	3.634843	0.002873	0.062351	-1.58253
Prmt10	0.338121	4.783969	2.565586	0.022993	0.167873	-3.53117
Pdlim4	0.338067	4.634691	2.705538	0.017566	0.147342	-3.28299
Tas2r135	0.337874	3.768383	3.563154	0.003303	0.066371	-1.71469
Lrrc42	0.337538	4.272122	2.910622	0.011802	0.120438	-2.91347
Cklf	0.337504	3.902069	2.921875	0.011546	0.119801	-2.89303
Pbp2	0.33726	3.655609	2.723243	0.016975	0.144917	-3.25134
Tmem138	0.337219	4.210602	2.508542	0.025643	0.176832	-3.63117
Itga6	0.337002	6.64425	3.024742	0.009449	0.109319	-2.70559
Dennd6b	0.336962	5.960961	2.363646	0.033757	0.201694	-3.88168
Klk8	0.336921	4.158613	3.722499	0.002423	0.057456	-1.42113
Gm13154	0.336882	3.238102	2.967673	0.010561	0.114616	-2.80971
Bche	0.336812	6.118113	3.223622	0.006407	0.090568	-2.34078
P2ry2	0.336792	8.161072	2.386166	0.032352	0.197804	-3.84311
Nudt7	0.33667	8.032104	3.136723	0.007593	0.09806	-2.50049
Spata33	0.336507	5.271606	2.552947	0.023556	0.170415	-3.55339
Nat14	0.336256	4.007728	2.756444	0.01592	0.140291	-3.19185
9230110C1	0.335775	3.630941	3.325613	0.005249	0.082595	-2.1529
Gm31094	0.335744	3.111638	2.599691	0.021537	0.162659	-3.47104
Lemd3	0.334947	6.158847	2.339055	0.035357	0.205562	-3.92364
Nfatc1	0.334873	6.765744	4.461118	0.000592	0.031294	-0.08128
B330016D1	0.334856	4.639921	2.263848	0.04071	0.220202	-4.05088
Cd93	0.334846	7.807397	3.038504	0.009198	0.108254	-2.68044
Ulk3	0.334588	4.981422	4.376685	0.000693	0.033048	-0.2319
Gm10804	0.334539	3.419223	3.782565	0.002157	0.054662	-1.3107
Tbc1d4	0.334384	7.969438	3.254769	0.006029	0.087954	-2.28344
Apeh	0.334235	5.764611	2.777524	0.015283	0.137678	-3.15398
Tceb2	0.334093	9.794976	2.391998	0.031997	0.197039	-3.83309
Sdhaf3	0.334093	5.899143	2.228634	0.043471	0.227717	-4.10985
Gngt2	0.333683	4.324882	2.764525	0.015673	0.139001	-3.17734
Ccdc68	0.333632	4.137845	5.419355	0.000104	0.015682	1.562873

Olf1099	0.333562	3.390333	2.238995	0.042641	0.225838	-4.09254
Neur13	0.333204	5.744564	2.579628	0.022383	0.165796	-3.50644
Trib2	0.33315	6.912669	2.987136	0.010168	0.112746	-2.77424
Gm4787	0.333101	3.583299	2.642157	0.019849	0.156402	-3.39585
Med28	0.332831	5.710361	2.342436	0.035133	0.205073	-3.91788
Bcat2	0.332825	7.509186	3.089601	0.008325	0.103317	-2.58691
Noc3l	0.332655	5.495592	2.777079	0.015296	0.137678	-3.15478
Pkdrej	0.332608	4.494754	2.26617	0.040534	0.219643	-4.04697
Gm13084	0.332548	3.381199	2.53626	0.02432	0.17274	-3.58267
Glod4	0.332404	6.78225	3.256962	0.006003	0.087839	-2.2794
Eml3	0.332289	5.088996	2.579709	0.022379	0.165796	-3.5063
Lpin3	0.332231	4.286314	2.259162	0.041068	0.22123	-4.05874
Cox4i2	0.332106	5.668169	2.91908	0.011609	0.11989	-2.89811
Ret	0.332052	4.901377	2.379461	0.032764	0.198877	-3.8546
Snord19	0.331648	3.41615	4.87349	0.000276	0.023667	0.641887
1110059G1	0.331597	4.997504	3.707637	0.002494	0.058217	-1.44847
Cdipt	0.331577	7.955828	2.692798	0.018003	0.14894	-3.30573
1700022N2	0.331506	3.58714	4.166757	0.001032	0.039457	-0.60966
Mpg	0.331445	4.362825	3.852696	0.001884	0.051557	-1.18199
Dock4	0.331387	6.015791	4.375042	0.000695	0.033055	-0.23484
Gpd1l	0.331285	7.369419	2.413768	0.030706	0.194237	-3.79564
Inhba	0.331234	3.853361	4.073194	0.001233	0.041863	-0.77936
Nxpe4	0.331197	5.570384	2.644474	0.019761	0.156003	-3.39173
Pknnox1	0.331024	4.636052	3.052733	0.008946	0.106876	-2.65442
Spg20	0.330831	7.582245	3.284723	0.005686	0.085618	-2.22827
Tbc1d8	0.330756	4.92612	2.859271	0.013041	0.126825	-3.00654
Isca2	0.33075	8.359385	2.909593	0.011826	0.120438	-2.91534
Rbm12b2	0.330729	6.002767	2.807253	0.014427	0.13377	-3.10047
4930515G1	0.330617	4.157333	2.699849	0.01776	0.147997	-3.29315
Gm10033	0.330522	4.238259	2.717007	0.017181	0.145826	-3.26249
Sptan1	0.330499	9.239143	3.72999	0.002388	0.057456	-1.40734
Adgrg6	0.330451	4.084171	2.392839	0.031946	0.197039	-3.83165
Tbc1d19	0.330336	7.256314	2.770999	0.015477	0.138505	-3.16571
Tll2	0.330282	4.035746	2.345165	0.034953	0.204726	-3.91323
Poli	0.330244	3.843426	3.441823	0.004184	0.074182	-1.93854
Kri1	0.32997	4.681261	2.891907	0.01224	0.122094	-2.94743
Aldh9a1	0.329868	7.910702	2.379024	0.032791	0.198877	-3.85535
Abca3	0.329278	5.118741	3.089392	0.008329	0.103317	-2.5873
Mnd1	0.32918	3.423053	2.561173	0.023188	0.168786	-3.53893
Hsd3b7	0.328979	5.402771	2.942469	0.011092	0.117494	-2.85559
Syde1	0.328824	5.792504	2.966916	0.010577	0.114668	-2.81109
Ccdc159	0.328661	4.981388	2.663304	0.019057	0.153648	-3.35827
Pwp2	0.328474	4.521659	3.506357	0.003689	0.069422	-1.81947
Mrpl28	0.328322	5.42295	2.232034	0.043197	0.227136	-4.10417
Tceanc2	0.328166	4.672384	2.605269	0.021308	0.162042	-3.46119
Map6d1	0.327928	3.723209	3.586528	0.003156	0.065281	-1.67159
S100a10	0.327799	8.600749	3.217556	0.006484	0.091013	-2.35194
Irf6	0.327745	3.819065	3.405393	0.004492	0.076856	-2.00576

Ykt6	0.327718	5.970011	3.035349	0.009255	0.108326	-2.68621
D430042O	0.327488	4.992194	4.651893	0.000415	0.027213	0.255965
Tubgcp2	0.32706	6.511024	2.51244	0.025453	0.176353	-3.62436
A4galt	0.327026	5.072856	3.323742	0.005269	0.082741	-2.15635
Ccl4	0.326969	4.398348	3.682154	0.00262	0.060079	-1.49538
Clybl	0.326769	9.680637	4.652573	0.000414	0.027213	0.25716
Gm3740	0.326667	3.523034	4.978612	0.000228	0.021561	0.822625
Srpx	0.326636	4.298491	3.149049	0.007412	0.097228	-2.47787
Ogfod1	0.326613	7.510312	3.24837	0.006105	0.088386	-2.29522
Adh5	0.326348	8.577888	3.543566	0.003431	0.067233	-1.75082
Ednrb	0.326321	7.477451	2.959084	0.010739	0.115604	-2.82535
Psmc2	0.326294	8.715556	2.925497	0.011465	0.119407	-2.88645
Apip	0.325962	7.583228	3.81927	0.002009	0.052913	-1.24331
5031426D1	0.325385	5.910739	2.635162	0.020118	0.157473	-3.40826
Epdr1	0.325378	6.318614	3.001636	0.009884	0.111846	-2.74778
Tsen2	0.325277	4.498413	2.831215	0.013772	0.131074	-3.05725
Pm20d1	0.325175	5.172028	2.394483	0.031847	0.1968	-3.82882
Vgll4	0.325053	4.918549	3.777396	0.002179	0.054728	-1.32019
Chd3	0.324782	5.10396	3.012169	0.009683	0.110879	-2.72856
Rab42	0.324775	3.694044	4.666339	0.000404	0.027213	0.28132
Adck2	0.324751	4.502545	3.495947	0.003765	0.070031	-1.83867
Zswim4	0.324666	6.051982	3.254483	0.006032	0.087954	-2.28397
Halr1	0.324632	3.737186	3.840507	0.001928	0.051921	-1.20434
Gm13286	0.324531	5.53401	2.671655	0.018753	0.15255	-3.34341
L3mbtl3	0.324514	4.920558	2.906849	0.011889	0.120686	-2.92032
Slc25a37	0.324307	6.486209	2.224468	0.043809	0.228227	-4.1168
Syngap1	0.324127	4.734655	3.140662	0.007535	0.097851	-2.49326
Retnla	0.324049	3.486487	2.368347	0.033459	0.200818	-3.87364
Tmem62	0.324025	4.48379	2.869269	0.01279	0.125432	-2.98844
Fastkd2	0.324009	5.502336	3.551375	0.003379	0.066884	-1.73642
Zkscan6	0.323937	4.147564	5.421696	0.000104	0.015682	1.566726
Agrn	0.323798	6.094191	3.273723	0.00581	0.086535	-2.24853
Sdhb	0.32373	10.93172	4.367651	0.000705	0.033174	-0.24806
Kcnd2	0.323683	7.397356	2.165697	0.04885	0.240237	-4.21423
Clec4g	0.323558	3.638504	3.784953	0.002147	0.054522	-1.30631
Map3k10	0.323459	4.837185	4.211311	0.000948	0.03794	-0.52912
5730420D1	0.323259	4.000171	2.926704	0.011438	0.119327	-2.88426
Ccbl2	0.32314	6.942006	2.540188	0.024138	0.17248	-3.57578
Ralb	0.322944	7.132012	3.496808	0.003758	0.070029	-1.83708
Ndufaf7	0.322903	6.965651	4.32746	0.000761	0.034093	-0.32008
Pdhb	0.322862	11.37595	4.550439	0.000501	0.0294	0.077167
Ddx19b	0.322829	4.552528	2.392612	0.03196	0.197039	-3.83204
Zfp346	0.322767	5.826423	2.27224	0.040077	0.218537	-4.03676
Adnp2	0.322673	4.839559	2.630716	0.020291	0.158179	-3.41614
lppk	0.322601	4.387049	3.174012	0.00706	0.094865	-2.43201
Zfp956	0.322578	3.818759	2.5941	0.02177	0.163454	-3.48091
Psme4	0.322578	10.41943	3.565851	0.003285	0.066241	-1.70972
Tfb1m	0.322388	6.205465	2.758648	0.015852	0.13994	-3.18789

Flrt2	0.322157	4.372016	2.685227	0.018268	0.150181	-3.31924
Psmf1	0.321845	7.710402	2.396853	0.031705	0.196505	-3.82475
Mir453	0.321696	3.582642	3.324394	0.005262	0.082688	-2.15515
Gm26908	0.321669	4.220567	2.814331	0.01423	0.133007	-3.08771
Rbbp6	0.321343	7.095242	3.917594	0.001662	0.048406	-1.06314
Klhdc3	0.321289	9.309082	3.432117	0.004264	0.07495	-1.95645
2410002F2	0.321275	5.612623	2.707438	0.017502	0.14724	-3.2796
Tle4	0.321228	5.356903	3.748662	0.002303	0.056471	-1.37301
Unc119b	0.321208	5.944458	3.266905	0.005888	0.087093	-2.26109
N4bp2	0.321187	5.358022	3.344408	0.00506	0.080917	-2.11825
4930538K1	0.321038	3.906938	2.597685	0.02162	0.162923	-3.47458
Alad	0.321031	7.121779	2.165787	0.048841	0.240237	-4.21408
Zfp703	0.321014	4.544134	3.087872	0.008353	0.103469	-2.59008
Myod1	0.320953	4.05924	4.072672	0.001234	0.041863	-0.78031
Tanc2	0.320889	5.001102	2.568082	0.022883	0.167417	-3.52677
Pgap2	0.320821	6.971771	3.18952	0.006849	0.093296	-2.4035
2310035C2	0.320713	6.379269	5.233826	0.000144	0.017592	1.254808
Gtf2h1	0.320665	6.441094	2.176866	0.047852	0.238146	-4.1958
Nabp1	0.320509	7.460873	4.323391	0.000767	0.034152	-0.32738
Mtx3	0.320343	4.40122	3.39969	0.004542	0.077269	-2.01628
2210016F1	0.320163	6.860277	3.749454	0.0023	0.05644	-1.37155
Gm15328	0.320146	4.135659	3.335746	0.005147	0.081722	-2.13422
Sfmbt1	0.319878	5.673286	2.983538	0.010239	0.113033	-2.7808
E530011L2	0.319695	4.597999	3.576717	0.003216	0.06579	-1.68968
Grap	0.319661	5.508626	2.277568	0.03968	0.21727	-4.02779
Abra	0.318929	9.317993	2.910266	0.01181	0.120438	-2.91412
Endog	0.318882	6.283139	2.207582	0.045205	0.231216	-4.14491
Gm15323	0.318858	3.673589	2.897513	0.012107	0.121505	-2.93726
Zfp558	0.318814	3.779768	2.844971	0.013409	0.128952	-3.0324
Nlrp1c-ps	0.318719	3.447038	4.892534	0.000267	0.023425	0.674744
Sox2	0.318397	3.535582	2.574797	0.022591	0.166205	-3.51495
Etohd2	0.318298	4.105682	4.302405	0.000798	0.034854	-0.36505
Fam49b	0.318244	5.918725	2.246353	0.04206	0.223902	-4.08022
1700112J1	0.318227	3.952164	3.369736	0.004816	0.07913	-2.07154
Olfir631	0.317842	3.323472	2.897751	0.012101	0.121502	-2.93683
Hr	0.317681	4.571927	2.721905	0.017019	0.145017	-3.25373
Ano1	0.317613	5.285923	3.225	0.00639	0.090516	-2.33824
Prkch	0.317593	7.336531	3.423392	0.004337	0.075607	-1.97255
Tmem19	0.317342	5.356588	4.09514	0.001182	0.041181	-0.73949
Psm8	0.317213	8.630612	2.958952	0.010742	0.115604	-2.8256
Prkar1b	0.317213	4.373695	2.687347	0.018194	0.150016	-3.31546
Gm694	0.317183	3.670229	3.189786	0.006845	0.093296	-2.40301
5530601HC	0.317166	4.173557	3.197195	0.006747	0.092901	-2.38939
Chd7	0.316983	6.000451	2.337483	0.035462	0.205833	-3.92632
Cox7a1	0.316962	12.11714	3.27867	0.005754	0.086188	-2.23942
Pbxip1	0.316888	6.735755	3.363053	0.004879	0.079595	-2.08386
B930095G1	0.316461	4.643419	2.548049	0.023778	0.170986	-3.56199
Trmt13	0.316281	3.838398	3.575347	0.003225	0.06579	-1.6922



Helq	0.316071	4.553543	2.894853	0.01217	0.121746	-2.94208
Ostf1	0.315769	7.725755	3.426677	0.004309	0.075283	-1.96649
Taf4b	0.315494	4.248974	3.404974	0.004496	0.07686	-2.00653
Zfp595	0.315487	3.841988	2.991866	0.010074	0.11236	-2.76561
Calcr	0.315467	3.676207	2.807449	0.014422	0.13377	-3.10012
Eif1b	0.315396	7.937158	2.88977	0.012291	0.122369	-2.9513
Gfm1	0.315375	9.123834	4.68626	0.000389	0.027042	0.31624
Clec2f	0.315264	3.182046	2.679211	0.018482	0.151285	-3.32996
Srrd	0.315165	4.879425	3.444934	0.004158	0.073894	-1.9328
Dffa	0.315131	6.669447	2.520485	0.025065	0.175323	-3.6103
Mtrr	0.314948	5.916751	2.822957	0.013994	0.131879	-3.07215
Gtf2ird1	0.314884	4.67974	2.51131	0.025508	0.176537	-3.62634
LOC10263	0.314863	3.84249	3.907367	0.001695	0.049117	-1.08185
Gm12216	0.314657	4.205505	2.870625	0.012757	0.125301	-2.98599
1700123L1	0.314375	3.810182	4.245441	0.000888	0.037186	-0.46755
Tnks	0.314372	7.59908	3.231546	0.006309	0.089626	-2.32619
A330035P1	0.314199	3.550898	3.666128	0.002703	0.061038	-1.52489
Zfp939	0.314165	4.574075	2.815315	0.014203	0.132992	-3.08594
Vsig10	0.31405	4.260703	2.358705	0.034073	0.202309	-3.89013
6030443J0	0.314012	4.133325	2.667747	0.018895	0.153053	-3.35037
Scimp	0.314002	3.600279	2.195171	0.046258	0.234242	-4.16551
LnX2	0.313931	6.670475	2.579951	0.022369	0.165796	-3.50587
Zfp286	0.313863	3.61437	4.500292	0.00055	0.030412	-0.01167
Adipor2	0.313741	8.146291	2.67359	0.018683	0.152222	-3.33997
6030498E0	0.313707	3.413283	3.074115	0.008581	0.104721	-2.61528
Pycr2	0.313449	5.044583	2.82328	0.013985	0.131867	-3.07157
Wipi2	0.313416	6.162567	2.454968	0.028397	0.186772	-3.72441
Bbs10	0.313287	3.963691	3.47865	0.003894	0.071332	-1.87059
Ctbs	0.313277	4.993878	2.743726	0.016316	0.142025	-3.21466
Cep152	0.313253	4.071503	4.384188	0.000684	0.033	-0.21849
Rom1	0.3131	4.126033	2.752694	0.016036	0.140682	-3.19858
Mir679	0.313015	3.896498	3.386318	0.004662	0.077948	-2.04095
Olfr531	0.312968	3.540029	2.640265	0.019922	0.156691	-3.39921
Sell	0.312653	3.7456	3.053733	0.008929	0.10681	-2.65259
Skil	0.312507	5.19971	2.355548	0.034276	0.202761	-3.89552
Cnga2	0.312429	3.458542	3.229242	0.006337	0.089974	-2.33043
lsg20	0.312425	6.077437	2.575505	0.02256	0.166143	-3.5137
Lemd2	0.312412	5.662716	3.034076	0.009278	0.108479	-2.68853
Uimc1	0.31212	5.092584	3.389751	0.004631	0.077689	-2.03462
Zfp109	0.3121	3.910444	3.492513	0.00379	0.07031	-1.84501
Thns12	0.311642	4.512429	3.77968	0.002169	0.05469	-1.316
Pmvk	0.311476	5.280738	2.15767	0.049579	0.242188	-4.22744
Mir3968	0.311428	3.970737	3.252619	0.006054	0.088068	-2.2874
Pecr	0.311327	4.014713	3.216501	0.006497	0.091046	-2.35388
Rhbdf1	0.311259	6.26826	2.678652	0.018501	0.151298	-3.33095
Trmt11	0.311117	4.808879	2.539456	0.024172	0.172575	-3.57707
Polh	0.311018	4.634025	2.673253	0.018695	0.152222	-3.34057
Fgf1	0.311008	8.930895	2.242847	0.042336	0.224826	-4.08609

Clec4a2	0.310879	3.494714	3.580846	0.003191	0.065718	-1.68206
Sh2d1b2	0.310623	3.336545	2.988706	0.010137	0.112746	-2.77137
1810055GC	0.310567	6.766286	2.167462	0.048691	0.239978	-4.21132
Fam35a	0.310527	4.248606	2.558118	0.023324	0.169495	-3.5443
Arrdc4	0.310506	6.072734	3.385008	0.004674	0.077965	-2.04337
Cgnl1	0.310459	6.08394	2.356413	0.03422	0.2026	-3.89404
Ddx60	0.310272	4.048854	2.650303	0.01954	0.155006	-3.38138
Pcbd1	0.310228	3.793623	4.471171	0.000581	0.031294	-0.0634
Avpi1	0.31016	5.288544	3.715457	0.002456	0.057884	-1.43408
4930528A1	0.310033	3.627673	2.778974	0.01524	0.137673	-3.15138
Nop2	0.309923	6.695163	3.039462	0.009181	0.108196	-2.67869
Enho	0.309496	5.320926	2.908903	0.011842	0.120438	-2.91659
Ldlrap1	0.309462	6.34809	2.230674	0.043307	0.227419	-4.10644
PrkcsH	0.309408	7.072184	3.179314	0.006987	0.09438	-2.42226
Klhl22	0.309245	5.5389	2.669512	0.01883	0.152672	-3.34723
Bace1	0.309082	6.080811	2.284631	0.039159	0.215753	-4.01589
Kctd18	0.309028	4.467665	2.764245	0.015681	0.139027	-3.17784
Aga	0.30877	6.008714	2.905663	0.011916	0.120825	-2.92247
Dscr3	0.308675	6.468628	3.531958	0.003509	0.067788	-1.77223
Tecr	0.308553	10.79751	3.211909	0.006556	0.091455	-2.36233
Gm15760	0.308539	4.477024	3.08737	0.008362	0.103502	-2.591
2410141KC	0.308421	3.179764	3.071522	0.008624	0.104858	-2.62003
Gm614	0.30836	3.573695	3.554192	0.003361	0.066677	-1.73122
Slc25a17	0.308275	6.341963	2.983966	0.010231	0.113027	-2.78002
Ube4b	0.308187	8.708781	3.838837	0.001935	0.051921	-1.20741
Ptcd1	0.308072	6.202701	2.289097	0.038833	0.21472	-4.00835
Frk	0.307549	4.192268	2.61424	0.020944	0.160665	-3.44532
Prdm10	0.307468	5.142015	2.726187	0.016879	0.144492	-3.24607
Ran	0.307421	6.302148	2.275697	0.039819	0.217702	-4.03094
Hectd3	0.3074	5.642632	2.59932	0.021553	0.162659	-3.4717
Rinl	0.307373	4.231893	3.285735	0.005675	0.085579	-2.2264
Fbxo18	0.306722	6.998901	4.005173	0.001405	0.044371	-0.9032
Nusap1	0.306569	3.810511	3.875729	0.001802	0.05036	-1.13978
Tmem67	0.306471	5.194088	2.570429	0.022781	0.167256	-3.52264
Epg5	0.306261	5.28578	3.725499	0.002409	0.057456	-1.41561
Plekhg5	0.306071	6.133341	3.59888	0.003081	0.064197	-1.64881
Mapk13	0.305796	3.696762	3.393843	0.004594	0.077427	-2.02707
Scgb2b11	0.305656	3.153153	2.41663	0.03054	0.19358	-3.7907
Ptgfrn	0.305562	5.813263	2.552735	0.023566	0.170415	-3.55376
Tbc1d12	0.305162	5.808668	2.634944	0.020127	0.15749	-3.40864
Ifi35	0.305155	6.382884	3.143853	0.007488	0.097601	-2.48741
Gm14147	0.30503	3.297372	2.767805	0.015573	0.138715	-3.17145
Naa25	0.304952	7.741831	2.607596	0.021213	0.161804	-3.45707
2310014FO	0.304847	3.909666	3.68465	0.002608	0.059916	-1.49078
Dgkq	0.304823	4.373115	3.455881	0.004071	0.073063	-1.9126
A330041J2	0.304732	3.562359	3.278904	0.005751	0.086188	-2.23899
Casp6	0.304328	5.43846	2.349199	0.034689	0.203915	-3.90635
Zfp2	0.303935	7.058217	3.082342	0.008444	0.104074	-2.60021

Pcdhb22	0.303599	3.861679	4.304465	0.000794	0.034854	-0.36135
Mtap7d3	0.303507	3.900452	3.659741	0.002737	0.061504	-1.53665
B4galt5	0.303474	5.891483	3.365754	0.004854	0.079559	-2.07888
492152810	0.30329	3.826124	2.342279	0.035143	0.205085	-3.91815
Wdr83	0.303277	6.697537	4.332392	0.000754	0.034093	-0.31123
Yipf5	0.303141	7.064657	2.442414	0.029082	0.189017	-3.74616
Xpa	0.303128	5.927117	2.6394	0.019955	0.156691	-3.40074
Kifap3	0.303107	6.758325	3.167867	0.007145	0.09532	-2.4433
Myo1g	0.302955	3.954619	2.53669	0.0243	0.17274	-3.58191
Pik3r4	0.302897	5.890218	2.382683	0.032566	0.19849	-3.84908
Susd2	0.302775	4.819194	2.606457	0.021259	0.16197	-3.45908
Smndc1	0.302626	6.713325	3.099598	0.008164	0.102306	-2.56859
Igkv1-122	0.302522	3.347143	3.246063	0.006132	0.088386	-2.29947
Usp18	0.30245	4.650248	2.174517	0.04806	0.238735	-4.19968
4933402Nz	0.302394	3.162834	3.714822	0.002459	0.057893	-1.43525
Dse	0.302372	4.641095	2.599953	0.021527	0.162659	-3.47058
Sp140	0.302107	3.541597	3.01735	0.009586	0.110277	-2.71909
Rtl1	0.301941	4.078135	2.738365	0.016486	0.142794	-3.22427
Car15	0.301931	4.268804	5.041575	0.000204	0.02023	0.93013
Tmod3	0.30188	8.223368	2.768539	0.015551	0.138715	-3.17013
Hoxa6	0.301826	3.814487	2.947295	0.010989	0.116796	-2.84681
Cyb5d2	0.301602	6.807539	2.933788	0.011282	0.118588	-2.87138
Tmem116	0.301534	5.443085	2.463001	0.027967	0.185039	-3.71048
Tgfb1i1	0.301493	6.235382	3.12704	0.007738	0.098854	-2.51826
Gm10349	0.301378	9.716444	2.494604	0.026334	0.179209	-3.6555
Gm4349	0.301363	3.240037	2.494888	0.026319	0.179203	-3.655
2410137M	0.301331	3.747915	3.716511	0.002451	0.057821	-1.43214
Pnpt1	0.301317	5.920678	2.502835	0.025923	0.178004	-3.64114
Vwa7	0.301256	4.529697	2.234804	0.042975	0.22678	-4.09954
Cst6	0.300971	3.644626	3.987829	0.001452	0.045198	-0.93483
Ubp1l	0.300913	3.484116	3.25407	0.006037	0.087973	-2.28473
Tpm4	0.300883	6.600962	2.378764	0.032807	0.198877	-3.8558
Dnaic2	0.300764	3.873283	3.279426	0.005745	0.086188	-2.23803
Slc37a2	0.300717	4.373747	2.298212	0.038175	0.21282	-3.99295
Sdr39u1	0.300713	8.499478	2.560044	0.023238	0.169045	-3.54091
St3gal3	0.30049	8.216651	2.665538	0.018975	0.153364	-3.3543
Gm13840	0.300476	3.558034	2.268183	0.040382	0.219225	-4.04359
Gstt3	0.300439	4.527498	2.670744	0.018786	0.152621	-3.34504
E130308A1	0.300296	4.319175	2.548768	0.023745	0.170986	-3.56072
Wars	0.300232	7.31369	2.684563	0.018292	0.150226	-3.32042
493052611	0.300103	4.553209	3.059672	0.008826	0.106281	-2.64172
Epb4.1	0.299689	8.765405	3.560768	0.003318	0.0664	-1.71909
Mir5119	0.299669	3.434096	3.822025	0.001999	0.052809	-1.23825
Zfyve9	0.299371	6.545193	2.675387	0.018618	0.152048	-3.33677
Slc22a1	0.29931	4.151608	2.759697	0.01582	0.139857	-3.18601
Rmdn3	0.299272	3.881326	3.967529	0.00151	0.046171	-0.97188
Zfp748	0.299208	4.46894	3.501955	0.003721	0.069651	-1.82759
Mir1966	0.299205	3.310816	3.160101	0.007254	0.095923	-2.45757

Pdcd11	0.299154	6.026693	3.167215	0.007154	0.09532	-2.4445
Ptpn4	0.299032	7.229594	3.010572	0.009714	0.110923	-2.73147
Selenbp1	0.298991	8.248454	3.503939	0.003706	0.069552	-1.82393
Lrrc8b	0.298882	4.739285	3.018774	0.009559	0.110073	-2.71649
Clock	0.298882	9.446642	3.335542	0.005149	0.081722	-2.1346
Gys1	0.298815	9.679355	2.362067	0.033858	0.201798	-3.88438
Tas2r143	0.29872	3.814562	2.7998	0.014637	0.134615	-3.1139
Mb21d1	0.298676	3.454595	3.975891	0.001486	0.045603	-0.95661
Dus2	0.298557	4.857286	2.864049	0.012921	0.126079	-2.99789
Mad2l1	0.298472	4.222315	2.343945	0.035033	0.204924	-3.91531
Ly6g	0.298316	3.423165	2.770124	0.015504	0.13859	-3.16728
Il18bp	0.298306	6.234439	2.155872	0.049743	0.242729	-4.2304
Rap1gds1	0.298225	5.81822	2.554329	0.023494	0.170331	-3.55096
Ptprf	0.298157	4.96288	3.838057	0.001938	0.051921	-1.20884
Cdkn1c	0.298109	5.03675	3.182805	0.006939	0.094011	-2.41585
Jagn1	0.297852	5.237305	2.511114	0.025517	0.176554	-3.62668
Olfr976	0.29784	3.327224	2.382642	0.032568	0.19849	-3.84915
Vars	0.297465	5.08021	2.442733	0.029065	0.189011	-3.74561
Ap4e1	0.297238	4.782571	2.474093	0.027383	0.182944	-3.69121
Oraov1	0.297221	4.175466	3.266417	0.005893	0.087101	-2.26199
Crybg3	0.297201	8.631022	3.416356	0.004397	0.076119	-1.98553
Gm15417	0.297133	4.146776	3.828633	0.001973	0.052335	-1.22613
Acer3	0.29698	4.335013	4.046653	0.001297	0.042778	-0.82764
Syce2	0.296831	3.722878	4.069338	0.001242	0.041978	-0.78637
Ccdc57	0.296577	4.180189	3.392408	0.004607	0.077496	-2.02971
Prpf38a	0.296414	6.277764	2.496475	0.02624	0.179203	-3.65223
Mok	0.296241	3.664396	3.260357	0.005963	0.087566	-2.27315
5830454E0	0.296071	4.192876	4.032086	0.001334	0.043465	-0.85416
Ptcd3	0.296	8.543182	2.967221	0.01057	0.11465	-2.81054
Mrps5	0.295987	7.553104	2.535321	0.024364	0.17274	-3.58432
Wdr35	0.295905	5.509443	2.709991	0.017416	0.146814	-3.27504
Klf2	0.29581	6.775835	2.547902	0.023785	0.170986	-3.56225
LOC102636	0.295685	3.367325	2.358538	0.034084	0.20232	-3.89041
Gm4961	0.295468	3.472685	5.414164	0.000105	0.01573	1.554325
Sparc	0.295383	10.35179	2.928136	0.011406	0.119145	-2.88165
Pigyl	0.295295	7.900252	4.486193	0.000565	0.03098	-0.03671
Slc15a3	0.295241	3.728756	2.996491	0.009984	0.112245	-2.75717
Gm11517	0.295139	3.497911	2.532878	0.024478	0.173074	-3.5886
Ppib	0.294413	7.685618	2.656177	0.01932	0.154459	-3.37095
Adgra3	0.294237	5.302392	2.813481	0.014254	0.133065	-3.08924
Pgbd1	0.294111	4.007245	3.303411	0.005482	0.084015	-2.19383
Mir1931	0.293793	3.908859	2.903788	0.01196	0.121061	-2.92587
Catsper3	0.293723	3.44984	3.334638	0.005158	0.081722	-2.13626
Mir423	0.293471	3.83627	2.221865	0.044022	0.228759	-4.12114
Dcaf10	0.29341	6.489478	2.537425	0.024266	0.17274	-3.58063
BC035044	0.293406	3.264542	3.205051	0.006644	0.092171	-2.37494
Rnmt	0.292908	4.702281	2.916208	0.011674	0.120141	-2.90333
Mettl13	0.292779	4.215237	3.618764	0.002964	0.062847	-1.61216

Bsdc1	0.292657	6.890795	4.340061	0.000743	0.033882	-0.29748
Gm11665	0.292582	3.650848	2.686961	0.018207	0.150078	-3.31614
Agpat2	0.292487	9.039147	2.412994	0.030751	0.194472	-3.79697
Gm9903	0.292433	4.010963	3.203325	0.006667	0.092328	-2.37812
BC031181	0.292318	6.539388	2.840965	0.013513	0.129708	-3.03964
Ift22	0.292284	5.902815	2.489794	0.026576	0.180317	-3.66388
Nostrin	0.292277	5.317851	2.195093	0.046264	0.234242	-4.16564
Synj1	0.291843	6.521898	3.559279	0.003328	0.066455	-1.72184
Tacr2	0.291782	3.709205	3.048313	0.009024	0.107057	-2.6625
Gm26535	0.291765	3.998666	2.414237	0.030679	0.194163	-3.79483
Tfap2b	0.291758	3.536585	3.578676	0.003204	0.065756	-1.68607
Lym9	0.291728	5.691111	3.237175	0.00624	0.08915	-2.31583
Brap	0.291667	6.834798	3.24724	0.006118	0.088386	-2.29731
2610507B1	0.291653	9.705071	3.756254	0.00227	0.056155	-1.35905
Gp1bb	0.291409	4.130893	2.299535	0.038081	0.212644	-3.99071
Tmem150c	0.291284	4.832002	2.177576	0.047789	0.237892	-4.19463
1110037F0	0.291158	5.82901	2.793512	0.014817	0.13562	-3.12522
Smim5	0.291097	4.654989	3.920958	0.001651	0.048299	-1.05699
Scai	0.291097	5.628784	4.526683	0.000523	0.03012	0.035118
Cenpc1	0.291036	4.352793	2.940227	0.011141	0.117558	-2.85967
Gm16553	0.291005	3.656164	2.609423	0.021139	0.161594	-3.45384
Map3k6	0.290975	6.893046	2.196984	0.046102	0.233935	-4.16251
Yif1a	0.290846	7.814043	2.993931	0.010034	0.112245	-2.76184
Zfp433	0.290836	3.430167	2.704806	0.017591	0.147342	-3.2843
Tmem40	0.29067	4.427561	2.494303	0.026349	0.179263	-3.65602
Pdhx	0.290554	9.207452	3.586135	0.003158	0.065281	-1.67231
Rhob	0.290453	8.66964	3.343473	0.005069	0.080993	-2.11997
Atr	0.290324	5.022441	2.873617	0.012683	0.124869	-2.98057
Cpne8	0.29028	4.870726	2.967597	0.010563	0.114616	-2.80985
Olf156	0.290048	3.544031	2.422791	0.030185	0.192505	-3.78008
9230020AC	0.28989	3.65292	2.301267	0.037958	0.212405	-3.98778
9-Sep	0.289856	5.698151	2.954679	0.010832	0.116018	-2.83338
Nsun6	0.289819	4.449434	3.395112	0.004583	0.077427	-2.02473
LOC102638	0.289503	4.31093	2.278428	0.039616	0.217156	-4.02634
Fkbp6	0.289398	3.952072	4.144255	0.001077	0.039687	-0.6504
Mir16-2	0.289364	3.823637	2.398466	0.031608	0.196396	-3.82198
Pnlcd1	0.289313	3.647668	2.719794	0.017089	0.145291	-3.25751
Olf1340	0.289113	3.332301	3.960531	0.00153	0.04651	-0.98466
Dhrs13	0.289032	4.044907	3.355127	0.004955	0.080194	-2.09848
Cspg4	0.289008	5.195123	2.380522	0.032699	0.198714	-3.85279
2810408A1	0.288991	3.601771	4.046304	0.001298	0.042778	-0.82827
Spock3	0.288964	3.535351	2.551714	0.023612	0.170472	-3.55555
Mdn1	0.288845	4.985894	3.819368	0.002009	0.052913	-1.24312
Macrod2	0.288676	3.613413	3.101103	0.00814	0.102306	-2.56583
Gm9920	0.288184	3.643767	3.24546	0.00614	0.088386	-2.30058
Zfp740	0.288025	5.643199	2.29255	0.038582	0.214051	-4.00252
Gm2808	0.287977	7.909776	3.504701	0.003701	0.069541	-1.82252
Cebpa	0.287971	4.07115	3.410373	0.004449	0.076357	-1.99657

Ascl3	0.287944	3.632741	3.940148	0.001592	0.047441	-1.0219
Bcl2l1	0.287733	6.9619	2.332712	0.035782	0.206627	-3.93444
Cpsf2	0.287713	6.032691	3.533078	0.003502	0.067746	-1.77017
A630001G	0.287686	3.968143	3.115225	0.007919	0.100542	-2.53994
Gm35857	0.287259	11.01049	3.114137	0.007936	0.100704	-2.54193
Ccdc85c	0.287225	5.775448	2.56466	0.023034	0.168122	-3.5328
Hibch	0.287218	7.79579	4.346906	0.000733	0.033694	-0.28521
Fars2	0.287116	7.685225	2.442698	0.029067	0.189011	-3.74567
BC022960	0.287055	4.036594	2.19375	0.04638	0.234491	-4.16787
Wdr4	0.286879	4.3923	2.846732	0.013363	0.128731	-3.02922
Acsl4	0.286601	5.885651	2.941947	0.011104	0.11753	-2.85654
Tle6	0.28653	4.257197	4.618083	0.000442	0.027766	0.196522
Zfp655	0.28637	7.247515	3.134448	0.007627	0.09819	-2.50467
Arl4a	0.286167	6.732764	2.26013	0.040993	0.221062	-4.05712
Chaf1a	0.286129	3.851642	2.404538	0.031247	0.195719	-3.81153
St6galnac5	0.286082	3.660538	2.168187	0.048625	0.239939	-4.21013
Coq10b	0.285997	8.278904	3.073192	0.008596	0.104751	-2.61697
A530050N	0.28594	3.685694	2.876584	0.01261	0.124572	-2.9752
Cyp4f14	0.285933	3.415265	3.162418	0.007221	0.095643	-2.45331
3010003L2	0.285892	3.633018	2.231045	0.043277	0.227358	-4.10582
49304401	0.285573	3.389531	4.413417	0.000647	0.032755	-0.16628
Ppie	0.285536	4.541368	3.320596	0.005301	0.083	-2.16215
Ift52	0.285536	6.235216	2.41785	0.030469	0.193269	-3.7886
Snapc1	0.2854	5.131958	3.634025	0.002877	0.062351	-1.58403
Zdhhc13	0.285258	5.933807	2.58514	0.022147	0.164828	-3.49672
Megf9	0.285129	5.926093	2.994065	0.010031	0.112245	-2.7616
Glmn	0.285092	3.922575	3.064519	0.008743	0.105922	-2.63285
Avpr1a	0.284909	4.468138	3.503845	0.003707	0.069552	-1.8241
Rasl2-9	0.284729	3.666046	2.167656	0.048673	0.239939	-4.211
Nop10	0.284478	10.26398	3.537224	0.003474	0.067579	-1.76252
Mettl6	0.284451	4.907688	4.037335	0.001321	0.043144	-0.8446
Coq6	0.28439	6.703556	2.74715	0.016209	0.141633	-3.20852
Stau2	0.28437	9.349867	4.107585	0.001155	0.040675	-0.7169
Maf1	0.284153	8.00666	4.16397	0.001037	0.039539	-0.6147
Parp12	0.284078	6.420522	2.401034	0.031455	0.19618	-3.81756
Flywch2	0.283986	3.732732	3.104227	0.008091	0.101976	-2.56011
Gtpbp8	0.283976	6.066305	2.820411	0.014064	0.132281	-3.07675
Gypa	0.283944	3.504928	3.279988	0.005739	0.086188	-2.23699
1810022K	0.283839	3.411207	3.083637	0.008423	0.103966	-2.59784
Tmem106c	0.283644	5.244687	3.206329	0.006627	0.092096	-2.37259
Smyd5	0.283481	4.67885	2.288267	0.038893	0.214843	-4.00975
Pld4	0.283447	5.239705	2.210449	0.044965	0.23059	-4.14014
Fasn	0.283305	5.81076	2.276921	0.039728	0.217347	-4.02888
Olf943	0.283281	3.21236	3.301625	0.005501	0.084162	-2.19712
Mamdc4	0.283261	4.261259	3.451299	0.004107	0.073296	-1.92106
Muc1	0.283129	3.976851	2.362492	0.03383	0.201694	-3.88365
Kcnk2	0.283129	4.247277	3.077027	0.008532	0.104487	-2.60995
Hspa4l	0.282993	7.204322	2.572562	0.022688	0.166818	-3.51889

Farp2	0.282905	6.670586	2.816616	0.014167	0.1329	-3.08359
Tcf15	0.28285	7.200182	2.525465	0.024827	0.174633	-3.60158
Gigyf2	0.282817	7.40508	3.668118	0.002693	0.060969	-1.52123
Ftsj3	0.282728	7.056241	2.616286	0.020862	0.160601	-3.4417
Gm34985	0.282555	3.588625	2.919405	0.011602	0.11989	-2.89752
Kcnh3	0.282511	3.962789	3.381639	0.004705	0.078141	-2.04958
Gm12107	0.282379	3.725255	2.160795	0.049294	0.241398	-4.2223
AY074887	0.282349	3.444967	3.038349	0.009201	0.108254	-2.68072
Coq3	0.282227	8.691569	3.17574	0.007036	0.094671	-2.42883
Mir138-2	0.28221	3.626294	2.373948	0.033107	0.199719	-3.86405
B3gnt6	0.282193	3.719465	3.066862	0.008703	0.105593	-2.62856
Snx2	0.282125	7.585724	3.627283	0.002915	0.062595	-1.59646
Smap2	0.281867	7.451969	2.80514	0.014486	0.133778	-3.10428
Ighv2-6-8	0.28185	3.819392	2.482744	0.026935	0.181566	-3.67616
Gm16283	0.28184	3.380422	2.248884	0.041863	0.223135	-4.07598
Tifab	0.281681	4.41851	3.099828	0.008161	0.102306	-2.56817
LOC102637	0.281528	4.040259	2.477831	0.027189	0.182265	-3.68471
Morc4	0.281464	4.000758	2.673538	0.018685	0.152222	-3.34006
Ntn3	0.281453	3.980652	2.631275	0.020269	0.158157	-3.41515
Lrrc46	0.281294	3.974306	4.081371	0.001214	0.041512	-0.7645
Ipo8	0.281243	6.334307	2.234956	0.042963	0.22678	-4.09929
Haus2	0.28123	6.367828	2.54554	0.023893	0.171362	-3.56639
Tmem30b	0.280928	3.791668	2.780395	0.015198	0.137531	-3.14882
D330041H1	0.280897	3.571275	2.864922	0.012899	0.125999	-2.99631
Clip2	0.280687	4.95382	2.257868	0.041167	0.221398	-4.06092
E230029CC	0.280643	3.569928	3.295008	0.005573	0.084885	-2.20932
Acyp1	0.280619	6.092458	2.26056	0.040961	0.220997	-4.0564
Ttc30a2	0.280596	3.350828	2.56124	0.023185	0.168786	-3.53881
P2ry6	0.280579	5.622711	2.226687	0.043629	0.227956	-4.1131
Pdzph1	0.280562	3.768617	3.148301	0.007423	0.09723	-2.47924
A730017L2	0.280484	4.562442	2.182057	0.047395	0.237082	-4.18723
Spink4	0.280206	3.363817	2.752395	0.016045	0.140682	-3.19911
Mras	0.279806	4.357839	3.286143	0.00567	0.085579	-2.22565
Pdrg1	0.279744	9.426331	2.98562	0.010198	0.112876	-2.777
Prpf4	0.279717	6.549852	3.015768	0.009616	0.11045	-2.72198
Ddx46	0.279683	7.884308	2.516685	0.025247	0.175619	-3.61694
Klhl21	0.279616	6.555661	2.492985	0.026415	0.179495	-3.65832
Cog7	0.279602	5.990875	2.923494	0.01151	0.119648	-2.89009
Paqr4	0.279541	6.078735	2.353814	0.034388	0.203014	-3.89848
Nid2	0.279439	5.184642	2.595898	0.021695	0.163285	-3.47774
Prkdc	0.279385	5.379601	4.178019	0.00101	0.039157	-0.58928
Mtmr12	0.279344	5.857934	2.522518	0.024968	0.174974	-3.60674
LOC102638	0.279236	4.031464	2.165011	0.048911	0.240399	-4.21536
Vldlr	0.27908	10.20627	2.363371	0.033774	0.201694	-3.88215
Csk	0.279005	4.660824	2.707966	0.017484	0.147206	-3.27865
A230108P1	0.278897	3.634972	2.923033	0.01152	0.119648	-2.89093
Defb35	0.278856	3.870873	2.897323	0.012111	0.121505	-2.9376
Gm12185	0.278848	3.698424	2.182453	0.04736	0.237037	-4.18657

Gm13348	0.278843	3.472836	2.753793	0.016002	0.140614	-3.1966
Synpo	0.278693	5.542504	2.428416	0.029865	0.191748	-3.77036
Cycs	0.278693	4.254093	2.218484	0.044299	0.229126	-4.12677
Rsl1d1	0.27868	8.766619	3.568732	0.003267	0.066221	-1.7044
Dgkh	0.27868	5.568865	2.772959	0.015419	0.138229	-3.16219
Mptx2	0.278486	3.567954	2.849187	0.013299	0.128397	-3.02478
Gm7694	0.278415	4.387743	2.721127	0.017045	0.145017	-3.25513
4930524N1	0.278358	3.233498	3.31013	0.005411	0.08365	-2.18145
Adgrl4	0.2779	9.122999	2.714711	0.017258	0.146126	-3.2666
1700102H2	0.277896	3.597688	2.591553	0.021876	0.163799	-3.48541
Nudt13	0.277751	7.467163	3.755828	0.002272	0.056155	-1.35983
Mir7-2	0.277724	3.640652	2.568236	0.022877	0.167416	-3.5265
Dsel	0.277669	4.85612	2.273549	0.039979	0.218332	-4.03456
Gm15787	0.277662	4.656572	2.762073	0.015747	0.139409	-3.18174
Zfp420	0.277578	3.8411	3.263485	0.005927	0.08729	-2.26739
Timp4	0.277405	7.610382	2.925789	0.011459	0.119389	-2.88592
Ckmt2	0.277384	11.77639	3.794589	0.002107	0.054404	-1.28861
Pbld1	0.277327	4.16202	2.236727	0.042821	0.22645	-4.09633
Ly6g6d	0.277222	3.722677	2.609265	0.021145	0.161594	-3.45412
Rassf9	0.277195	5.365323	2.926868	0.011435	0.119327	-2.88396
Yif1b	0.276883	8.385837	2.794274	0.014795	0.135469	-3.12385
Pxmp2	0.276754	9.028676	2.616373	0.020858	0.160601	-3.44154
D630033O	0.276591	3.613149	2.874695	0.012656	0.124706	-2.97862
Josd2	0.276442	7.494666	2.365816	0.033619	0.201342	-3.87797
Traj7	0.276313	3.188368	2.966456	0.010586	0.114721	-2.81193
Rnf145	0.276082	5.266622	3.104068	0.008093	0.101976	-2.5604
Pcca	0.275879	9.559163	3.904118	0.001706	0.049196	-1.0878
Nme6	0.275845	4.94733	2.755942	0.015935	0.140378	-3.19275
Dusp8	0.275682	5.797835	2.744472	0.016293	0.141919	-3.21332
Ddx21	0.275601	6.875431	2.219389	0.044225	0.229096	-4.12526
Spryd3	0.27557	4.538176	2.685091	0.018273	0.150181	-3.31948
Stx5a	0.275486	7.45659	3.012244	0.009682	0.110879	-2.72842
Phtf1os	0.275391	3.860921	3.690132	0.00258	0.059557	-1.48069
Isoc2b	0.275374	3.701652	2.437756	0.029341	0.18995	-3.75422
Pygo1	0.275323	7.587206	2.49043	0.026544	0.180148	-3.66277
Spg21	0.275187	5.372294	3.556896	0.003343	0.066539	-1.72623
Epha2	0.275102	4.634784	2.317416	0.036825	0.20968	-3.96042
Fam83h	0.274916	3.939541	3.100172	0.008155	0.102306	-2.56754
Fkbp1b	0.274773	3.52142	2.789018	0.014946	0.136388	-3.13331
Ppp1r10	0.274706	6.248681	2.181315	0.04746	0.237298	-4.18845
Vps29	0.274706	7.997216	4.43593	0.00062	0.032056	-0.12613
Trdv5	0.274382	3.457748	2.994725	0.010018	0.112245	-2.76039
Ctdp1	0.27438	5.853499	2.806247	0.014455	0.13377	-3.10228
Mrps28	0.274346	7.492967	2.199354	0.0459	0.233215	-4.15858
1110006O2	0.274326	3.931352	2.353899	0.034383	0.203014	-3.89833
Tmem203	0.274312	5.605255	2.268357	0.040369	0.219225	-4.04329
Ggnbp1	0.274251	4.516357	3.453644	0.004088	0.073224	-1.91673
Bbs2	0.274224	6.376044	2.179187	0.047647	0.237443	-4.19197



Pdcd6	0.274095	6.637536	2.723664	0.016962	0.144917	-3.25059
Gimap8	0.274095	4.734378	2.326916	0.036174	0.207637	-3.94429
Ccdc130	0.274089	7.14974	3.45292	0.004094	0.073275	-1.91807
Serpina1c	0.27408	3.326575	2.693042	0.017995	0.14892	-3.3053
LOC102637	0.273956	3.798762	3.611622	0.003005	0.063261	-1.62532
Wapal	0.27381	7.763696	3.189992	0.006842	0.093296	-2.40264
Olf1218	0.273756	3.491696	2.696095	0.017889	0.148539	-3.29985
Gm20161	0.273712	3.394424	2.569151	0.022837	0.167271	-3.52489
Abi3	0.273593	6.294512	3.020923	0.009519	0.109775	-2.71257
Snora36b	0.273407	3.527735	2.56107	0.023193	0.168786	-3.53911
Gm15564	0.273204	3.503464	4.084636	0.001206	0.041464	-0.75857
Erb2	0.27299	4.842875	2.521984	0.024993	0.175022	-3.60767
Rnf20	0.272875	6.563683	2.930996	0.011343	0.118866	-2.87646
Susd3	0.272725	4.170217	2.948546	0.010962	0.116796	-2.84454
Slfn2	0.272719	5.004361	2.244445	0.04221	0.224508	-4.08342
4933406KC	0.272508	3.753523	2.471532	0.027517	0.18346	-3.69566
Prdx6	0.272169	6.805681	2.57846	0.022433	0.165799	-3.5085
Olf1729	0.271973	3.161214	3.553575	0.003365	0.066704	-1.73236
Plekha7	0.271884	6.049354	2.945903	0.011019	0.116926	-2.84935
Gm3495	0.271881	3.426061	2.268598	0.04035	0.219225	-4.04289
Snord85	0.271851	3.725606	3.921221	0.001651	0.048299	-1.05651
Mcee	0.271823	8.768073	2.719155	0.01711	0.145421	-3.25865
Slc5a1	0.271759	3.844294	2.450972	0.028614	0.187299	-3.73134
Cplx4	0.271664	3.467701	2.380491	0.032701	0.198714	-3.85284
Copg2	0.271613	8.3347	2.996176	0.00999	0.112245	-2.75775
Ifitm5	0.271352	4.033137	2.27647	0.039761	0.217483	-4.02964
Fam69a	0.271349	5.14072	3.014605	0.009637	0.110613	-2.72411
Psmc6	0.271308	9.7268	3.03227	0.009311	0.108723	-2.69184
Tkfc	0.271159	4.590007	3.796569	0.002099	0.054401	-1.28498
Acsf1	0.271159	11.42855	2.41134	0.030847	0.194736	-3.79982
Lcn8	0.271013	3.77841	2.87367	0.012681	0.124869	-2.98048
Mblac2	0.270732	5.595327	2.211923	0.044842	0.230232	-4.13769
Dio2	0.270725	4.028754	2.6842	0.018305	0.150232	-3.32107
Abl2	0.270677	5.30819	2.805736	0.01447	0.13377	-3.1032
Gm30571	0.27042	4.338172	2.51432	0.025362	0.176026	-3.62108
Blmh	0.270331	7.262933	3.560946	0.003317	0.0664	-1.71876
Traf4	0.270267	4.483115	2.35808	0.034113	0.20235	-3.89119
Tmem209	0.270237	6.265978	2.965762	0.0106	0.114776	-2.81319
St6gal1	0.270148	4.733056	3.472572	0.00394	0.071617	-1.8818
Prkar2b	0.270138	3.578998	2.251754	0.041639	0.222469	-4.07117
4930442L0	0.270099	3.506469	2.673051	0.018702	0.152222	-3.34093
Mir497	0.269918	3.708038	2.603098	0.021397	0.162223	-3.46502
Spt1	0.269891	3.554623	2.631768	0.02025	0.158156	-3.41428
Gm11744	0.269545	3.638353	3.883821	0.001774	0.050226	-1.12496
Cc2d1a	0.269446	4.713011	3.092784	0.008274	0.103047	-2.58108
Echs1	0.269368	10.17896	3.850681	0.001891	0.051557	-1.18569
Zxda	0.269328	4.240295	3.354938	0.004957	0.080194	-2.09883
Med27	0.269321	6.063534	2.39956	0.031543	0.196396	-3.82009

Gtf2a2	0.269321	5.90468	2.601009	0.021483	0.1626	-3.46871
Mir129-1	0.269275	3.392532	3.901194	0.001715	0.049359	-1.09315
Fbf1	0.269121	4.350381	3.925274	0.001638	0.048299	-1.0491
Gml	0.269029	3.721022	2.443566	0.029019	0.188959	-3.74417
Ect2	0.268914	3.779883	2.580289	0.022354	0.165789	-3.50528
Stard8	0.268887	6.745609	2.386745	0.032317	0.197782	-3.84211
Mt3	0.268453	4.098826	2.876611	0.012609	0.124572	-2.97515
Gm13748	0.268411	3.336598	3.529316	0.003528	0.067927	-1.77711
AI463170	0.268372	4.128164	3.847786	0.001902	0.051721	-1.191
Stard3nl	0.268328	4.223194	3.054751	0.008911	0.106777	-2.65072
Abhd4	0.268283	9.265001	2.768801	0.015543	0.138696	-3.16966
Thap6	0.268012	5.711806	2.923743	0.011504	0.119648	-2.88964
Nfrkb	0.268005	6.25412	3.168137	0.007141	0.09532	-2.4428
Igkv10-95	0.26797	3.353956	2.237118	0.04279	0.226334	-4.09568
Mpc2	0.267822	10.06588	2.970964	0.010493	0.114365	-2.80372
Tmem86b	0.267788	4.162703	2.728521	0.016803	0.144225	-3.24189
Lonp2	0.267653	8.356483	3.292702	0.005598	0.085014	-2.21357
Cstad	0.267649	4.317744	3.071438	0.008626	0.104858	-2.62018
Kdm5d	0.267504	5.14189	2.254681	0.041412	0.221728	-4.06627
Baz1a	0.267076	4.891351	2.414089	0.030687	0.194168	-3.79508
Shtn1	0.267046	4.279112	3.328421	0.005221	0.082457	-2.14773
E03004202	0.266717	4.227678	2.308405	0.037453	0.211396	-3.9757
Gm16133	0.266652	3.402369	3.410256	0.00445	0.076357	-1.99679
Hyal3	0.266615	4.156908	3.312657	0.005384	0.08365	-2.17679
Sall3	0.266435	3.664956	2.723564	0.016965	0.144917	-3.25076
Olfr120	0.266385	3.175591	2.717241	0.017173	0.14581	-3.26207
493342712	0.266084	3.584865	2.652676	0.019451	0.154861	-3.37717
Dnajc28	0.265957	5.648278	2.500265	0.026051	0.178543	-3.64562
Cfap36	0.265889	6.513479	2.540906	0.024105	0.1723	-3.57452
Cd19	0.265883	4.094693	3.35735	0.004934	0.08001	-2.09438
Bglap3	0.265839	3.754583	3.76555	0.002229	0.05553	-1.34196
Plau	0.2657	4.323442	2.825191	0.013934	0.13171	-3.06812
Aco1	0.265632	7.241865	3.192505	0.006809	0.09322	-2.39801
Slc12a2	0.265611	7.547194	2.620545	0.020692	0.159767	-3.43416
Cttnbp2	0.265435	3.807034	2.495493	0.026289	0.179203	-3.65395
Ufd1l	0.265184	8.872501	3.047942	0.009031	0.107057	-2.66318
Osbp	0.26515	9.36695	3.578	0.003208	0.065756	-1.68731
1700030Ml	0.265096	3.846903	3.309589	0.005416	0.083686	-2.18244
Mat2b	0.265008	6.502621	3.221499	0.006434	0.090568	-2.34468
Mon2	0.264994	8.161794	2.65024	0.019543	0.155006	-3.3815
Cdk5	0.264933	6.687317	2.682334	0.018371	0.150575	-3.32439
Snhg7	0.264628	4.355784	2.18009	0.047567	0.237359	-4.19048
Hcfc1r1	0.264499	8.480557	2.389898	0.032125	0.197284	-3.8367
Notch3	0.264431	6.026096	3.467474	0.003979	0.071977	-1.89121
Tmem126a	0.264323	8.354492	3.139305	0.007555	0.09798	-2.49576
Dnttip1	0.264275	7.886369	2.623323	0.020581	0.159245	-3.42924
Sharpin	0.264262	7.140594	2.305187	0.03768	0.212002	-3.98115
Ift57	0.264255	5.963182	2.887591	0.012343	0.122737	-2.95525

1700106J1	0.264069	3.824743	2.558297	0.023316	0.169495	-3.54398
Catsper2	0.263943	4.597141	2.6752	0.018625	0.152048	-3.3371
Accs	0.263831	5.005125	2.344241	0.035014	0.204907	-3.91481
Tet2	0.263794	7.170471	2.35179	0.03452	0.203418	-3.90193
Igkv8-19	0.263787	3.482154	2.651049	0.019512	0.155006	-3.38006
Tssk2	0.263719	3.488793	3.707743	0.002493	0.058217	-1.44828
Reps1	0.263685	6.727709	3.079008	0.008499	0.104434	-2.60632
E330033B0	0.263638	4.955224	2.993889	0.010035	0.112245	-2.76192
Susd6	0.263631	8.483378	2.405897	0.031167	0.195462	-3.80919
Cdc25a	0.263618	4.106825	3.57173	0.003248	0.066073	-1.69887
4921511C1	0.263468	3.811503	3.157129	0.007296	0.096277	-2.46303
A330076C0	0.26339	3.453066	3.239854	0.006207	0.088888	-2.3109
Them4	0.26335	4.34603	2.746794	0.01622	0.141663	-3.20916
Ttr	0.263306	4.15802	3.953647	0.001551	0.046786	-0.99723
Pcsk2	0.263085	3.519808	2.77429	0.015379	0.138072	-3.1598
Ciao1	0.263075	7.719916	3.912611	0.001678	0.048737	-1.07226
Cyp51	0.262675	4.218333	2.60148	0.021463	0.1626	-3.46788
Tgs1	0.262668	6.228502	2.63404	0.020162	0.157665	-3.41025
Gtf2a1	0.262587	7.290961	3.535945	0.003482	0.067579	-1.76488
Dct	0.262509	4.424711	2.428462	0.029863	0.191748	-3.77028
Kif9	0.262383	3.65113	2.202081	0.045669	0.232519	-4.15405
Jag1	0.262349	6.079417	2.775098	0.015355	0.138055	-3.15834
Sirt3	0.262343	5.514309	2.257994	0.041157	0.221398	-4.06071
Ticam2	0.262044	3.923584	3.607411	0.00303	0.06362	-1.63309
Lce1g	0.261998	3.160296	2.789822	0.014923	0.136342	-3.13186
Snora43	0.261875	5.492265	2.517925	0.025188	0.175556	-3.61477
Gm14808	0.261837	3.683328	4.580515	0.000473	0.028709	0.130304
Ipo11	0.261698	7.111969	4.0252	0.001352	0.043699	-0.8667
Ttll4	0.261678	5.470032	2.715087	0.017245	0.146119	-3.26593
Scfd1	0.261542	6.253493	2.543403	0.023991	0.171813	-3.57014
Mir28c	0.261361	3.346826	3.435403	0.004236	0.074637	-1.95039
Kdm2b	0.261292	4.893667	2.21831	0.044314	0.229126	-4.12706
Blm	0.261132	4.064729	2.497848	0.026171	0.179011	-3.64984
Stradb	0.261095	7.795749	2.270639	0.040197	0.219001	-4.03946
Zbtb45	0.260939	4.149594	2.358245	0.034102	0.202335	-3.89091
Mir1933	0.260905	4.756266	2.345558	0.034927	0.204726	-3.91256
Klhdc2	0.260837	9.108609	2.447558	0.0288	0.18807	-3.73725
Gm12171	0.260742	3.242839	3.647522	0.002803	0.061834	-1.55916
Mageh1	0.260722	4.40803	2.919991	0.011589	0.11989	-2.89645
Rai14	0.260451	5.084001	2.955581	0.010813	0.115914	-2.83173
Ano5	0.2604	3.624259	2.759091	0.015838	0.139922	-3.1871
Eci2	0.260376	8.93455	2.168796	0.048571	0.239939	-4.20912
Gm2762	0.260332	4.08028	2.749007	0.01615	0.141224	-3.20519
Nup54	0.260179	5.539269	2.64192	0.019858	0.156424	-3.39627
Wbp5	0.260145	7.687364	2.714742	0.017257	0.146126	-3.26654
A930002C0	0.260122	4.826838	2.255587	0.041342	0.221709	-4.06475
7630403G2	0.260098	3.347416	2.80586	0.014466	0.13377	-3.10298
Sra1	0.259928	7.448812	3.094777	0.008241	0.102801	-2.57743

F930015NC	0.259925	3.655923	2.684344	0.0183	0.150232	-3.32081
Stx17	0.259772	7.004723	2.395887	0.031763	0.196662	-3.82641
Mir181b-2	0.259769	3.901043	2.600174	0.021517	0.162659	-3.47019
Srgap1	0.259562	4.275289	2.637931	0.020011	0.156933	-3.40335
Tekt2	0.259538	3.750537	4.450908	0.000603	0.031585	-0.09945
Gcfc2	0.259101	4.09	3.037442	0.009217	0.108303	-2.68238
Adk	0.25906	9.310194	2.592922	0.021819	0.163663	-3.48299
Rspry1	0.259013	5.384715	2.203564	0.045543	0.232153	-4.15159
Igkv8-30	0.258976	3.634289	2.53347	0.024451	0.172928	-3.58756
Olf116	0.258714	3.685998	2.615935	0.020876	0.160601	-3.44232
Mir24-2	0.258501	3.386819	2.60854	0.021174	0.16172	-3.4554
Jrkl	0.258382	5.114868	2.594603	0.021749	0.163395	-3.48003
Plekhn1	0.258379	3.783324	2.472129	0.027485	0.183372	-3.69462
E2f7	0.258274	4.307197	2.89418	0.012186	0.121839	-2.9433
Mut	0.25807	9.261197	2.863342	0.012939	0.126139	-2.99917
LOC106740	0.25785	4.314146	2.398649	0.031597	0.196396	-3.82166
Ulbp1	0.257711	3.608999	3.534919	0.003489	0.067609	-1.76677
Lonrf2	0.257524	4.198993	2.960972	0.0107	0.11545	-2.82192
Myo1h	0.257477	3.741369	3.015688	0.009617	0.11045	-2.72213
2210016L2	0.257467	6.311351	2.55344	0.023534	0.170415	-3.55252
Rpe	0.257453	5.288883	2.356092	0.034241	0.20265	-3.89459
Mtmr7	0.257401	3.469439	2.824657	0.013948	0.131762	-3.06908
Pyhin1	0.257363	3.353617	2.775378	0.015347	0.13803	-3.15784
Tshz2	0.257297	5.700751	2.947281	0.010989	0.116796	-2.84684
Il2rb	0.257239	3.676146	3.332529	0.005179	0.081936	-2.14015
Phactr2	0.257202	7.634135	2.385799	0.032374	0.197843	-3.84373
Mir1898	0.25708	5.355265	2.502719	0.025929	0.178004	-3.64134
Tipin	0.256995	4.314858	2.948729	0.010958	0.116796	-2.8442
Zfp408	0.256985	4.595615	2.442584	0.029073	0.189011	-3.74587
3110053B1	0.256972	3.678372	2.682414	0.018368	0.150575	-3.32425
Elavl1	0.256632	7.666077	3.437637	0.004218	0.074422	-1.94627
Rtcb	0.256558	7.40253	2.226947	0.043608	0.227942	-4.11266
Kbtbd7	0.256321	5.737698	2.675065	0.01863	0.152048	-3.33734
Dnase2b	0.256321	3.627753	2.468372	0.027682	0.184056	-3.70115
Mir1249	0.25631	3.549054	2.730058	0.016753	0.144013	-3.23914
Nabp2	0.256287	7.906626	2.803458	0.014534	0.134066	-3.10731
Pald1	0.256287	4.979543	2.424254	0.030102	0.19235	-3.77755
Fbxw19	0.256222	3.199156	4.107376	0.001155	0.040675	-0.71727
Dennd4b	0.256056	6.458594	2.9191	0.011609	0.11989	-2.89807
4930563E2	0.256019	4.134845	2.700806	0.017727	0.147986	-3.29144
Hnrnpa2b1	0.256009	7.555088	2.22675	0.043624	0.227956	-4.11299
Ak6	0.255934	6.034543	2.347474	0.034801	0.204289	-3.9093
Nek6	0.255795	4.401498	2.800589	0.014615	0.134544	-3.11248
Gm11127	0.25572	3.604016	3.30863	0.005427	0.083689	-2.18421
Sec13	0.255561	7.822605	2.301083	0.037971	0.212405	-3.9881
Krt36	0.255371	3.770752	3.311538	0.005396	0.08365	-2.17885
Usp3	0.25533	6.848043	3.049176	0.009009	0.107004	-2.66092
Gm19708	0.255307	3.780892	2.751739	0.016065	0.140776	-3.20029

Teddm3	0.2553	3.388474	3.904982	0.001703	0.049196	-1.08622
Zfp12	0.255063	4.135669	2.324405	0.036345	0.208317	-3.94856
Gm17746	0.255032	3.959059	2.412087	0.030804	0.194658	-3.79853
Fam50b	0.254996	3.389949	2.74984	0.016124	0.141046	-3.20369
Pih1h3b	0.254832	3.803848	2.444924	0.028944	0.188611	-3.74182
Khynyn	0.254737	4.855721	2.738723	0.016475	0.142756	-3.22362
Dock7	0.254605	6.161808	2.698585	0.017803	0.148124	-3.29541
Ikzf2	0.254574	4.647307	2.439513	0.029243	0.189565	-3.75118
Zscan25	0.254523	4.9562	2.886988	0.012357	0.122783	-2.95634
Gm9958	0.25433	3.602019	2.806143	0.014458	0.13377	-3.10247
Sipa1	0.254232	5.802734	2.406987	0.031103	0.195207	-3.80732
Gm30473	0.254066	3.487384	2.600936	0.021486	0.1626	-3.46884
Jdp2	0.254018	5.079809	2.558154	0.023323	0.169495	-3.54424
Ptprn	0.25394	3.826026	3.697552	0.002543	0.058979	-1.46703
Gm14089	0.253896	4.225418	3.103664	0.0081	0.102004	-2.56114
Mrps2	0.253886	6.268382	2.200926	0.045767	0.232909	-4.15597
Vmn1r177	0.253816	3.16182	2.509408	0.0256	0.176732	-3.62966
Gm12790	0.253747	3.927817	2.225602	0.043717	0.228033	-4.11491
1500004A1	0.253608	3.793389	2.176673	0.047869	0.238147	-4.19612
Otc	0.253396	3.40689	2.900095	0.012046	0.121279	-2.93257
Ccnjl	0.25332	4.41735	3.398223	0.004555	0.077338	-2.01899
2310002DC	0.253279	3.606783	3.483769	0.003855	0.070922	-1.86114
Sarnp	0.253265	3.998133	2.301979	0.037907	0.212389	-3.98658
Trub1	0.253092	5.664795	3.393868	0.004594	0.077427	-2.02702
Nr1h2	0.252787	8.651459	3.079747	0.008487	0.104396	-2.60497
Ptges2	0.252631	7.063653	2.156254	0.049708	0.242637	-4.22977
Cacng1	0.25238	3.754201	3.051927	0.008961	0.106878	-2.65589
Pds5a	0.252245	8.058089	3.163817	0.007202	0.095585	-2.45074
3110056KC	0.252072	4.32851	2.457553	0.028258	0.186337	-3.71993
Pcna	0.252062	9.136122	3.029408	0.009363	0.108872	-2.69707
Stim2	0.251912	6.654602	2.910373	0.011808	0.120438	-2.91392
Tmem69	0.25175	6.44635	2.222292	0.043987	0.228638	-4.12043
Kcnn1	0.251729	5.428436	2.194001	0.046358	0.234491	-4.16745
Nfkb1	0.251383	7.018595	2.7999	0.014634	0.134615	-3.11372
Eif4g3	0.251282	7.467112	2.816063	0.014183	0.13292	-3.08459
Cand1	0.25118	6.994405	2.457936	0.028237	0.186301	-3.71927
Ntf5	0.251126	3.782708	2.358695	0.034073	0.202309	-3.89014
Olfr1277	0.251065	3.203088	2.992239	0.010067	0.112329	-2.76493
Cyb5a	0.250827	8.690518	3.232687	0.006295	0.089626	-2.32409
Dnajc13	0.250821	7.40015	2.705145	0.017579	0.147342	-3.28369
Purg	0.250651	4.419759	2.418101	0.030455	0.193269	-3.78817
Col28a1	0.250468	3.786448	2.680603	0.018432	0.150929	-3.32748
Micalcl	0.250339	3.77613	2.480672	0.027042	0.182026	-3.67976
1700025C1	0.250231	3.702589	2.469754	0.02761	0.183819	-3.69875
9130221F2	0.25022	3.417347	3.350564	0.005	0.080606	-2.1069
Ccna1	0.250203	3.742045	3.94072	0.00159	0.047441	-1.02085
Cyp2d9	0.250153	3.284907	2.229691	0.043386	0.227575	-4.10808
Pkn1	0.250115	7.00315	2.252623	0.041572	0.222269	-4.06972

Klk14	0.250078	3.553262	3.008871	0.009746	0.11113	-2.73458
493059612	0.249963	3.400779	3.491161	0.0038	0.070391	-1.8475
Pigb	0.249888	4.623154	2.49291	0.026419	0.179495	-3.65845
Ttk	0.249864	3.706882	3.365735	0.004854	0.079559	-2.07892
Ipcef1	0.249746	3.680944	4.087549	0.0012	0.041309	-0.75328
Traj9	0.249647	3.486233	2.626513	0.020456	0.158815	-3.42359
Polg	0.249552	6.302022	3.117208	0.007888	0.100255	-2.5363
Gm4532	0.249495	3.993969	2.50983	0.02558	0.176732	-3.62892
Gm10277	0.249369	3.884857	2.411676	0.030828	0.194714	-3.79924
Trav14d-3	0.249339	3.596756	2.577451	0.022476	0.165987	-3.51028
Topbp1	0.249335	5.725091	2.441952	0.029108	0.189084	-3.74696
Pfkfb4	0.249261	4.129432	2.477478	0.027207	0.182308	-3.68532
Bend6	0.249095	3.665075	2.302779	0.03785	0.212307	-3.98523
Mccc2	0.249084	7.665232	2.421123	0.030281	0.192825	-3.78295
Spata17	0.248857	3.570962	2.530214	0.024603	0.173513	-3.59326
Txndc5	0.248806	5.909397	2.17597	0.047931	0.238361	-4.19728
Tnfrsf10b	0.248674	4.184477	3.263898	0.005922	0.087289	-2.26663
Gtf2e1	0.248657	4.308573	2.409255	0.030969	0.194862	-3.80341
Klra6	0.248369	3.118407	3.125966	0.007754	0.09896	-2.52024
Smu1	0.248338	5.90249	2.609039	0.021154	0.161614	-3.45452
Hat1	0.24821	7.254313	4.016159	0.001375	0.043852	-0.88317
4933413L0	0.248198	3.155756	3.294801	0.005575	0.084885	-2.2097
Mir362	0.248103	3.270943	3.083082	0.008432	0.103975	-2.59886
Emcn	0.24804	8.263994	2.531056	0.024564	0.173382	-3.59179
Arap3	0.247911	6.25156	2.505257	0.025804	0.177402	-3.63691
E430016F1	0.247854	3.713852	2.389617	0.032142	0.197284	-3.83718
Il1rl1	0.24764	3.663534	2.525216	0.024839	0.174633	-3.60202
Klhl31	0.247572	9.850674	2.947573	0.010983	0.116796	-2.84631
Heph	0.247518	4.20579	2.303732	0.037783	0.212306	-3.98361
Nelfb	0.247498	6.019257	2.257935	0.041162	0.221398	-4.0608
Klhl34	0.247498	4.245982	2.810254	0.014343	0.133449	-3.09506
Lin54	0.247348	5.175432	2.909649	0.011824	0.120438	-2.91523
2610206C1	0.247345	3.240779	3.192453	0.00681	0.09322	-2.39811
G6pc2	0.247243	3.600672	3.808688	0.002051	0.053574	-1.26273
Prune	0.24724	7.082442	2.823578	0.013977	0.131867	-3.07103
Cnbd2	0.247019	3.6996	4.217439	0.000937	0.037622	-0.51806
Mtcl1	0.247009	4.474091	2.431227	0.029706	0.191272	-3.76551
Zfp72	0.246919	3.359218	2.563647	0.023079	0.168399	-3.53458
Hand2	0.246867	7.000549	2.362575	0.033825	0.201694	-3.88351
Asb17	0.246709	3.331037	2.783719	0.015101	0.137258	-3.14284
Gm5420	0.246585	3.541994	3.321153	0.005295	0.083	-2.16113
Spib	0.246402	3.548576	2.409879	0.030933	0.194856	-3.80234
Gm16976	0.246273	3.74773	2.906313	0.011901	0.120763	-2.92129
9230104L0	0.24624	3.984855	2.410447	0.0309	0.194818	-3.80136
Olfr290	0.246095	3.221436	2.404853	0.031229	0.195651	-3.81099
Tmsb15b1	0.245555	3.189102	2.280711	0.039447	0.216767	-4.0225
Zfp526	0.245466	4.204032	2.30428	0.037744	0.212239	-3.98268
Katna1	0.245402	4.60203	2.242767	0.042342	0.224826	-4.08623

Ndufc1	0.245266	11.45434	2.671177	0.01877	0.152621	-3.34426
Fam135a	0.245199	7.549357	3.63981	0.002845	0.062253	-1.57337
Camkmt	0.245178	5.324575	2.466304	0.027792	0.184486	-3.70474
Pcdhb19	0.245104	3.779534	3.370316	0.00481	0.079093	-2.07047
Ndufa9	0.24509	11.06786	3.463469	0.004011	0.072198	-1.8986
Gjc1	0.244961	4.23625	2.615752	0.020883	0.160601	-3.44264
Ctr9	0.244948	6.068437	2.263261	0.040755	0.2203	-4.05186
lars	0.244887	8.842821	2.392697	0.031955	0.197039	-3.83189
Mfsd5	0.244771	5.775055	2.614946	0.020915	0.160601	-3.44407
Krtap21-1	0.244642	3.310391	2.277723	0.039668	0.217261	-4.02753
Ermap	0.244592	3.983054	2.482771	0.026934	0.181566	-3.67611
Naa11	0.244575	4.018853	2.526155	0.024795	0.174472	-3.60037
Pigu	0.244514	7.614119	2.508603	0.02564	0.176832	-3.63107
Nepn	0.244507	3.686625	3.342673	0.005077	0.081068	-2.12145
Dnm3	0.244493	6.671075	2.436691	0.0294	0.189988	-3.75606
Usp14	0.24448	7.549649	3.017982	0.009574	0.110192	-2.71794
Olfr137	0.244422	3.493712	2.552482	0.023577	0.170415	-3.5542
N4bp1	0.244392	6.967248	2.342893	0.035103	0.205016	-3.9171
Exosc2	0.244103	4.777813	2.163875	0.049014	0.240713	-4.21723
Fanca	0.244046	3.905145	2.777625	0.01528	0.137678	-3.1538
Pdcd2l	0.244039	7.166616	2.339771	0.03531	0.205541	-3.92242
Gm14762	0.243985	3.475182	3.085324	0.008395	0.103728	-2.59475
Arsb	0.243964	6.231683	2.302542	0.037867	0.212307	-3.98563
Whrn	0.24389	5.489621	2.41081	0.030878	0.194783	-3.80073
1700080G1	0.243791	3.529773	2.637509	0.020027	0.157011	-3.40409
Kera	0.243652	3.520264	2.996165	0.00999	0.112245	-2.75777
Myl10	0.243629	3.692615	3.296481	0.005557	0.084807	-2.2066
Art4	0.24351	7.79835	2.496944	0.026216	0.179136	-3.65142
Dos	0.243388	4.518992	2.41822	0.030448	0.193269	-3.78796
Olfr1014	0.243235	3.556432	3.499027	0.003742	0.069861	-1.83299
Klk1b16	0.243174	3.296229	2.740966	0.016404	0.142436	-3.2196
Zfp597	0.243093	4.333623	2.217555	0.044376	0.229137	-4.12832
Tshz1	0.243076	7.016883	2.476129	0.027277	0.182517	-3.68767
4933412E1	0.243073	4.334915	2.377728	0.032872	0.198988	-3.85757
Dcaf12l1	0.243039	3.839049	3.035111	0.00926	0.108326	-2.68664
Sc1t1	0.242988	4.716871	2.254581	0.04142	0.221728	-4.06643
Kcnc2	0.242835	3.509357	4.156718	0.001051	0.039677	-0.62783
Mir3105	0.242828	3.225744	3.594705	0.003106	0.064522	-1.65651
Ms4a4c	0.242811	3.706285	2.363362	0.033775	0.201694	-3.88217
Tnfrsf1b	0.24275	4.83508	2.446619	0.028851	0.188298	-3.73888
5031425F1	0.242571	3.575794	2.572299	0.022699	0.166818	-3.51935
Svil	0.242459	9.154433	3.074401	0.008576	0.104714	-2.61476
Il27ra	0.242388	4.579853	2.275783	0.039812	0.217702	-4.0308
Bms1	0.242093	6.180454	2.173112	0.048185	0.238969	-4.202
Fiz1	0.242025	5.542562	2.268107	0.040387	0.219225	-4.04372
Gpr174	0.241998	3.341702	2.418656	0.030423	0.193269	-3.78721
Efcab14	0.241977	8.436093	2.633465	0.020184	0.15779	-3.41127
Spon2	0.241957	4.149706	3.312126	0.00539	0.08365	-2.17777

Arhgap18	0.241876	6.118822	2.359077	0.034049	0.202259	-3.88949
Pnpla2	0.241713	11.5398	2.29571	0.038355	0.213216	-3.99718
Zc3h13	0.241536	5.751302	2.505695	0.025782	0.177303	-3.63615
Gm8884	0.241389	3.317797	2.770749	0.015485	0.138522	-3.16616
Olfir847	0.24128	3.251011	2.173596	0.048142	0.238886	-4.2012
Rps15a-ps	0.241184	3.278551	2.557205	0.023365	0.169692	-3.5459
Fxyd1	0.241116	11.18859	2.888159	0.012329	0.1227	-2.95422
Ak3	0.241021	9.484117	2.678839	0.018495	0.151298	-3.33062
Olfir15	0.240699	3.608468	3.787177	0.002138	0.054522	-1.30223
4632427E1	0.24056	7.480469	2.290925	0.0387	0.214464	-4.00526
Tmem140	0.240411	5.677985	2.71295	0.017316	0.146523	-3.26975
4933428C1	0.240343	3.294651	2.956694	0.010789	0.115863	-2.82971
Whsc1	0.240268	5.472673	3.579595	0.003199	0.065756	-1.68437
Chic1	0.240248	3.743903	2.481536	0.026997	0.181935	-3.67826
Dcaf17	0.240228	5.214027	2.555322	0.023449	0.170065	-3.54921
Mllt3	0.240187	6.620256	2.231261	0.043259	0.227315	-4.10546
Aoah	0.240102	4.075862	2.188808	0.046806	0.23567	-4.17606
Ptprb	0.240017	9.112196	2.849771	0.013284	0.128301	-3.02372
LOC100862	0.239963	3.985948	2.933051	0.011298	0.118708	-2.87272
Tmem132c	0.239938	3.324559	2.662454	0.019088	0.15365	-3.35979
Lonrf3	0.239902	3.819577	2.46422	0.027902	0.184824	-3.70836
Mkrn2os	0.239868	4.049703	2.589913	0.021945	0.163963	-3.4883
Gpr89	0.239855	6.188449	2.704458	0.017603	0.147342	-3.28492
BC065397	0.239838	4.086878	2.162054	0.049179	0.24119	-4.22023
Mrps12	0.239773	7.233819	2.325276	0.036285	0.208037	-3.94708
4930528D0	0.239641	3.811552	2.545414	0.023898	0.171362	-3.56661
Pcdhga10	0.239563	6.886546	2.389515	0.032148	0.197284	-3.83736
Snrnp200	0.239502	8.069946	2.778818	0.015245	0.137673	-3.15166
Cry1	0.239482	5.069611	2.226373	0.043654	0.227968	-4.11362
Mir146b	0.239407	3.785801	2.385969	0.032364	0.197829	-3.84344
Npepl1	0.239237	7.924957	2.24979	0.041792	0.22298	-4.07446
Gm26641	0.239221	3.79238	3.039464	0.009181	0.108196	-2.67868
Ppan	0.239075	4.133046	2.569149	0.022837	0.167271	-3.5249
Lrrd1	0.239051	3.365456	2.465081	0.027856	0.184701	-3.70687
Gareml	0.239037	3.903943	3.026626	0.009414	0.109107	-2.70215
Cml1	0.238868	3.533008	2.362965	0.0338	0.201694	-3.88285
Csf2	0.238853	3.155234	3.565827	0.003285	0.066241	-1.70976
2010107E0	0.238729	10.76031	2.932778	0.011304	0.118721	-2.87322
Gm14902	0.238519	3.820757	2.260522	0.040963	0.220997	-4.05646
Apol6	0.238466	3.621837	2.551614	0.023617	0.170472	-3.55573
4933413J0	0.238407	3.61253	3.027835	0.009392	0.108962	-2.69994
Rnf38	0.238295	6.451341	2.707072	0.017514	0.147294	-3.28025
2310009AC	0.238274	4.672848	2.196064	0.046181	0.234107	-4.16403
Snora21	0.238173	9.597928	2.534799	0.024388	0.17274	-3.58523
Gm10046	0.238122	3.600099	2.78867	0.014956	0.136388	-3.13394
Pcdhb17	0.23781	4.373137	2.658253	0.019243	0.154199	-3.36726
Kdm4d	0.237783	3.629064	3.177081	0.007017	0.094656	-2.42637
Gnai1	0.237644	4.856778	2.958222	0.010757	0.115719	-2.82692



Olfir823	0.237586	3.219786	3.42884	0.004291	0.075071	-1.9625
Tbc1d22b	0.237467	6.137451	3.359693	0.004911	0.079749	-2.09006
Glyr1	0.237434	7.688215	2.31072	0.037291	0.210788	-3.97178
Ugp2	0.237305	10.04834	2.919505	0.0116	0.11989	-2.89734
Nbas	0.237115	5.928942	2.339539	0.035325	0.205554	-3.92282
Syne3	0.236986	4.218591	2.196312	0.04616	0.234095	-4.16362
Sdhaf1	0.236938	6.386698	2.157447	0.049599	0.242198	-4.22781
Gm5801	0.23681	4.333411	2.183135	0.0473	0.236834	-4.18544
Olfir1441	0.236769	3.822079	2.895293	0.012159	0.121746	-2.94129
Phf11a	0.236762	4.665744	2.208005	0.04517	0.231148	-4.14421
Ube2dnl2	0.236699	3.066185	3.82225	0.001998	0.052809	-1.23784
Slc36a4	0.236565	5.296017	2.215372	0.044556	0.229533	-4.13195
Snora78	0.23645	4.225972	2.817415	0.014146	0.132801	-3.08215
5830444BC	0.236332	3.694093	3.19969	0.006714	0.092728	-2.3848
Hsbp1l1	0.236131	3.668521	2.520113	0.025083	0.175323	-3.61095
Npb	0.236108	3.743054	2.267639	0.040423	0.219295	-4.0445
Snx7	0.23605	5.96617	2.38212	0.0326	0.198536	-3.85005
Bcl3	0.236043	5.136414	2.54935	0.023719	0.170915	-3.5597
Usp8	0.235928	7.617801	2.979809	0.010314	0.113556	-2.7876
Clec2e	0.235806	3.780908	2.36929	0.033399	0.200602	-3.87203
Maml3	0.235372	4.648448	2.218895	0.044265	0.229126	-4.12609
Ears2	0.235297	4.844048	3.522205	0.003577	0.068153	-1.79023
Prdx1	0.235291	7.897756	2.424572	0.030084	0.19235	-3.777
Olfir308	0.235284	3.650113	2.611592	0.021051	0.161233	-3.45
Sptssa	0.235229	5.346781	2.586323	0.022097	0.164597	-3.49464
Igkv2-109	0.235153	3.368716	3.685797	0.002602	0.059838	-1.48867
Tyw5	0.234914	4.058619	2.333729	0.035713	0.206463	-3.93271
1700031A1	0.234909	3.432396	2.929832	0.011369	0.118952	-2.87857
Map3k13	0.234884	3.899913	2.215868	0.044515	0.229533	-4.13113
Nanos2	0.234816	3.784481	2.520325	0.025072	0.175323	-3.61058
Cabp4	0.234802	4.118459	2.870945	0.012749	0.125301	-2.98541
Bcr	0.234545	4.974531	2.689956	0.018102	0.149511	-3.3108
Plk4	0.234517	3.652985	3.397027	0.004566	0.077338	-2.02119
Bmp2	0.23445	3.939816	2.694857	0.017932	0.148696	-3.30206
Ebna1bp2	0.234436	5.599152	2.348785	0.034716	0.204026	-3.90706
Sh3gl1	0.234294	4.876912	2.594311	0.021761	0.163437	-3.48054
Mir29b-1	0.234289	3.021034	2.342989	0.035096	0.205016	-3.91694
Sptlc2	0.234165	8.504452	2.528793	0.02467	0.173837	-3.59575
Gm12100	0.234109	3.081166	2.973227	0.010447	0.114162	-2.79959
Mir1930	0.234066	3.667408	2.534447	0.024405	0.17274	-3.58585
Cep350	0.234009	7.602356	2.826702	0.013893	0.131622	-3.06539
Olfir314	0.233955	3.695753	2.902787	0.011983	0.121077	-2.92769
Bcl7a	0.233771	6.529483	2.516684	0.025247	0.175619	-3.61694
Cyp2c70	0.233746	3.421316	2.640331	0.019919	0.156691	-3.39909
Fermt2	0.233704	8.874013	2.739313	0.016456	0.142693	-3.22257
Slc9a4	0.233673	3.494603	2.451914	0.028562	0.187104	-3.72971
Mss51	0.233653	3.760707	2.470742	0.027558	0.183572	-3.69703
2610020HC	0.233605	3.758811	2.47952	0.027101	0.182091	-3.68177

Gphn	0.233459	7.875356	2.918768	0.011616	0.11989	-2.89868
Mir681	0.233398	3.310059	2.699549	0.01777	0.147997	-3.29369
Ms4a1	0.233393	3.397051	3.128117	0.007722	0.098798	-2.51629
Hsd17b3	0.233354	3.697895	3.664032	0.002714	0.061231	-1.52875
Dhx58	0.23329	3.889838	2.686322	0.01823	0.150104	-3.31728
Nhlrc1	0.23327	4.396908	2.904549	0.011942	0.120931	-2.92449
Maged1	0.233025	8.438778	2.987617	0.010158	0.112746	-2.77336
Htr7	0.233012	3.597056	2.566764	0.022941	0.167593	-3.52909
Sec24a	0.232937	7.35003	3.033901	0.009281	0.108479	-2.68885
Npr2	0.232931	7.369558	2.326415	0.036208	0.207736	-3.94514
Il34	0.232764	4.554696	2.7648	0.015664	0.138977	-3.17685
Tbp	0.2327	6.136695	3.168429	0.007137	0.09532	-2.44227
Gpr21	0.232459	4.087747	2.376935	0.032921	0.199176	-3.85893
Gpx2	0.232346	3.303998	2.58981	0.02195	0.163963	-3.48848
Slc25a23	0.232178	8.33842	3.111075	0.007983	0.101042	-2.54755
Dennd2a	0.232123	4.650241	2.215094	0.044579	0.229533	-4.13242
Rptoros	0.232062	3.996972	2.730689	0.016733	0.143888	-3.23801
Mst1r	0.231971	4.24595	2.748182	0.016176	0.1414	-3.20667
Gm19950	0.231934	3.567627	2.825182	0.013934	0.13171	-3.06814
Ddx3y	0.231866	8.901415	3.200232	0.006707	0.092682	-2.38381
C730036E1	0.231686	4.364866	2.229317	0.043416	0.227657	-4.10871
Ash2l	0.231547	6.96815	2.736653	0.016541	0.14298	-3.22733
3110002H1	0.231194	6.810584	2.582752	0.022249	0.165254	-3.50093
Gtpbp3	0.231049	4.407516	2.734203	0.01662	0.14331	-3.23172
Olfr24	0.231038	3.33256	2.264482	0.040662	0.220085	-4.04981
Gm30289	0.230954	4.639728	2.297687	0.038213	0.21282	-3.99384
Aplp2	0.230943	10.02335	2.686347	0.018229	0.150104	-3.31724
Oas1f	0.23094	3.583488	2.509299	0.025606	0.176732	-3.62985
Eral1	0.230937	7.207428	2.533939	0.024429	0.172822	-3.58674
Ndufa12	0.230889	11.61186	3.477889	0.003899	0.071348	-1.87199
Mirlet7g	0.230787	3.404456	2.203164	0.045577	0.232277	-4.15225
Ighv7-3	0.230403	3.223111	2.195383	0.046239	0.234242	-4.16516
Exoc1	0.230225	6.084513	2.167835	0.048657	0.239939	-4.21071
Zfp560	0.230218	3.753944	2.837321	0.013609	0.130077	-3.04622
Gm10369	0.230187	3.994651	2.16649	0.048778	0.240187	-4.21292
Wisp3	0.230167	3.860608	2.521108	0.025035	0.175266	-3.60921
C1rl	0.230035	4.668566	2.799441	0.014647	0.134615	-3.11454
Adgrg2	0.22993	3.78863	2.391296	0.03204	0.197156	-3.8343
Ppp1r32	0.229913	3.721727	2.281911	0.039359	0.216376	-4.02047
D130020LC	0.229913	3.65288	4.013151	0.001383	0.044029	-0.88865
Olfr1284	0.229733	3.303262	3.008106	0.00976	0.11113	-2.73597
Dhx34	0.22973	5.031857	2.631457	0.020262	0.158157	-3.41483
Vps13b	0.22973	6.77909	2.89384	0.012194	0.121839	-2.94392
Usp43	0.229702	4.406355	2.66235	0.019092	0.15365	-3.35997
0610038B2	0.229635	4.263418	2.311895	0.037208	0.210514	-3.96979
LOC102638	0.22957	3.642861	2.788999	0.014947	0.136388	-3.13334
Kat2a	0.229506	5.337735	2.77174	0.015455	0.138356	-3.16438
Gchfr	0.22938	4.099553	2.314623	0.037018	0.210327	-3.96516

Mcm3ap	0.229238	4.894079	2.773874	0.015391	0.138105	-3.16054
Upk2	0.229234	4.433953	2.409589	0.03095	0.194856	-3.80284
Nploc4	0.229112	9.926405	2.437479	0.029356	0.189951	-3.7547
Adcyap1r1	0.228926	4.660524	2.650119	0.019547	0.155006	-3.38171
Myo1a	0.228831	3.674067	3.03745	0.009217	0.108303	-2.68237
Slc27a2	0.228553	3.404153	2.252064	0.041615	0.222388	-4.07065
Mir129-2	0.228536	3.150726	2.299769	0.038064	0.212616	-3.99032
Ube2d1	0.228455	8.83493	2.170817	0.04839	0.23956	-4.20579
Sec24c	0.228014	7.947503	2.711867	0.017353	0.146631	-3.27168
1600002KC	0.227997	4.136622	2.534975	0.02438	0.17274	-3.58492
Ube2j1	0.22798	7.582577	3.274069	0.005806	0.086535	-2.2479
Tmem169	0.227929	3.850944	2.675408	0.018618	0.152048	-3.33673
Ccr1	0.227905	3.493917	2.760143	0.015806	0.139786	-3.18521
Tsen34	0.227797	5.164842	2.222854	0.043941	0.228486	-4.11949
Lypd6b	0.227709	3.490726	2.531486	0.024543	0.173365	-3.59104
Gm16897	0.227668	3.529443	2.959173	0.010737	0.115604	-2.82519
Def6	0.227525	3.880202	2.264036	0.040696	0.220202	-4.05056
Rab24	0.227451	7.537065	2.579127	0.022404	0.165796	-3.50732
Dmtf1	0.227302	6.203495	2.365314	0.033651	0.201435	-3.87883
Lats2	0.227119	6.047479	2.204036	0.045504	0.232045	-4.1508
Fau	0.227	3.984268	2.506097	0.025763	0.17724	-3.63544
4933422AC	0.22682	3.254605	3.356054	0.004946	0.080161	-2.09677
Crhbp	0.226727	3.580567	2.209366	0.045056	0.230792	-4.14194
Ndrp4	0.226583	7.764659	2.161383	0.04924	0.241346	-4.22133
Abcc4	0.226508	5.444472	2.626788	0.020445	0.158815	-3.4231
Clpb	0.226488	7.461714	2.31795	0.036788	0.209518	-3.95952
Phax	0.226345	4.894097	2.777804	0.015275	0.137678	-3.15348
Gm6657	0.226206	3.388412	2.726962	0.016854	0.144428	-3.24468
Zfp773	0.22619	3.453671	2.56127	0.023184	0.168786	-3.53876
Rrm2	0.226122	4.189721	2.814965	0.014213	0.132996	-3.08657
Sytl3	0.226054	3.836334	2.374305	0.033085	0.199633	-3.86344
BC037032	0.226017	4.616426	2.461256	0.02806	0.185424	-3.71351
Gpr19	0.225993	3.953573	2.910757	0.011799	0.120438	-2.91322
Fbxw24	0.225871	3.115865	2.999229	0.009931	0.112219	-2.75218
2210409E1	0.225801	3.317897	2.723078	0.016981	0.144917	-3.25163
Lats1	0.225789	5.944763	2.154649	0.049856	0.243069	-4.23241
Il10	0.22574	3.3776	3.473925	0.00393	0.071617	-1.87931
Sult2a5	0.225708	3.431295	3.759835	0.002254	0.05598	-1.35247
Riid1	0.225593	3.783532	2.17151	0.048328	0.239329	-4.20465
LOC10263	0.225545	4.08551	3.175886	0.007034	0.094671	-2.42856
Nr6a1	0.225077	3.680247	2.570251	0.022789	0.167264	-3.52296
Zfp316	0.225009	3.873572	2.41847	0.030434	0.193269	-3.78753
Pnliprp1	0.224721	3.61879	2.901604	0.012011	0.121193	-2.92984
Kbtbd3	0.224664	4.020209	2.214556	0.044624	0.229611	-4.13331
Zdhhc22	0.224575	3.908186	2.447543	0.028801	0.18807	-3.73728
Ttc39c	0.224518	4.53804	3.030053	0.009351	0.108872	-2.69589
Alg9	0.224433	5.316644	2.734449	0.016612	0.14331	-3.23128
2310039L1	0.224419	4.051663	2.488491	0.026642	0.18042	-3.66615

1700047M	0.224338	3.542508	2.912378	0.011762	0.120438	-2.91028
Sash3	0.224155	3.846127	2.731925	0.016693	0.143696	-3.2358
Mt1	0.224108	11.51765	2.255586	0.041343	0.221709	-4.06475
4930423M	0.224036	3.235309	2.250029	0.041773	0.222946	-4.07406
2010003K1	0.223911	4.271298	2.47938	0.027109	0.182091	-3.68201
Faxc	0.223694	3.563751	2.407691	0.031061	0.195153	-3.8061
N4bp2l1	0.223663	4.394709	3.47075	0.003954	0.071804	-1.88517
Nck2	0.223592	5.54067	2.207515	0.045211	0.231216	-4.14502
Nbr1	0.223443	8.64525	2.227326	0.043577	0.227889	-4.11203
Ap1g2	0.223314	4.76807	2.922243	0.011538	0.119765	-2.89236
Hoxc8	0.223243	3.690886	2.777335	0.015289	0.137678	-3.15432
Mir325	0.223199	3.504422	2.312027	0.037199	0.21051	-3.96956
Gm15895	0.223134	3.54866	2.179903	0.047584	0.237376	-4.19079
Man1b1	0.223114	4.713282	2.887531	0.012344	0.122737	-2.95536
Trav18	0.223036	3.66588	2.262106	0.040843	0.220631	-4.0538
AA543186	0.223036	3.970242	2.237182	0.042785	0.226334	-4.09557
Rnf214	0.223029	6.895532	3.569425	0.003262	0.066221	-1.70312
Smim24	0.222934	4.275855	2.302852	0.037845	0.212307	-3.9851
Adam23	0.222887	4.024773	3.051015	0.008977	0.106942	-2.65756
Arhgef18	0.22286	6.076111	3.430607	0.004276	0.074971	-1.95924
Elmo2	0.222812	6.067786	3.057247	0.008868	0.10645	-2.64616
Gm7160	0.222748	4.40711	3.007501	0.009772	0.11113	-2.73708
Ropn1l	0.222694	3.445657	2.327743	0.036117	0.207506	-3.94289
Gm6654	0.222466	3.662014	4.050775	0.001287	0.042721	-0.82014
Cntnap5b	0.222443	3.378881	2.189676	0.046731	0.235597	-4.17462
Ptpn22	0.222293	3.728253	2.704016	0.017618	0.147418	-3.28571
Ccne1	0.22228	4.087133	2.3311	0.03589	0.206965	-3.93718
Zswim8	0.222154	5.827711	2.48739	0.026698	0.180701	-3.66807
Ythdf2	0.222148	7.296458	2.966201	0.010591	0.114728	-2.81239
Zc3h4	0.222073	6.543979	2.236023	0.042878	0.22665	-4.09751
Tmem183a	0.222026	6.691742	2.185611	0.047084	0.236365	-4.18135
Sp8	0.22187	3.563409	2.539262	0.024181	0.172575	-3.57741
Tasp1	0.221802	5.162659	2.513192	0.025416	0.176286	-3.62305
Utp20	0.221768	4.862674	2.186964	0.046966	0.236017	-4.17911
Szt2	0.221636	4.751117	2.53917	0.024185	0.172575	-3.57757
Snhg11	0.221625	3.98565	3.137805	0.007577	0.098056	-2.49851
Trbv13-2	0.221385	3.315364	2.397798	0.031648	0.196427	-3.82312
Csgalnact1	0.221232	4.232198	2.771904	0.01545	0.138356	-3.16408
Appbp2	0.221178	8.009026	2.270634	0.040197	0.219001	-4.03947
Wdr13	0.221164	6.216702	2.298014	0.03819	0.21282	-3.99329
Spatc1l	0.221035	3.671553	3.008363	0.009756	0.11113	-2.73551
6430562O	0.220866	5.015544	2.172862	0.048207	0.238969	-4.20241
Fam72a	0.220757	3.340929	2.282405	0.039322	0.216368	-4.01964
Mrpl20	0.220605	4.617627	2.909465	0.011829	0.120438	-2.91557
Gm20047	0.2205	3.439433	2.384354	0.032463	0.198141	-3.84621
Gm4651	0.2203	3.949668	2.302661	0.037858	0.212307	-3.98543
Ssh1	0.220106	5.372423	2.41775	0.030475	0.193269	-3.78877
Olfrc338	0.220076	3.183443	2.596623	0.021665	0.16313	-3.47646

Smg8	0.220059	4.125248	2.993656	0.010039	0.112245	-2.76235
Gm14041	0.220035	3.514477	2.542255	0.024043	0.172004	-3.57216
Ctcflos	0.219952	3.27827	2.610907	0.021078	0.161233	-3.45122
Mir17hg	0.219883	3.702145	2.660801	0.019149	0.153812	-3.36273
4930503H1	0.219791	3.493115	2.473666	0.027405	0.182994	-3.69195
Tssc4	0.219659	4.21424	2.28009	0.039493	0.216875	-4.02354
Acpp	0.219581	3.540861	2.906967	0.011886	0.120686	-2.92011
Vgll1	0.219482	3.547729	3.500366	0.003732	0.069762	-1.83052
Nf1	0.219055	7.910634	3.288383	0.005646	0.085422	-2.22152
Ei24	0.219048	7.558417	2.228495	0.043482	0.227717	-4.11008
Rufy2	0.219001	5.266239	2.859909	0.013025	0.126784	-3.00539
Mir450-1	0.218884	3.261948	3.194714	0.00678	0.093116	-2.39395
Luzp1	0.218757	6.218102	2.336798	0.035508	0.206051	-3.92749
Arhgef25	0.218631	4.491803	3.344284	0.005061	0.080917	-2.11848
A230070EC	0.218489	3.412793	3.085322	0.008395	0.103728	-2.59475
Ece2	0.218418	4.089922	2.782393	0.015139	0.13741	-3.14523
Olfr1062	0.218336	3.16589	2.946406	0.011008	0.116925	-2.84843
Srd5a1	0.218248	3.750807	2.611128	0.021069	0.161233	-3.45082
Chil5	0.218084	3.389966	2.984031	0.01023	0.113027	-2.7799
1700026D1	0.218045	3.453342	2.428743	0.029847	0.191748	-3.7698
Gm13257	0.218011	3.722368	2.568927	0.022846	0.167293	-3.52529
Olfr1281	0.217968	3.110612	2.688617	0.018149	0.149762	-3.31319
Lzts3	0.217784	4.202316	2.865086	0.012895	0.125999	-2.99602
Mir141	0.217721	3.172093	3.02891	0.009372	0.108875	-2.69798
Fscn2	0.217702	3.601608	2.611189	0.021067	0.161233	-3.45072
Spdl1	0.217682	3.638463	2.322868	0.03645	0.208551	-3.95117
Oscar	0.217631	3.916107	2.354415	0.034349	0.202983	-3.89745
Gm15401	0.217567	3.645649	2.834137	0.013694	0.130565	-3.05197
Gm10654	0.217553	3.895072	2.710843	0.017387	0.146747	-3.27351
Rims3	0.217499	4.277044	2.974168	0.010428	0.114162	-2.79788
Aoc1	0.217406	3.48354	2.306338	0.037598	0.211853	-3.9792
Nat2	0.217211	3.809696	2.392801	0.031949	0.197039	-3.83171
Msh3	0.216804	5.450199	2.51429	0.025363	0.176026	-3.62113
Rnf24	0.216777	3.944082	2.390885	0.032065	0.19719	-3.835
Cntrl	0.216661	4.866957	2.818998	0.014102	0.132472	-3.07929
Fam120a	0.2166	8.653222	2.47909	0.027124	0.182142	-3.68252
Ttc39aos1	0.216512	4.314473	2.397625	0.031659	0.196427	-3.82342
Tpr	0.216458	8.960117	2.588114	0.022021	0.1643	-3.49148
Cyp2c38	0.21622	3.205441	2.333639	0.035719	0.206463	-3.93286
4930554C2	0.21617	3.420992	3.558371	0.003333	0.066455	-1.72351
Mrm1	0.216159	4.859545	2.40346	0.031311	0.195882	-3.81339
Angptl6	0.216064	4.041056	2.218656	0.044285	0.229126	-4.12649
Vmn1r174	0.215729	3.315547	3.602851	0.003057	0.063948	-1.64149
Wt1	0.215542	4.726261	2.191303	0.04659	0.235174	-4.17192
Ankfy1	0.215535	6.958028	2.693894	0.017965	0.148725	-3.30378
Trmt10a	0.215064	3.896513	3.421674	0.004352	0.075672	-1.97572
Ncapg2	0.215057	3.69664	2.272946	0.040024	0.21844	-4.03558
Cep164	0.21504	4.497494	2.216641	0.044451	0.229408	-4.12984

9130011E1	0.215013	6.440352	2.29836	0.038165	0.21282	-3.9927
Ptgs2	0.214996	4.055008	2.16219	0.049167	0.241178	-4.22001
Gm11696	0.214949	3.862439	2.392525	0.031965	0.197039	-3.83219
Dennd4c	0.214905	8.748728	2.375539	0.033008	0.199438	-3.86133
Npas4	0.214467	3.608617	2.923514	0.01151	0.119648	-2.89005
Gstcd	0.214464	3.653537	2.496272	0.02625	0.179203	-3.65259
Asf1a	0.214281	6.666874	2.285444	0.039099	0.215627	-4.01451
9630013A2	0.214261	3.519402	2.282411	0.039322	0.216368	-4.01963
Klra2	0.214222	3.249445	2.796422	0.014733	0.135056	-3.11998
Mast3	0.214162	4.636052	2.517444	0.025211	0.175606	-3.61561
Rnf32	0.214081	3.412542	2.834741	0.013678	0.130529	-3.05088
Mkx	0.213982	3.574765	2.372258	0.033213	0.20026	-3.86694
Ncln	0.213589	6.815453	2.220675	0.044119	0.228938	-4.12312
Svs3b	0.21356	3.45997	2.305117	0.037685	0.212002	-3.98127
Kdm3b	0.21327	7.601915	2.518478	0.025161	0.175556	-3.61381
Gdnf	0.21323	3.574795	2.805469	0.014477	0.13377	-3.10369
Vmn2r23	0.213211	3.166827	2.40306	0.031335	0.195921	-3.81408
Zfp389	0.212724	3.564696	2.256949	0.041238	0.221534	-4.06246
Al854517	0.212701	3.544827	2.195175	0.046257	0.234242	-4.16551
Abi1	0.212226	7.711256	2.301856	0.037916	0.212389	-3.98679
Ccng1	0.212185	11.68845	2.550456	0.023669	0.170652	-3.55776
Ap1f	0.212019	4.220918	2.904621	0.011941	0.120931	-2.92436
Crot	0.211887	7.676907	2.376259	0.032963	0.199333	-3.86009
Ctsj	0.211838	3.211388	2.409539	0.030953	0.194856	-3.80292
Ulk4	0.211558	3.971583	2.940541	0.011134	0.117558	-2.8591
Casc1	0.211494	3.946648	2.234217	0.043022	0.226835	-4.10052
Mir199a-1	0.21146	3.742611	2.398669	0.031596	0.196396	-3.82163
Zbed5	0.211419	3.6936	2.187995	0.046876	0.23571	-4.1774
9430007A2	0.211399	3.450914	2.971955	0.010473	0.114295	-2.80191
Cul4a	0.211249	8.348138	3.319993	0.005307	0.083	-2.16326
Lca5l	0.211161	3.774526	2.436771	0.029396	0.189988	-3.75592
Lrp3	0.211073	4.489326	2.779962	0.015211	0.137557	-3.1496
Btbd19	0.210812	3.885354	2.278952	0.039577	0.217001	-4.02546
Rrp15	0.210548	3.790007	2.40343	0.031313	0.195882	-3.81344
S1pr1	0.210476	8.222426	3.486998	0.003831	0.0707	-1.85518
Gm10030	0.210232	3.6891	2.694204	0.017955	0.148725	-3.30323
Txndc8	0.210141	3.877287	2.638173	0.020002	0.156933	-3.40292
4930555AC	0.210019	4.476591	2.51745	0.02521	0.175606	-3.6156
Olfr1040	0.209958	3.354572	2.530667	0.024582	0.173459	-3.59247
Magea10	0.209774	3.38337	3.525898	0.003551	0.068153	-1.78341
Il10ra	0.209751	4.398495	2.40939	0.030962	0.194862	-3.80318
Timm8a2	0.209646	4.264491	2.309794	0.037355	0.211058	-3.97335
Saxo1	0.209627	3.276607	2.241329	0.042456	0.225291	-4.08863
Gm16701	0.209269	3.314351	2.835701	0.013652	0.130386	-3.04915
Tmem253	0.209235	3.887658	2.664048	0.01903	0.153597	-3.35695
Got1	0.208998	12.34213	2.653776	0.01941	0.154807	-3.37521
Wdr26	0.208815	8.617428	2.705913	0.017553	0.147342	-3.28232
Mir18b	0.208767	3.166965	3.241119	0.006192	0.088874	-2.30857

Lrba	0.20872	7.260935	2.731569	0.016704	0.143739	-3.23644
Gm16347	0.208683	3.186617	2.632809	0.020209	0.157939	-3.41243
Ccnl1	0.20851	6.329515	2.261228	0.04091	0.220849	-4.05528
Gsdmd	0.20851	4.898037	2.597481	0.021629	0.162938	-3.47494
Cercam	0.208452	4.078022	2.71046	0.0174	0.146747	-3.2742
Rbsn	0.208347	6.350267	2.272561	0.040053	0.21853	-4.03622
Zak	0.208313	8.028147	2.417963	0.030463	0.193269	-3.7884
Nme5	0.208266	3.869107	2.338926	0.035366	0.205563	-3.92386
Nmd3	0.208137	6.434309	2.168352	0.048611	0.239939	-4.20985
493340710f	0.208093	3.769167	2.332849	0.035772	0.206622	-3.9342
Nobox	0.207848	3.633872	2.371718	0.033247	0.200367	-3.86787
170003401	0.207584	3.578971	2.46847	0.027677	0.184056	-3.70098
Slc9a1	0.20754	7.549571	2.940286	0.01114	0.117558	-2.85956
BB365896	0.207486	3.173893	2.247924	0.041937	0.223487	-4.07759
Erc5	0.207282	6.232222	2.4197	0.030363	0.193118	-3.78541
Kansl3	0.207262	7.690382	2.257554	0.041191	0.221401	-4.06145
4932416HC	0.20714	4.254774	2.370565	0.033319	0.200415	-3.86984
Safb	0.207052	6.472341	3.306606	0.005448	0.083865	-2.18794
Arhgef7	0.207045	7.202155	2.955773	0.010809	0.115914	-2.83138
Gpr1	0.20697	3.5348	2.212987	0.044754	0.229968	-4.13592
Igkv4-63	0.206862	3.149899	2.722718	0.016993	0.144941	-3.25228
543042701	0.206512	3.34992	3.483116	0.00386	0.070922	-1.86235
Tpp2	0.206482	7.703664	2.689057	0.018134	0.14972	-3.31241
Vmn1r215	0.206419	3.077331	2.319914	0.036652	0.209082	-3.95618
Fam19a5	0.206356	4.300607	2.620075	0.02071	0.159795	-3.43499
Adam2	0.206226	3.371017	2.858399	0.013064	0.126958	-3.00812
Mir688	0.206214	3.3916	2.776103	0.015325	0.137887	-3.15654
Defb21	0.206211	3.403398	3.07371	0.008588	0.104751	-2.61602
Ifitm10	0.206112	4.179065	2.416202	0.030565	0.193682	-3.79144
Pnoc	0.206021	3.851952	2.725791	0.016892	0.144507	-3.24678
Phyh	0.205919	9.999769	2.69859	0.017803	0.148124	-3.2954
H2-M2	0.205872	3.653554	3.726395	0.002405	0.057456	-1.41396
Rhot2	0.205648	7.999308	2.205417	0.045387	0.231736	-4.14851
Abcf3	0.205417	6.719896	2.43598	0.02944	0.190146	-3.75729
Ifna12	0.205234	3.612383	2.427118	0.029939	0.191974	-3.77261
Bcap29	0.205221	8.681061	2.381916	0.032613	0.198536	-3.8504
1700048M	0.205217	3.772286	2.599336	0.021552	0.162659	-3.47167
Cep120	0.205193	7.226783	2.225354	0.043737	0.22809	-4.11532
Unc45bos	0.204939	3.653414	2.604892	0.021323	0.16206	-3.46185
Prr12	0.204671	5.949992	2.180535	0.047528	0.237359	-4.18974
Coro2a	0.204566	4.053374	2.207838	0.045184	0.231172	-4.14449
Fpr2	0.204356	3.331019	2.154187	0.049898	0.243133	-4.23317
Acot3	0.204268	4.016278	2.223368	0.043899	0.228426	-4.11863
Vmn2r72	0.204258	3.093258	2.371194	0.03328	0.200371	-3.86877
1500012KC	0.204186	3.509238	2.32782	0.036112	0.207506	-3.94276
12-Sep	0.204173	3.715205	3.035198	0.009258	0.108326	-2.68648
B130006DC	0.204149	4.14602	2.254186	0.041451	0.221843	-4.06709
Gria1	0.204122	3.755707	2.225124	0.043756	0.228098	-4.1157

Fam78b	0.203983	4.361269	2.401894	0.031404	0.196141	-3.81608
Ankzf1	0.203871	5.052619	2.362762	0.033813	0.201694	-3.88319
4732419C1	0.203708	4.092414	2.250746	0.041717	0.222696	-4.07286
Tmem45a2	0.203525	3.378293	2.399071	0.031572	0.196396	-3.82094
Kcne4	0.203505	4.217963	2.494884	0.02632	0.179203	-3.65501
9530051G	0.20324	4.076962	3.221218	0.006437	0.090568	-2.3452
Zc3hav1l	0.203172	3.970483	2.542884	0.024014	0.171851	-3.57105
Trhr	0.203145	3.331716	3.161081	0.00724	0.095842	-2.45577
Rab31	0.203105	6.623688	2.598073	0.021604	0.162901	-3.4739
Serinc2	0.203074	4.454402	2.206055	0.045333	0.231516	-4.14745
Trpv2	0.202898	4.176644	2.584952	0.022155	0.164828	-3.49705
Fbxw22	0.202894	3.458788	2.547944	0.023783	0.170986	-3.56217
Zfp862-ps	0.202874	4.421261	2.33057	0.035926	0.206968	-3.93808
Fam227a	0.202799	4.072103	2.531361	0.024549	0.173365	-3.59125
Psma5	0.202582	3.536838	2.232731	0.043141	0.226982	-4.10301
Cep170b	0.202579	4.474011	2.603838	0.021367	0.162123	-3.46371
Gm17093	0.202566	3.53154	2.179835	0.04759	0.237376	-4.1909
Ripk1	0.202467	5.827633	3.169748	0.007119	0.09532	-2.43984
Olfr1180	0.202408	3.147021	2.69987	0.017759	0.147997	-3.29311
Hebp2	0.202393	3.55953	2.190073	0.046696	0.235519	-4.17396
Xrcc1	0.202237	5.251834	2.506026	0.025766	0.17724	-3.63557
Zfp618	0.202223	3.672563	2.922957	0.011522	0.119648	-2.89107
Krtap3-3	0.202167	3.320647	2.328836	0.036043	0.207319	-3.94103
Gm11186	0.201992	3.776777	2.315639	0.036948	0.210044	-3.96344
Trim6	0.201881	3.75068	2.42919	0.029821	0.191715	-3.76903
Crabp1	0.201772	3.712458	2.825266	0.013932	0.13171	-3.06799
Gk2	0.201758	3.285043	3.031338	0.009328	0.108819	-2.69354
Mir713	0.201697	3.476011	2.941843	0.011106	0.11753	-2.85673
Ptpn13	0.20166	4.092448	3.568066	0.003271	0.066221	-1.70563
Aox3	0.201643	3.753491	2.223324	0.043903	0.228426	-4.11871
Ttc27	0.201504	4.712568	2.642712	0.019828	0.156366	-3.39486
Cct3	0.20147	8.632311	2.354147	0.034367	0.202983	-3.89791
2610306M	0.201447	4.198542	2.33101	0.035896	0.206965	-3.93733
Pcdhb15	0.201362	3.470635	2.662898	0.019072	0.153648	-3.359
Ambn	0.201145	3.514147	3.807339	0.002056	0.053574	-1.2652
Prmt6	0.20109	4.013713	2.291065	0.03869	0.214455	-4.00503
1700074P1	0.200984	3.263334	2.66055	0.019158	0.153837	-3.36317
Zfp51	0.20095	3.030488	2.700109	0.017751	0.147997	-3.29269
Slc51a	0.200802	3.598448	2.825544	0.013924	0.13171	-3.06748
E430025E2	0.200738	7.98367	2.519973	0.025089	0.175323	-3.61119
Zfp523	0.20069	4.620202	2.578812	0.022418	0.165799	-3.50788
Srl	0.200656	10.79173	2.348113	0.03476	0.204166	-3.90821
Hmcn2	0.200372	4.875088	2.645799	0.01971	0.155803	-3.38938
8430419L0	0.200189	3.904782	2.506895	0.025723	0.177192	-3.63405
Nup153	0.200175	7.352203	3.134675	0.007624	0.09819	-2.50425
Tsga10	0.200165	3.658676	2.955107	0.010823	0.115971	-2.8326
Cysltr2	0.200041	3.284591	2.91609	0.011677	0.120141	-2.90354
Platr10	0.199934	3.637321	2.229824	0.043375	0.227575	-4.10786



Mir200c	0.199931	3.331004	2.523444	0.024923	0.174974	-3.60512
Atp6v1h	0.199748	5.313253	2.293474	0.038516	0.213871	-4.00096
Gbf1	0.199707	7.492106	2.981967	0.010271	0.113179	-2.78366
25100390	0.199653	7.800184	2.180148	0.047562	0.237359	-4.19038
Gm26730	0.199385	3.735516	2.455404	0.028374	0.186765	-3.72366
Pfpl	0.199317	3.585498	2.229773	0.043379	0.227575	-4.10795
Zc3h11a	0.199185	7.989566	2.303268	0.037815	0.212306	-3.9844
Poc5	0.199066	4.850672	2.388734	0.032195	0.197419	-3.8387
Ppp1r15b	0.198853	6.323873	2.184821	0.047153	0.236477	-4.18265
Ptpn20	0.198636	3.355828	3.403256	0.004511	0.07686	-2.0097
Sec16a	0.198608	6.909526	2.818924	0.014104	0.132472	-3.07943
Ttl5	0.198588	5.831228	2.273028	0.040018	0.21844	-4.03544
Rnase12	0.198442	3.344582	2.686074	0.018239	0.150104	-3.31773
Kif16b	0.198398	7.942624	2.233386	0.043089	0.226909	-4.10191
Ndufs1	0.198337	10.91232	3.478959	0.003891	0.071332	-1.87002
Nemf	0.198215	6.835436	2.335312	0.035607	0.20629	-3.93001
Olfr1342	0.198188	3.398248	2.590329	0.021928	0.163948	-3.48757
Igkv4-57-1	0.198062	3.290437	2.228531	0.04348	0.227717	-4.11002
Trappc9	0.197747	5.67472	2.653605	0.019416	0.154808	-3.37552
Pstpip2	0.197734	8.825104	2.392184	0.031986	0.197039	-3.83277
Olfr145	0.197706	3.338355	2.21265	0.044782	0.229968	-4.13648
Nelfe	0.197435	4.886152	2.281942	0.039356	0.216376	-4.02042
Sycp1	0.197383	3.112851	2.931126	0.01134	0.118866	-2.87622
Coq9	0.197293	10.3978	3.165894	0.007172	0.095402	-2.44692
Gsta2	0.197216	3.028458	2.519957	0.02509	0.175323	-3.61122
Mir34a	0.197055	3.608293	2.53679	0.024296	0.17274	-3.58174
Cul1	0.196845	8.343214	2.454265	0.028435	0.186773	-3.72563
Chrng	0.196754	3.861967	2.665396	0.01898	0.153364	-3.35455
Gif	0.196645	3.691422	2.219387	0.044225	0.229096	-4.12527
Zfyve16	0.196493	5.82074	2.991267	0.010086	0.112391	-2.7667
Gm10415	0.196486	3.377947	3.590906	0.003129	0.06482	-1.66351
Mknk2	0.196438	9.758375	2.235334	0.042933	0.2267	-4.09866
Igkv6-32	0.196345	3.101916	2.284517	0.039167	0.215753	-4.01608
4931406H2	0.196225	4.460743	2.475241	0.027323	0.182742	-3.68921
4933417E1	0.196177	3.426132	2.437015	0.029382	0.189988	-3.7555
Trappc12	0.196126	6.34611	2.301408	0.037947	0.212405	-3.98755
Atxn2	0.196058	9.291063	2.442105	0.0291	0.189078	-3.7467
Crispld2	0.196011	7.248722	2.173591	0.048142	0.238886	-4.20121
Gm14719	0.195964	9.316732	2.179324	0.047635	0.237443	-4.19174
Pcdhb1	0.195906	3.523978	2.169399	0.048517	0.239881	-4.20813
Gm20492	0.195899	3.399219	2.552999	0.023554	0.170415	-3.55329
Cops2	0.195896	9.206346	2.289459	0.038806	0.214718	-4.00774
Pls1	0.195808	3.612796	3.017002	0.009593	0.110301	-2.71973
Spata13	0.195424	4.571996	2.351375	0.034547	0.203418	-3.90264
Cend1	0.195377	4.22806	2.357041	0.03418	0.202542	-3.89297
Prpf19	0.195265	8.924455	2.357444	0.034154	0.202496	-3.89228
Fndc9	0.195238	3.934696	2.536001	0.024333	0.17274	-3.58312
Tmem206	0.195214	4.474886	2.331664	0.035852	0.206938	-3.93622

Plch1	0.195038	3.481064	2.228318	0.043497	0.227744	-4.11038
Krt74	0.194917	3.51437	2.256554	0.041268	0.221534	-4.06312
Ubxn4	0.194763	8.444061	2.343246	0.035079	0.205001	-3.9165
Mbnl2	0.194499	10.19979	2.305302	0.037671	0.212002	-3.98095
1700055D1	0.194255	4.13562	2.707591	0.017497	0.14724	-3.27932
Gm12066	0.194005	3.239093	2.387152	0.032292	0.197762	-3.84141
Olf1413	0.193956	3.313694	2.682125	0.018378	0.150586	-3.32476
Slc35g2	0.193804	3.984597	2.297737	0.038209	0.21282	-3.99375
Ii7	0.193622	3.272999	2.263931	0.040704	0.220202	-4.05073
Mocs2	0.193617	6.331346	2.328588	0.03606	0.207368	-3.94145
Aurka	0.193526	3.89022	2.474562	0.027358	0.182836	-3.69039
Igkv5-37	0.193495	3.144925	2.401778	0.031411	0.196141	-3.81628
Olf1018	0.193481	3.271464	3.027256	0.009403	0.109024	-2.701
Tmem211	0.193437	3.85152	2.814071	0.014238	0.133007	-3.08818
Gm12052	0.193271	3.412879	2.226099	0.043677	0.227968	-4.11408
Cdk7	0.19319	5.988196	2.329576	0.035993	0.207175	-3.93977
Col20a1	0.193153	4.180235	2.354206	0.034363	0.202983	-3.89781
Ccdc79	0.193149	3.232886	2.694072	0.017959	0.148725	-3.30346
Pdpr	0.192966	8.463345	2.492008	0.026464	0.179656	-3.66002
Haus1	0.192668	5.832011	2.921522	0.011554	0.119833	-2.89367
Gm19281	0.192488	3.542533	2.167112	0.048722	0.240009	-4.2119
Trim33	0.192478	5.658902	2.182112	0.04739	0.237082	-4.18713
Clvs1	0.191908	4.104743	2.370075	0.03335	0.200455	-3.87068
Mir711	0.19182	3.387658	2.297962	0.038193	0.21282	-3.99337
3830417A1	0.191798	3.261426	2.407112	0.031095	0.195207	-3.8071
Fbxo38	0.191528	6.470439	2.199225	0.045911	0.233215	-4.15879
4930452N1	0.191352	3.43731	2.617426	0.020816	0.160411	-3.43968
Bcl10	0.191277	5.795508	2.334605	0.035654	0.206402	-3.93122
Snord96a	0.191154	3.429154	2.157576	0.049587	0.242188	-4.2276
Olf133	0.191072	3.139563	2.534658	0.024395	0.17274	-3.58548
Rbpms2	0.190898	7.551503	2.934856	0.011258	0.118442	-2.86944
Rela	0.190891	8.767971	2.454236	0.028437	0.186773	-3.72568
0610040J0	0.190796	3.966492	2.389642	0.03214	0.197284	-3.83714
Fam161a	0.19064	3.817895	2.967809	0.010558	0.114616	-2.80947
Trav20	0.190243	3.137195	2.605371	0.021304	0.162042	-3.461
Gm884	0.189931	3.349767	2.474594	0.027357	0.182836	-3.69034
9030204HC	0.18967	3.549588	2.670228	0.018804	0.152621	-3.34595
Hmbox1	0.189602	6.027581	2.263508	0.040736	0.220246	-4.05145
Dr1	0.189514	7.099314	2.402302	0.03138	0.196114	-3.81538
D430001F1	0.189511	3.663684	2.629986	0.020319	0.158301	-3.41743
Mastl	0.189056	3.617884	2.839224	0.013559	0.129797	-3.04278
Cdh3	0.189009	4.025006	2.57139	0.022739	0.166997	-3.52095
Piwil4	0.188768	3.591373	2.261327	0.040902	0.220849	-4.05511
Tefm	0.188751	4.214411	2.405372	0.031198	0.195604	-3.8101
Ptpmt1	0.188694	6.590441	2.598151	0.021601	0.162901	-3.47376
Gpr18	0.188443	3.616845	2.438478	0.029301	0.189789	-3.75297
Gpr141	0.18818	3.248468	2.567377	0.022914	0.167495	-3.52801
Prdm4	0.188022	5.814389	2.664832	0.019001	0.153465	-3.35556

Vmn1r15	0.187919	3.189337	2.362854	0.033807	0.201694	-3.88304
Twf1	0.187873	7.441267	2.422539	0.0302	0.192505	-3.78051
Nlgn1	0.187846	3.353363	2.171571	0.048322	0.239329	-4.20454
Enpp3	0.187798	6.203274	2.27897	0.039576	0.217001	-4.02543
AV051173	0.187686	3.592704	2.891734	0.012244	0.122094	-2.94774
Uqcrc2	0.187636	11.6599	3.028283	0.009384	0.108958	-2.69912
Polb	0.187602	5.436412	2.301364	0.037951	0.212405	-3.98762
Rnf17	0.187473	3.32746	2.312264	0.037183	0.21051	-3.96916
Gm16068	0.187456	3.442442	2.328296	0.03608	0.207388	-3.94195
4930435E1	0.187432	3.312466	2.340929	0.035233	0.20533	-3.92045
Mup-ps12	0.187398	3.036733	2.402274	0.031381	0.196114	-3.81543
Olfr954	0.187215	3.158793	2.390812	0.032069	0.19719	-3.83513
Cdc42bpb	0.18708	7.303175	2.567506	0.022909	0.167495	-3.52779
Brip1	0.186964	3.360735	3.236452	0.006249	0.089224	-2.31716
5930422O	0.186754	3.455926	2.579694	0.02238	0.165796	-3.50632
Mia3	0.186462	7.29896	2.377168	0.032906	0.199137	-3.85853
Olfr172	0.186401	3.324809	2.826717	0.013892	0.131622	-3.06537
Lrrtm4	0.1864	3.484313	2.917707	0.01164	0.12004	-2.9006
Supt5	0.1863	7.970754	2.423799	0.030128	0.19235	-3.77834
Platr7	0.186179	3.460359	2.154351	0.049883	0.243108	-4.2329
Gm20356	0.185913	3.224792	2.33593	0.035566	0.206223	-3.92896
Haus4	0.185303	4.381063	2.407684	0.031062	0.195153	-3.80612
Rab11a	0.185282	8.046417	2.361301	0.033906	0.202007	-3.88569
Zfp780b	0.185201	4.38264	2.648941	0.019592	0.155308	-3.3838
A730013G	0.18514	3.80367	2.193755	0.046379	0.234491	-4.16786
A630075F1	0.185108	3.41189	2.299897	0.038055	0.212616	-3.9901
Prpsap2	0.185028	3.624496	2.386458	0.032334	0.197792	-3.8426
Gm13177	0.184574	3.29297	2.287286	0.038965	0.215162	-4.01141
Snx6	0.184496	7.280236	2.158717	0.049483	0.241916	-4.22572
Mir3473a	0.18447	3.077261	2.319517	0.03668	0.209142	-3.95686
C030007H	0.184418	3.619227	2.204839	0.045436	0.231794	-4.14947
Adm2	0.184167	3.768027	2.512957	0.025428	0.176286	-3.62346
Fabp6	0.184068	3.462802	2.751401	0.016076	0.140819	-3.20089
Gm15232	0.183792	3.283628	2.605279	0.021307	0.162042	-3.46117
Ppfia2	0.183753	3.88924	2.636681	0.020059	0.157162	-3.40556
5930438M	0.183743	3.462802	2.350444	0.034607	0.20363	-3.90423
S100a1	0.183702	11.48573	2.223956	0.043851	0.228383	-4.11765
Eri2	0.183451	3.789561	2.360831	0.033937	0.202007	-3.88649
Gm15870	0.183072	3.365706	2.163297	0.049066	0.240828	-4.21818
Gpr75	0.182997	4.553575	2.329984	0.035966	0.207064	-3.93908
Abcb5	0.182797	3.352222	2.995872	0.009996	0.112245	-2.7583
Ldha	0.182644	10.91294	2.273445	0.039987	0.218332	-4.03473
Rab27b	0.182634	3.678475	2.499531	0.026087	0.178659	-3.6469
Mogs	0.181915	4.119848	2.407666	0.031063	0.195153	-3.80615
181000811	0.181576	3.688282	2.977933	0.010352	0.11377	-2.79102
Igkv3-3	0.181544	3.024122	2.588641	0.021999	0.164232	-3.49055
Olfr1349	0.181381	3.357862	2.839534	0.013551	0.129769	-3.04222
Lrrc75aos1	0.181098	3.825005	2.526228	0.024791	0.174472	-3.60024

Mtfr2	0.181081	3.664841	2.179162	0.047649	0.237443	-4.19201
Trim5	0.181044	3.159044	2.359919	0.033995	0.202132	-3.88805
Podxl2	0.180759	4.079393	2.895035	0.012165	0.121746	-2.94175
Ints2	0.180528	3.851332	2.306592	0.03758	0.2118	-3.97877
Vmn2r86	0.180527	3.019463	2.256725	0.041255	0.221534	-4.06284
Stil	0.180427	3.531538	2.62668	0.020449	0.158815	-3.42329
Vmn2r44	0.180301	3.076886	2.455372	0.028375	0.186765	-3.72371
2310015D2	0.18024	3.678662	2.395435	0.03179	0.196662	-3.82719
1700001J1	0.180118	3.428601	2.43315	0.029598	0.190773	-3.76218
1700018L0	0.179864	4.278734	2.463477	0.027941	0.18497	-3.70965
Olfr707	0.179838	3.104568	2.416084	0.030572	0.193682	-3.79164
Grk4	0.17981	3.581278	2.546163	0.023864	0.171255	-3.5653
Usp42	0.179755	6.750197	2.982909	0.010252	0.113121	-2.78195
Prc1	0.179586	3.436554	2.226094	0.043677	0.227968	-4.11409
Ndufa8	0.179131	11.8438	2.386929	0.032305	0.197762	-3.8418
Ivd	0.179064	10.39487	2.401471	0.031429	0.196141	-3.81681
Mpdz	0.179036	6.570638	2.279037	0.039571	0.217001	-4.02532
Psph	0.178945	4.192337	2.362987	0.033799	0.201694	-3.88281
Ttc23l	0.178858	3.415276	2.518017	0.025183	0.175556	-3.61461
Gm20611	0.178853	3.615387	2.473005	0.02744	0.183176	-3.6931
Brwd1	0.178799	7.187381	2.500568	0.026036	0.178503	-3.64509
Prmt8	0.178104	3.502219	2.497467	0.02619	0.179018	-3.6505
Mrpl18	0.177911	8.679776	2.261851	0.040862	0.220688	-4.05423
1700016D0	0.177907	3.300217	3.059714	0.008825	0.106281	-2.64164
Ighv1-78	0.177821	3.036095	2.946278	0.011011	0.116925	-2.84866
Gm16116	0.177816	3.605591	2.219779	0.044193	0.229025	-4.12461
Plac8	0.177434	3.360039	2.63729	0.020036	0.157028	-3.40448
Pate4	0.177378	3.250148	2.280209	0.039484	0.216875	-4.02334
4933424G0	0.176761	4.139487	2.367923	0.033486	0.200882	-3.87437
Serpina3j	0.17676	3.390382	2.29861	0.038147	0.21282	-3.99228
Kcnq2	0.176497	3.648632	2.451997	0.028558	0.187104	-3.72956
Mrgprb1	0.176292	3.285167	2.711249	0.017373	0.146706	-3.27279
Trip12	0.176215	9.336806	2.909367	0.011831	0.120438	-2.91575
Gldc	0.176171	3.853385	2.182477	0.047358	0.237037	-4.18653
Stk33	0.176103	3.459064	2.489053	0.026614	0.180329	-3.66517
Plekha8	0.175768	4.542636	2.367941	0.033485	0.200882	-3.87433
Gm19665	0.17569	3.734166	2.254948	0.041392	0.221728	-4.06582
Stx1b	0.175686	3.728061	2.188206	0.046858	0.23567	-4.17705
Trav14n-3	0.175649	3.256363	2.468131	0.027695	0.184092	-3.70157
Trdv4	0.175564	3.21441	2.818887	0.014105	0.132472	-3.0795
Grm4	0.175401	3.757867	2.446319	0.028868	0.18831	-3.7394
Cdc23	0.175395	7.369761	2.256679	0.041258	0.221534	-4.06291
Nkx2-3	0.175323	3.558202	2.350483	0.034605	0.20363	-3.90416
Plxnb3	0.175249	3.960834	2.984079	0.010229	0.113027	-2.77981
Rbl1	0.175134	4.287762	2.174692	0.048044	0.238734	-4.19939
Samd4b	0.175123	6.20361	2.277323	0.039698	0.21727	-4.0282
Tsga13	0.175037	3.210484	2.890986	0.012262	0.122223	-2.9491
Gm20560	0.175032	3.230664	2.610989	0.021075	0.161233	-3.45107

Opn4	0.174883	4.117959	2.647791	0.019635	0.155454	-3.38584
Asxl1	0.17475	6.664198	2.589036	0.021982	0.164157	-3.48985
Gm9457	0.174613	3.129136	3.095544	0.008229	0.102741	-2.57602
Tpd52l2	0.174249	6.681037	2.424289	0.0301	0.19235	-3.77749
Fgl1	0.173757	3.328415	2.800475	0.014618	0.134544	-3.11268
Gm11264	0.173682	3.559253	2.4268	0.029957	0.192039	-3.77315
Mir19a	0.173591	3.125858	2.406189	0.03115	0.195453	-3.80869
Parvg	0.173204	3.927992	2.331463	0.035866	0.206965	-3.93656
Drd3	0.17314	3.867413	2.446822	0.02884	0.188278	-3.73853
Cadm1	0.172909	3.914498	2.787182	0.015	0.13664	-3.13661
4930564DC	0.172902	3.423691	2.258279	0.041135	0.221398	-4.06023
Olf1598	0.172716	3.109551	2.456499	0.028315	0.186563	-3.72176
Gm15104	0.172589	3.067007	2.318539	0.036747	0.209383	-3.95852
Hopxos	0.17238	3.317473	2.48879	0.026627	0.180367	-3.66563
Cyp4f39	0.172326	3.723777	2.855755	0.013131	0.127404	-3.0129
Cit	0.172204	3.942954	2.393784	0.031889	0.197011	-3.83002
Vmn2r51	0.17219	3.289464	2.186052	0.047045	0.23632	-4.18062
5033403FO	0.171892	3.378671	2.160487	0.049322	0.241398	-4.22281
Gm12657	0.17188	3.011233	2.670266	0.018803	0.152621	-3.34589
Zpbp	0.171451	3.640657	2.344954	0.034967	0.204726	-3.91359
Gm4461	0.171373	3.233961	2.651548	0.019493	0.155006	-3.37917
Olf1684	0.17121	3.295729	2.218622	0.044288	0.229126	-4.12654
Mup3	0.171143	3.24703	2.185186	0.047121	0.236365	-4.18205
Shoc2	0.171	8.256724	2.42256	0.030199	0.192505	-3.78047
Ang6	0.170895	3.334064	2.159684	0.049395	0.241628	-4.22413
Capn13	0.17081	3.547482	3.046912	0.009049	0.107222	-2.66506
1600002HC	0.170715	5.037832	2.541694	0.024069	0.17209	-3.57314
Tdpoz1	0.170525	3.286435	2.213229	0.044734	0.229968	-4.13552
Olf11009	0.170447	3.491474	2.746537	0.016228	0.141663	-3.20962
Gm6116	0.170437	3.378676	2.165737	0.048846	0.240237	-4.21416
Dld	0.170383	11.00316	2.181797	0.047417	0.237134	-4.18766
D330045A	0.170358	3.146214	2.517972	0.025185	0.175556	-3.61469
Fbrs	0.169874	7.209774	2.187283	0.046938	0.235973	-4.17858
Map4k4	0.169413	8.361725	2.339384	0.035335	0.205554	-3.92308
Kif4	0.169352	3.296672	2.19955	0.045884	0.233215	-4.15825
Olf1202	0.169325	3.064317	2.330638	0.035921	0.206968	-3.93797
Defb42	0.169284	3.30502	2.343359	0.035072	0.205001	-3.91631
C730002LC	0.16925	3.249095	2.365032	0.033669	0.201461	-3.87931
LOC10263	0.16924	3.203273	2.183689	0.047252	0.236782	-4.18453
Rsph6a	0.169189	3.962524	2.309165	0.037399	0.211235	-3.97441
Rgs18	0.168989	3.34483	2.766173	0.015623	0.138772	-3.17438
Msh4	0.168952	3.581302	2.850389	0.013268	0.128197	-3.0226
Grin2b	0.168935	3.788406	2.286936	0.03899	0.215208	-4.012
Nynrin	0.168918	4.614244	2.192691	0.046471	0.234761	-4.16962
Oat	0.168742	9.532613	2.364152	0.033725	0.201586	-3.88082
Gm13388	0.168474	3.741382	2.340642	0.035252	0.205381	-3.92094
1700109K2	0.168416	3.546773	2.260313	0.04098	0.221035	-4.05681
Mtbp	0.167575	4.049852	2.370576	0.033318	0.200415	-3.86982

Fam222b	0.167284	6.313948	2.159341	0.049426	0.241686	-4.2247
Dlat	0.166843	10.24618	2.455671	0.028359	0.186758	-3.72319
Actl10	0.166653	3.674717	2.332478	0.035797	0.20667	-3.93484
Pmfbbp1	0.166641	3.412504	2.438121	0.02932	0.189868	-3.75359
Gm833	0.166555	3.606959	2.425909	0.030008	0.192176	-3.77469
Car6	0.166497	3.792965	2.502614	0.025934	0.178004	-3.64152
Emc3	0.166361	8.246104	2.196901	0.046109	0.233935	-4.16264
Parpbbp	0.166172	3.625892	2.225111	0.043757	0.228098	-4.11573
Lkaaear1	0.166151	3.461005	2.753866	0.015999	0.140614	-3.19647
Sbspon	0.165856	3.888592	2.215402	0.044554	0.229533	-4.1319
Igfn1	0.165748	3.883981	2.699695	0.017765	0.147997	-3.29343
Tiam1	0.165144	4.111381	2.240238	0.042542	0.22555	-4.09046
Fut8	0.1651	7.47936	2.267501	0.040433	0.219295	-4.04474
Tnfsf11	0.164975	3.5785	2.495421	0.026293	0.179203	-3.65407
Purb	0.164808	7.870816	2.324279	0.036353	0.208317	-3.94877
Ighv9-3	0.16478	3.114128	2.330979	0.035898	0.206965	-3.93739
Krtap14	0.164629	3.300657	2.500722	0.026028	0.178499	-3.64483
5330417C2	0.164395	3.667158	2.172234	0.048263	0.239104	-4.20345
Vmn1r179	0.164144	3.284546	2.592557	0.021834	0.163665	-3.48364
Cd36	0.164063	12.43229	2.701833	0.017692	0.147742	-3.28961
Gm5544	0.163915	3.313891	2.233272	0.043098	0.226909	-4.1021
LOC102640	0.163842	3.869844	2.642532	0.019835	0.156366	-3.39518
Smim9	0.163298	3.191268	2.604084	0.021356	0.16212	-3.46328
Serpini2	0.163227	3.189523	2.219851	0.044187	0.229025	-4.12449
Gmnc	0.163177	3.606735	2.716574	0.017196	0.145849	-3.26327
4933406M1	0.163069	3.45507	2.62278	0.020603	0.159312	-3.4302
Topaz1	0.16295	3.324151	2.811601	0.014306	0.133251	-3.09263
Ifna13	0.162743	3.120516	2.385525	0.032391	0.197862	-3.8442
Grsf1	0.162693	9.405891	2.332889	0.03577	0.206622	-3.93414
Cxcr6	0.162231	3.612773	2.318102	0.036777	0.209507	-3.95926
1700010114	0.162123	3.638353	2.382321	0.032588	0.198515	-3.8497
Gm26787	0.162113	3.241701	2.180455	0.047535	0.237359	-4.18987
Fnta	0.161919	7.655341	2.160531	0.049318	0.241398	-4.22274
1810024BC	0.161631	3.271164	2.173683	0.048134	0.238886	-4.20106
Trmt61b	0.161435	3.676746	2.486552	0.026741	0.180842	-3.66953
Esp16	0.16127	3.015938	2.395377	0.031794	0.196662	-3.82729
Arhgap9	0.161258	3.954897	2.329404	0.036005	0.207194	-3.94006
Gm13715	0.161235	3.682668	2.492766	0.026426	0.179495	-3.6587
Gm13982	0.160931	3.254945	2.339729	0.035312	0.205541	-3.92249
Defb37	0.16087	3.081574	2.306753	0.037569	0.211784	-3.9785
ldh3a	0.160807	11.09538	2.975449	0.010402	0.114104	-2.79554
Dkk4	0.16076	3.814185	2.312714	0.037151	0.21051	-3.9684
Pygm	0.159763	11.80254	2.277231	0.039705	0.21727	-4.02836
Ccdc126	0.159356	4.535244	2.408969	0.030986	0.194869	-3.8039
Helt	0.159115	3.533822	2.185285	0.047112	0.236365	-4.18189
Ift172	0.158956	5.741587	2.21803	0.044337	0.229137	-4.12753
Adam24	0.158781	3.454472	2.658057	0.019251	0.154199	-3.3676
LOC102635	0.158719	3.078139	2.537518	0.024262	0.17274	-3.58046

Ttc30a1	0.158502	3.565742	2.552042	0.023597	0.170472	-3.55498
1700102PC	0.158301	3.558562	2.303462	0.037802	0.212306	-3.98407
Tnfrsf17	0.158291	3.556115	2.535485	0.024357	0.17274	-3.58403
Tbc1d9	0.158274	4.227737	2.673508	0.018686	0.152222	-3.34011
Cpne4	0.158193	3.528315	2.422757	0.030187	0.192505	-3.78013
Gm26579	0.157772	3.120309	2.653026	0.019438	0.154832	-3.37655
Slc26a7	0.157711	3.548582	2.249601	0.041807	0.22298	-4.07478
Khdc1a	0.157593	3.354513	2.18543	0.0471	0.236365	-4.18165
Adam21	0.157003	3.569305	2.910953	0.011794	0.120438	-2.91287
Olf784	0.156798	3.069528	2.22573	0.043707	0.228027	-4.11469
LOC102634	0.156413	3.40682	2.421103	0.030282	0.192825	-3.78299
Slx4ip	0.155918	3.98901	2.215684	0.04453	0.229533	-4.13143
Prl8a2	0.155506	3.064244	2.210795	0.044936	0.23057	-4.13957
Dapl1	0.155402	3.405012	2.181001	0.047487	0.237359	-4.18897
LOC102636	0.155355	3.907186	2.546044	0.02387	0.171255	-3.56551
Gm805	0.155236	3.455548	2.335861	0.03557	0.206223	-3.92908
Ifne	0.155212	3.597137	2.605037	0.021317	0.16206	-3.46159
Slc18a3	0.155178	3.52811	2.322035	0.036507	0.208682	-3.95258
Cldn10	0.155175	3.424267	2.516137	0.025274	0.175749	-3.6179
Gm19325	0.154795	3.676844	2.290627	0.038722	0.214536	-4.00577
R3hdm1	0.154717	9.167528	2.223875	0.043858	0.228383	-4.11779
Gm7134	0.154344	3.665307	2.193762	0.046378	0.234491	-4.16785
4930558GC	0.1542	3.26517	2.284848	0.039143	0.215753	-4.01552
Exosc9	0.153727	6.62911	2.726286	0.016876	0.144492	-3.24589
Bre	0.153463	8.716054	2.210308	0.044977	0.23059	-4.14038
Snx9	0.15252	7.22779	2.364368	0.033711	0.201552	-3.88045
Zwilch	0.1519	3.464703	2.577637	0.022468	0.165987	-3.50995
Lyzl1	0.151798	3.290987	2.199313	0.045904	0.233215	-4.15864
Gm5416	0.151774	3.102091	2.454701	0.028412	0.186773	-3.72488
Tubb2a-ps	0.15173	3.033385	2.626624	0.020451	0.158815	-3.42339
Stox1	0.151666	3.85692	2.344836	0.034975	0.204726	-3.91379
Kynu	0.151598	3.367384	2.535142	0.024372	0.17274	-3.58463
Gm5428	0.151476	8.770725	2.200427	0.045809	0.233077	-4.1568
Gm12506	0.151418	3.107936	2.301908	0.037912	0.212389	-3.9867
Gm16758	0.15136	3.651852	2.369174	0.033407	0.200602	-3.87222
Tdpoz3	0.151181	3.101551	2.569182	0.022835	0.167271	-3.52484
Tstd1	0.150879	3.644694	2.302966	0.037837	0.212307	-3.98491
Ms4a2	0.150613	3.224314	2.46449	0.027888	0.184778	-3.70789
1700011H1	0.150438	3.357201	2.231271	0.043259	0.227315	-4.10545
Haus7	0.150353	3.821433	2.269992	0.040245	0.219147	-4.04055
Dcaf12l2	0.150326	3.589405	2.480481	0.027052	0.182026	-3.6801
LOC102634	0.150241	3.453539	2.543561	0.023983	0.171813	-3.56986
Mms22l	0.150191	3.581768	2.164293	0.048976	0.240575	-4.21654
4933407G1	0.150024	3.321269	2.165145	0.048899	0.240387	-4.21514
Amy2b	0.149555	3.060454	2.512532	0.025448	0.176353	-3.6242
Ncam2	0.148899	3.307685	2.20677	0.045273	0.231348	-4.14626
6330420HC	0.148671	3.297806	2.316193	0.036909	0.209874	-3.9625
Myo3a	0.148461	3.32301	2.188571	0.046827	0.23567	-4.17645

Bpifa3	0.148248	3.475491	2.189712	0.046728	0.235597	-4.17456
Ddx4	0.14808	3.343327	2.40023	0.031503	0.196381	-3.81894
Ambp	0.14781	3.455741	2.383369	0.032523	0.198411	-3.8479
Gm11563	0.147785	3.285481	2.213363	0.044723	0.229968	-4.1353
Fanci	0.147776	3.55102	2.578617	0.022426	0.165799	-3.50822
1700112J0	0.147057	3.54944	2.391872	0.032005	0.197039	-3.83331
Olf183	0.145901	3.152296	2.47813	0.027173	0.182265	-3.68419
Ccdc160	0.145067	3.711124	2.275563	0.039829	0.217708	-4.03117
Mael	0.144948	3.422002	2.259769	0.041021	0.221115	-4.05773
Olf1213	0.144669	3.143949	2.245937	0.042093	0.224028	-4.08092
Vmn2r11	0.143802	3.065309	2.179139	0.047651	0.237443	-4.19205
Olf1426	0.142988	3.261029	2.722003	0.017016	0.145017	-3.25356
Hk1os	0.142632	3.91881	2.363101	0.033792	0.201694	-3.88261
Bsph2	0.142507	3.190964	2.154941	0.049829	0.243034	-4.23193
4933433F1	0.142192	3.550913	2.411156	0.030858	0.194747	-3.80014
Gm6994	0.142107	3.334563	2.352193	0.034493	0.203345	-3.90124
Atp5a1	0.141344	12.97725	2.397203	0.031684	0.196427	-3.82415
Vamp3	0.141161	6.613875	2.196404	0.046152	0.234095	-4.16347
4930525G2	0.140554	3.137497	2.203621	0.045539	0.232153	-4.15149
Fer1l6	0.14014	3.726646	2.216054	0.0445	0.229533	-4.13082
Rgs13	0.139777	3.312646	2.394784	0.031829	0.196785	-3.82831
Sit1	0.139543	3.448108	2.45027	0.028652	0.187443	-3.73256
Obp1a	0.139199	3.080993	2.478538	0.027152	0.182235	-3.68348
Olf1748	0.138896	3.340688	2.462823	0.027976	0.185039	-3.71079
Calb2	0.13877	3.263477	2.223416	0.043895	0.228426	-4.11855
Vdac1	0.138767	11.60259	2.188472	0.046835	0.23567	-4.17661
Gm5615	0.138565	3.135689	2.208791	0.045104	0.230906	-4.1429
Ighv1-49	0.138494	3.014315	2.281961	0.039355	0.216376	-4.02039
Trav5-1	0.137848	3.073563	2.213117	0.044743	0.229968	-4.13571
Rnase10	0.136651	3.321499	2.378223	0.032841	0.198988	-3.85673
Gm10824	0.135997	3.515996	2.178621	0.047697	0.237623	-4.1929
Gm26597	0.134722	3.456928	2.257841	0.041169	0.221398	-4.06096
Ccne2	0.134403	3.753318	2.168806	0.04857	0.239939	-4.20911
Eprs	0.133925	8.784736	2.2139	0.044678	0.229815	-4.1344
Pole	0.133853	4.094352	2.212809	0.044769	0.229968	-4.13622
Ccdc173	0.13247	3.344067	2.20684	0.045267	0.231348	-4.14614
Sytl5	0.132443	3.464578	2.168044	0.048638	0.239939	-4.21036
Tdrp	0.131019	3.781655	2.160413	0.049328	0.241398	-4.22293
Olf1105	0.130825	3.229312	2.170533	0.048415	0.23957	-4.20626
Mir882	0.130646	3.034561	2.254887	0.041396	0.221728	-4.06592
Gm12320	0.129462	3.729933	2.312711	0.037151	0.21051	-3.9684
4930515G1	0.129047	3.162994	2.188726	0.046813	0.23567	-4.17619
Chmp1b	0.127808	6.40863	2.250777	0.041715	0.222696	-4.07281
4933436I0	0.127199	3.103639	2.263691	0.040722	0.220219	-4.05114
Olf169	0.126897	3.208549	2.221601	0.044043	0.228776	-4.12158
Mir3967	0.126141	3.204021	2.332905	0.035769	0.206622	-3.93411
Cib3	0.124986	3.731276	2.167351	0.048701	0.239979	-4.2115
Gabra6	0.124054	3.220718	2.228639	0.043471	0.227717	-4.10984



Ighv1-30	0.123208	2.937987	2.344837	0.034975	0.204726	-3.91379
Gm26705	0.121867	3.520487	2.154748	0.049846	0.243069	-4.23225
Gpr82	0.121134	3.144226	2.312114	0.037193	0.21051	-3.96942
Olfr301	-0.12181	3.070606	-2.31295	0.037135	0.21051	-3.968
Ak7	-0.122	3.577103	-2.20956	0.04504	0.230768	-4.14163
Myo7b	-0.12348	3.84215	-2.34836	0.034744	0.204142	-3.90779
Guca1a	-0.12496	3.535504	-2.26553	0.040582	0.219749	-4.04804
Dnajb3	-0.13068	3.282155	-2.2933	0.038529	0.213895	-4.00126
Hoxa3	-0.13194	3.678903	-2.2344	0.043007	0.226835	-4.10021
A4gnt	-0.1346	3.341228	-2.44001	0.029215	0.189508	-3.75032
Olfr770	-0.13588	3.215749	-2.40127	0.031441	0.196141	-3.81715
Wnt3a	-0.13687	3.913822	-2.32389	0.03638	0.208341	-3.94944
Cyp2c53-p	-0.13811	3.029333	-2.51961	0.025107	0.175323	-3.61183
Oosp2	-0.13981	3.456623	-2.33582	0.035573	0.206223	-3.92915
F5	-0.14124	3.555518	-2.38627	0.032346	0.197804	-3.84293
Gm14025	-0.14153	3.555617	-2.67881	0.018496	0.151298	-3.33067
Th	-0.14175	3.701586	-2.36618	0.033596	0.201251	-3.87734
Abca14	-0.14259	3.502272	-2.37126	0.033275	0.200371	-3.86865
Olfr850	-0.14405	3.340655	-2.184	0.047225	0.236695	-4.18402
Orc1	-0.1446	3.489387	-2.38895	0.032182	0.197395	-3.83832
R3hdml	-0.14561	3.899117	-2.48721	0.026707	0.180714	-3.66838
Vmn2r16	-0.14569	3.299875	-2.56947	0.022823	0.167271	-3.52434
Tshb	-0.14586	3.466704	-2.36619	0.033596	0.201251	-3.87734
Gm8212	-0.14589	3.225719	-2.2671	0.040464	0.219347	-4.04541
Faim2	-0.14609	3.934035	-2.16796	0.048646	0.239939	-4.2105
Rbm27	-0.14623	7.769823	-2.61502	0.020912	0.160601	-3.44393
270008912	-0.1473	3.35392	-2.31303	0.037129	0.21051	-3.96786
4930470H1	-0.14778	3.375412	-2.19114	0.046604	0.235195	-4.17219
Lipc	-0.14822	3.525581	-2.48937	0.026598	0.18032	-3.66462
Hcar2	-0.14826	3.633306	-2.67307	0.018702	0.152222	-3.3409
1700024F1	-0.14832	3.22646	-2.1677	0.048669	0.239939	-4.21093
6330409D2	-0.1488	3.663311	-2.36085	0.033935	0.202007	-3.88645
Olfr944	-0.14884	3.230757	-2.55114	0.023638	0.170528	-3.55656
Gabrd	-0.14905	4.154806	-2.38701	0.0323	0.197762	-3.84165
Rhox4f	-0.14914	3.333064	-2.16788	0.048653	0.239939	-4.21063
Vmn1r194	-0.14927	3.184071	-2.22657	0.043638	0.227956	-4.11328
Tmprss7	-0.14984	3.469269	-2.45776	0.028247	0.186313	-3.71957
Cldn34b3	-0.14995	3.021706	-2.6921	0.018028	0.149042	-3.30698
Mir451a	-0.15023	3.465574	-2.21897	0.044259	0.229126	-4.12596
Nxph1	-0.15025	3.46247	-2.2104	0.044969	0.23059	-4.14022
BE692007	-0.15036	3.257259	-2.65049	0.019533	0.155006	-3.38106
Vstm5	-0.15046	3.698046	-2.27122	0.040153	0.218858	-4.03848
Gm13985	-0.15111	3.406459	-2.42718	0.029936	0.191974	-3.77251
Vapb	-0.15118	7.771901	-2.35603	0.034245	0.20265	-3.8947
Lrrc19	-0.15136	3.400962	-2.82459	0.01395	0.131762	-3.06921
Reg4	-0.15172	3.540593	-2.30126	0.037958	0.212405	-3.98779
Ccdc155	-0.15203	3.712887	-2.53602	0.024332	0.17274	-3.5831
Prss51	-0.15212	3.823191	-2.2681	0.040388	0.219225	-4.04374

Zmat4	-0.15238	3.471171	-2.31626	0.036905	0.209874	-3.96238
D7Erttd143c	-0.15302	3.690253	-2.48105	0.027023	0.182017	-3.67911
Hils1	-0.15388	3.927294	-2.25555	0.041345	0.221709	-4.0648
1700064M	-0.15398	3.374345	-2.3577	0.034137	0.202446	-3.89184
1700029N1	-0.15416	3.437161	-2.73381	0.016632	0.143369	-3.23242
Rep15	-0.15434	3.519592	-2.19303	0.046441	0.234709	-4.16906
Gm26664	-0.15448	3.409497	-2.26868	0.040344	0.219225	-4.04275
Ckap2	-0.1545	3.38377	-2.54787	0.023787	0.170986	-3.56231
C86695	-0.15498	3.698554	-2.52297	0.024946	0.174974	-3.60594
Chrne	-0.15501	3.747448	-2.7944	0.014791	0.135469	-3.12362
Psg21	-0.15502	3.155075	-2.59846	0.021588	0.162878	-3.47321
Krtap16-1	-0.15545	3.737462	-2.39794	0.03164	0.196427	-3.82289
Prps1l1	-0.15621	3.447935	-2.30344	0.037803	0.212306	-3.98411
Ccdc170	-0.15697	4.073046	-2.44795	0.028779	0.188035	-3.73658
9130230L2	-0.15698	3.429893	-2.18011	0.047565	0.237359	-4.19044
Rph3a	-0.157	3.96618	-2.16359	0.04904	0.240744	-4.2177
Pcdh10	-0.15701	3.590113	-2.20205	0.045671	0.232519	-4.1541
Rhox2d	-0.15728	3.209527	-2.35529	0.034293	0.202789	-3.89597
1700006A1	-0.1576	3.207251	-2.51293	0.025429	0.176286	-3.62351
Cpa2	-0.15764	3.244912	-2.28968	0.03879	0.214718	-4.00737
Grik2	-0.15813	3.72359	-2.37029	0.033336	0.200449	-3.87031
Olf3	-0.15861	3.660768	-2.75405	0.015994	0.140614	-3.19614
Amigo3	-0.15868	3.889574	-2.37529	0.033024	0.199443	-3.86176
Olf38	-0.15891	3.244197	-2.92946	0.011377	0.118987	-2.87924
Fbxo41	-0.15913	3.95795	-2.26556	0.04058	0.219749	-4.04799
Cldn18	-0.15975	3.523071	-2.22041	0.044141	0.228949	-4.12357
Nptn	-0.1601	8.469103	-2.38795	0.032243	0.197623	-3.84004
Il13	-0.16019	3.877343	-2.4546	0.028417	0.186773	-3.72505
Tyr	-0.16128	3.394947	-2.85502	0.01315	0.127446	-3.01424
Msantd3	-0.16161	4.860762	-2.17678	0.047859	0.238146	-4.19594
Olf1195	-0.16171	3.418981	-2.43573	0.029454	0.190182	-3.75772
Hoxd4	-0.16179	3.719235	-2.38505	0.032421	0.197979	-3.84503
Nkain3	-0.16204	4.060908	-2.17831	0.047724	0.237671	-4.19342
Rgs16	-0.1624	3.936786	-2.58425	0.022185	0.164927	-3.49829
Mylk2	-0.16285	3.868935	-2.65389	0.019406	0.154807	-3.37501
LOC102636	-0.16314	3.342745	-2.16523	0.048892	0.240387	-4.21501
Rnase6	-0.16315	3.710985	-2.31216	0.03719	0.21051	-3.96934
Cyp1a2	-0.16319	3.702586	-2.249	0.041854	0.223135	-4.07579
Mrgprb4	-0.16365	3.211065	-2.40072	0.031474	0.196247	-3.8181
Gm16551	-0.16369	3.487083	-2.38324	0.032531	0.198411	-3.84812
Polk	-0.1637	4.253272	-2.42075	0.030303	0.192863	-3.7836
Vmn1r24	-0.16475	3.173568	-2.19847	0.045975	0.233398	-4.16004
Cbx5	-0.16484	6.573507	-2.40161	0.031421	0.196141	-3.81657
Astx2	-0.16514	3.051954	-2.98933	0.010124	0.112715	-2.77024
Grm2	-0.16515	3.648463	-2.65414	0.019396	0.154797	-3.37456
Ndn	-0.16515	4.474389	-2.18328	0.047287	0.236834	-4.1852
Serp1b6d	-0.16579	3.320507	-2.46674	0.027769	0.184384	-3.70399
BC051019	-0.16584	3.598638	-2.47603	0.027282	0.182517	-3.68784

Kcnh5	-0.16596	3.612249	-2.56858	0.022861	0.167354	-3.52589
Eddm3b	-0.16625	3.554489	-2.49546	0.02629	0.179203	-3.654
Kctd14	-0.1664	3.489065	-2.48087	0.027032	0.182017	-3.67942
Gkn2	-0.16676	3.674922	-3.05768	0.00886	0.106411	-2.64536
Gm2381	-0.16678	3.159692	-2.52615	0.024795	0.174472	-3.60039
Olf1350	-0.16682	3.80347	-2.2794	0.039544	0.216972	-4.02471
Myo16	-0.16684	3.527581	-2.31236	0.037176	0.21051	-3.969
Gm13247	-0.16712	3.17279	-2.40728	0.031085	0.195196	-3.80681
Oxgr1	-0.16719	3.3701	-2.90126	0.012019	0.121214	-2.93046
2210416O	-0.1674	3.703001	-2.53465	0.024395	0.17274	-3.58548
Aqp9	-0.16746	3.76246	-2.17066	0.048403	0.23956	-4.20604
Cpz	-0.16839	3.896761	-2.29763	0.038217	0.21282	-3.99394
Prlh	-0.16867	4.439428	-2.18448	0.047183	0.23658	-4.18323
C130040N	-0.16873	3.75019	-2.37799	0.032855	0.198988	-3.85712
8430423G	-0.16887	4.100622	-2.2781	0.03964	0.217156	-4.0269
Vmn1r202	-0.16894	3.129477	-2.74353	0.016322	0.142028	-3.215
Atp7b	-0.16934	4.183724	-2.3409	0.035235	0.20533	-3.9205
Gm17821	-0.16964	3.560116	-3.05806	0.008854	0.106411	-2.64467
Gspt2	-0.16976	3.656659	-2.87549	0.012637	0.124663	-2.97718
Gm13807	-0.1699	3.612315	-2.38132	0.03265	0.19855	-3.85142
Lypd8	-0.16998	3.592746	-2.2695	0.040283	0.219147	-4.04137
Lrch2	-0.17022	3.986588	-2.30014	0.038038	0.212595	-3.98969
Tsx	-0.17022	4.119642	-2.23967	0.042588	0.225646	-4.09141
Ddx55	-0.17077	4.60065	-2.21757	0.044374	0.229137	-4.12829
Eva1b	-0.17087	4.018405	-2.25141	0.041666	0.222516	-4.07175
Hvcn1	-0.17123	3.846024	-2.22069	0.044118	0.228938	-4.12309
Rassf10	-0.17152	3.813085	-2.30211	0.037898	0.212389	-3.98636
Ano2	-0.17162	3.71896	-2.45689	0.028294	0.186524	-3.72109
Gm15997	-0.17166	3.90017	-2.21273	0.044775	0.229968	-4.13635
St8sia3	-0.17188	3.553953	-2.73992	0.016437	0.142576	-3.22148
1700016G1	-0.17205	3.3907	-2.91522	0.011697	0.120141	-2.90512
Chst5	-0.17234	4.032155	-2.1659	0.048831	0.240237	-4.2139
Rltpr	-0.17236	4.025065	-2.57678	0.022505	0.166115	-3.51146
Opr1	-0.1726	3.749313	-2.35245	0.034477	0.203345	-3.90081
Gm15471	-0.1726	3.585251	-2.55179	0.023608	0.170472	-3.55541
Enpp7	-0.17288	3.710275	-2.87513	0.012645	0.124685	-2.97782
Dnah1	-0.17296	3.642115	-2.75485	0.015969	0.140608	-3.1947
A730085K	-0.17321	3.704737	-2.39286	0.031945	0.197039	-3.8316
Gm16582	-0.17341	3.426233	-2.62507	0.020512	0.159007	-3.42614
Slc9a5	-0.17364	4.066989	-2.19457	0.046309	0.234421	-4.16651
Cyp4x1	-0.17367	4.049398	-2.21989	0.044184	0.229025	-4.12443
Cdc123	-0.17368	9.133213	-2.51513	0.025322	0.17589	-3.61966
Il12rb1	-0.17372	3.883518	-2.80696	0.014435	0.13377	-3.101
Gm5712	-0.17399	3.536621	-2.56975	0.02281	0.167271	-3.52383
Gm15523	-0.17444	4.557314	-2.50927	0.025607	0.176732	-3.6299
Gm16174	-0.17512	4.18555	-2.33102	0.035895	0.206965	-3.93731
D730048I0	-0.17524	3.294458	-2.76191	0.015752	0.139409	-3.18204
Olf447	-0.17535	3.647675	-2.28462	0.03916	0.215753	-4.01591

Dpys	-0.17549	3.442529	-2.42749	0.029918	0.191974	-3.77196
Tmem182	-0.17609	11.67497	-2.34353	0.035061	0.205001	-3.91602
1700046CC	-0.17611	3.216065	-2.86986	0.012776	0.125363	-2.98738
Sox5os3	-0.17647	3.591451	-2.16843	0.048604	0.239939	-4.20973
Usp7	-0.1765	7.786424	-2.92924	0.011382	0.118989	-2.87965
Clic3	-0.17659	3.996016	-2.45816	0.028225	0.186301	-3.71888
943006010	-0.17667	3.540003	-2.1783	0.047725	0.237671	-4.19344
2300005BC	-0.17681	3.760471	-2.29455	0.038438	0.213583	-3.99914
Scpep1os	-0.17696	3.770896	-2.2174	0.044389	0.229137	-4.12858
Lrrc10b	-0.17699	3.803026	-2.29165	0.038648	0.214318	-4.00405
Hecw1	-0.17714	3.629286	-2.26746	0.040436	0.219295	-4.04481
Slc2a2	-0.17724	3.84815	-2.21099	0.04492	0.230537	-4.13925
Rab44	-0.17726	4.321528	-2.47239	0.027472	0.183341	-3.69417
Gm11494	-0.17768	3.500354	-2.26074	0.040947	0.220997	-4.05609
Cnot10	-0.17787	5.682061	-2.28241	0.039322	0.216368	-4.01963
Wfdc5	-0.17818	3.556827	-2.42223	0.030218	0.192568	-3.78104
Fam69c	-0.17828	3.81711	-2.87721	0.012594	0.124572	-2.97406
1700019M	-0.17855	3.117594	-2.84394	0.013436	0.12907	-3.03426
Htr1a	-0.17859	3.593892	-2.46263	0.027987	0.185039	-3.71112
Gpr142	-0.17885	4.037204	-2.22126	0.044072	0.228826	-4.12215
Cnpy1	-0.17891	3.527734	-2.23864	0.042669	0.225934	-4.09313
Lamb2	-0.17905	9.339837	-2.1628	0.049112	0.241001	-4.219
Nudt5	-0.17906	4.995592	-2.23488	0.042969	0.22678	-4.09941
4921517D	-0.17911	3.626265	-2.76613	0.015624	0.138772	-3.17445
Gm16142	-0.17991	3.871062	-2.29299	0.038551	0.213922	-4.00177
Cacna1b	-0.17992	3.815474	-2.49477	0.026325	0.179203	-3.65521
Defb28	-0.17998	3.50205	-2.25314	0.041531	0.22218	-4.06885
Gm17783	-0.18002	3.531408	-2.36645	0.033579	0.201245	-3.87688
10C0044D1	-0.18004	3.571518	-2.93238	0.011313	0.118764	-2.87395
Ctrb1	-0.18007	3.959525	-2.82155	0.014033	0.13214	-3.0747
Dsp	-0.18031	11.65887	-2.49577	0.026275	0.179203	-3.65347
Olf1337	-0.18034	4.035968	-2.53481	0.024388	0.17274	-3.58521
Lmtk3	-0.18035	4.021966	-2.58647	0.022091	0.164597	-3.49438
Tbr1	-0.18043	3.343869	-2.82707	0.013883	0.131622	-3.06473
Fezf1	-0.18062	3.698022	-2.33573	0.035579	0.206223	-3.9293
LOC10263	-0.18078	4.51752	-2.38994	0.032122	0.197284	-3.83663
Khdrbs2	-0.18088	3.665582	-2.58184	0.022288	0.165397	-3.50255
Des	-0.18103	12.02407	-2.51446	0.025355	0.176026	-3.62083
Pigf	-0.18129	4.13022	-2.26818	0.040382	0.219225	-4.04359
Galnt9	-0.18143	3.931747	-2.6244	0.020539	0.159113	-3.42733
Cdc7	-0.18186	3.723521	-2.61959	0.02073	0.159856	-3.43585
1700116BC	-0.18244	3.763026	-2.39549	0.031787	0.196662	-3.8271
Fam193b	-0.18245	5.358483	-2.55771	0.023343	0.169579	-3.54502
Gpr173	-0.18251	3.641169	-2.62564	0.02049	0.158912	-3.42513
1700023C2	-0.18251	3.51226	-2.63949	0.019951	0.156691	-3.40058
Firre	-0.18252	6.006724	-2.18019	0.047558	0.237359	-4.19031
Zfp428	-0.18253	3.618617	-2.96547	0.010606	0.11479	-2.81372
Pabpc1l	-0.18256	3.651967	-2.42984	0.029785	0.191527	-3.7679

4930548K1	-0.18265	3.449529	-2.48952	0.02659	0.18032	-3.66435
Krt77	-0.18271	3.889686	-2.55548	0.023442	0.170065	-3.54893
Rhox5	-0.18289	3.801376	-2.29972	0.038067	0.212616	-3.99039
Gm16863	-0.18313	4.300037	-2.6526	0.019454	0.154861	-3.37731
Tuft1	-0.18316	3.595105	-2.30772	0.037501	0.211546	-3.97687
Gm5331	-0.18324	3.620539	-2.61955	0.020731	0.159856	-3.43592
Atp1b4	-0.18331	3.59365	-2.45444	0.028426	0.186773	-3.72533
Olfr371	-0.18364	3.377176	-3.39321	0.0046	0.077427	-2.02824
BC048679	-0.18387	3.85582	-2.35332	0.03442	0.203155	-3.89932
9530003J2	-0.18404	3.530865	-2.64725	0.019656	0.155567	-3.38681
G630093K	-0.18441	3.727456	-2.34522	0.034949	0.204726	-3.91314
Gm2694	-0.18515	3.662391	-2.41153	0.030836	0.194714	-3.79949
H2-T10	-0.18531	3.80196	-2.64833	0.019615	0.155392	-3.38489
Ccl28	-0.18541	3.943185	-2.49773	0.026177	0.179011	-3.65004
Hoxc5	-0.18559	3.287739	-3.31751	0.005333	0.083228	-2.16783
Ccser1	-0.18562	3.677697	-2.28918	0.038827	0.21472	-4.00821
Optc	-0.18566	3.897893	-2.4795	0.027102	0.182091	-3.68181
Il22ra1	-0.18567	3.827577	-2.18031	0.047548	0.237359	-4.19011
Cul2	-0.1858	7.097853	-2.62573	0.020486	0.158912	-3.42498
Lrrc71	-0.18588	4.040931	-2.23149	0.043241	0.227315	-4.10509
Pantr1	-0.18592	3.84747	-2.18089	0.047497	0.237359	-4.18915
2700049AC	-0.18635	5.087002	-2.25523	0.04137	0.221728	-4.06534
A930001A2	-0.18662	3.341015	-2.87606	0.012623	0.124572	-2.97614
Lrrc26	-0.18666	4.132746	-2.23898	0.042642	0.225838	-4.09256
Ankle1	-0.18682	4.415219	-2.33422	0.035681	0.206402	-3.93188
Mkks	-0.18703	5.273512	-2.33443	0.035666	0.206402	-3.93151
Fam13c	-0.18724	4.781219	-2.25584	0.041323	0.221709	-4.06431
Dydc1	-0.18732	3.443288	-2.51181	0.025483	0.176497	-3.62546
Btn2a2	-0.18733	3.3383	-2.5951	0.021728	0.16334	-3.47915
A930018P2	-0.18748	4.208667	-2.43969	0.029233	0.18955	-3.75087
Vmn2r105	-0.18763	3.201596	-2.37022	0.033341	0.200449	-3.87044
Gm6568	-0.18763	3.590836	-2.23324	0.0431	0.226909	-4.10215
Fam178b	-0.18768	3.734531	-2.85539	0.01314	0.127404	-3.01356
Slc13a4	-0.18809	4.040719	-2.62762	0.020412	0.158724	-3.42162
Mad2l1bp	-0.18817	4.623364	-2.27938	0.039545	0.216972	-4.02474
Dytn	-0.18822	3.764938	-2.42187	0.030238	0.19265	-3.78166
Htr5a	-0.18834	4.008369	-2.41104	0.030865	0.194747	-3.80034
Gm7276	-0.18837	4.338757	-2.22597	0.043687	0.227973	-4.11429
Mroh6	-0.18842	4.087596	-2.32207	0.036504	0.208682	-3.95252
Jph3	-0.18896	3.487959	-2.35226	0.034489	0.203345	-3.90114
1500015L2	-0.18925	3.332377	-2.60711	0.021233	0.161865	-3.45792
Gm960	-0.18942	3.725847	-2.45289	0.028509	0.186955	-3.72802
Olfr345	-0.18984	3.350069	-2.20604	0.045335	0.231516	-4.14747
2210409DC	-0.19005	3.931422	-2.24321	0.042307	0.224735	-4.08548
Ptprcap	-0.19007	4.159359	-2.391	0.032057	0.19719	-3.8348
Serpina11	-0.19018	3.724165	-2.47732	0.027215	0.182315	-3.6856
Fut1	-0.19025	3.585702	-2.83369	0.013706	0.130596	-3.05278
Slc14a2	-0.19027	3.653809	-2.41456	0.03066	0.194094	-3.79427

4930481BC	-0.19041	3.868827	-2.2645	0.04066	0.220085	-4.04977
Prkag1	-0.1905	9.228644	-2.33029	0.035945	0.206994	-3.93856
P3h3	-0.19064	5.416236	-2.22226	0.043989	0.228638	-4.12048
Cyp46a1	-0.19065	4.032115	-2.2356	0.042912	0.226685	-4.09822
Actl6b	-0.191	3.50541	-2.53943	0.024174	0.172575	-3.57712
Olf686	-0.19159	3.595205	-2.21449	0.044629	0.229611	-4.13342
Guca2a	-0.19183	4.023061	-2.72735	0.016841	0.14442	-3.24399
Mir551b	-0.19186	3.665868	-2.29303	0.038548	0.213922	-4.00171
Ptx4	-0.19219	3.584812	-2.59127	0.021888	0.163799	-3.48591
4930568E1	-0.19227	3.881648	-2.18535	0.047107	0.236365	-4.18178
P2rx1	-0.19236	3.800547	-2.22699	0.043604	0.227942	-4.11259
Slc2a10	-0.19257	4.391018	-2.82234	0.014011	0.131987	-3.07327
Myh4	-0.19264	3.353064	-3.15465	0.007332	0.096642	-2.46758
A730090H	-0.19277	3.401093	-2.44036	0.029196	0.189459	-3.74972
Olf591	-0.19282	3.289819	-2.21739	0.04439	0.229137	-4.1286
Cdc20b	-0.1929	4.011785	-2.30846	0.037449	0.211396	-3.97561
Arhgap15c	-0.19324	3.339334	-3.39535	0.004581	0.077427	-2.02428
Gm10847	-0.19326	3.61447	-2.34204	0.035159	0.20513	-3.91856
Cldn34b2	-0.19378	3.451531	-2.3163	0.036902	0.209874	-3.96232
Gm20750	-0.19382	3.479589	-2.61164	0.021049	0.161233	-3.44992
Nomo1	-0.19383	7.920502	-2.51667	0.025248	0.175619	-3.61696
Msl1	-0.19392	3.798303	-2.69148	0.018049	0.14917	-3.30808
Slc46a1	-0.19405	4.793761	-2.65596	0.019328	0.154459	-3.37133
Igfl3	-0.19426	3.432168	-3.07729	0.008528	0.104487	-2.60946
Grin2c	-0.19436	3.855048	-2.89213	0.012234	0.122094	-2.94703
Gm8587	-0.19441	3.281782	-2.65732	0.019278	0.154247	-3.36891
Foxo4	-0.19445	5.330346	-2.74242	0.016357	0.142234	-3.21699
4930511E0	-0.1947	3.515038	-2.91595	0.01168	0.120141	-2.9038
4930448F1	-0.1948	3.302501	-2.59655	0.021668	0.16313	-3.47659
Psmc3	-0.19489	9.046434	-2.23802	0.042719	0.226099	-4.09417
Otog	-0.19499	3.872396	-2.42663	0.029967	0.192053	-3.77345
Cyb5b	-0.19511	7.817159	-2.35011	0.034629	0.203657	-3.90479
Wnt7a	-0.19511	4.024841	-2.43431	0.029533	0.190502	-3.76018
4930401C1	-0.19518	3.795478	-3.02902	0.00937	0.108875	-2.69777
Akap6	-0.19533	9.253574	-2.27353	0.03998	0.218332	-4.03459
Fbxo5	-0.19536	3.869363	-2.2551	0.04138	0.221728	-4.06556
Sdcbp2	-0.19554	4.050181	-2.19931	0.045904	0.233215	-4.15865
Ptchd2	-0.19563	3.938482	-3.10686	0.008049	0.101627	-2.55528
St8sia3os	-0.19574	3.618763	-2.63239	0.020226	0.158017	-3.41317
Mast1	-0.19581	3.669266	-2.15638	0.049696	0.242627	-4.22956
Gm10857	-0.19588	3.463993	-2.8761	0.012622	0.124572	-2.97607
Gm17801	-0.19594	3.427178	-2.27816	0.039635	0.217156	-4.02679
Htr2c	-0.19607	3.538686	-2.53731	0.024272	0.17274	-3.58084
Akr1c12	-0.19607	3.109565	-2.3383	0.035408	0.205665	-3.92493
Gak	-0.19612	6.652917	-2.16617	0.048807	0.240219	-4.21345
Osr2	-0.19612	3.749596	-2.80297	0.014548	0.134134	-3.10819
Ppapdc1a	-0.19623	4.076362	-2.6104	0.021099	0.161342	-3.45212
Ssxb3	-0.19625	3.38812	-2.21868	0.044283	0.229126	-4.12645

9830107B1	-0.19631	3.671622	-2.30345	0.037803	0.212306	-3.9841
Tcaf3	-0.19647	3.625071	-3.2508	0.006076	0.088227	-2.29076
Prr23a1	-0.19652	3.676561	-2.19697	0.046103	0.233935	-4.16253
Nkg7	-0.19662	3.824134	-2.82341	0.013982	0.131867	-3.07134
Adam34	-0.19729	3.232408	-2.37069	0.033311	0.200415	-3.86963
Gm4211	-0.1973	3.421368	-2.44547	0.028914	0.188466	-3.74087
Trim31	-0.19737	3.492869	-2.63022	0.02031	0.15828	-3.41702
P4ha3	-0.19763	3.683411	-2.99842	0.009947	0.112243	-2.75365
Phc2	-0.19784	5.04854	-2.98812	0.010148	0.112746	-2.77245
Lck	-0.19799	3.666304	-2.4627	0.027983	0.185039	-3.71099
Cdk1	-0.19801	3.450962	-2.89557	0.012153	0.121746	-2.94078
Gm5161	-0.19816	4.038776	-2.85371	0.013183	0.127671	-3.0166
Gm11946	-0.19824	3.811851	-2.84618	0.013377	0.128749	-3.03021
Tmprss12	-0.19825	3.333572	-3.09441	0.008247	0.102824	-2.57811
Smg1	-0.19862	8.412082	-2.23202	0.043198	0.227136	-4.10419
Vmn1r143	-0.19888	3.184903	-2.34164	0.035185	0.205186	-3.91923
Nus1	-0.19889	8.516117	-2.2698	0.04026	0.219147	-4.04087
Zfp81	-0.1993	4.200316	-2.41691	0.030524	0.193528	-3.79022
Rpl24	-0.19948	3.420688	-2.39926	0.031561	0.196396	-3.82062
1700003DC	-0.1995	4.260276	-2.39868	0.031595	0.196396	-3.82161
Mpo	-0.19967	3.784117	-2.20956	0.045039	0.230768	-4.14162
Vmn1r232	-0.19972	3.49747	-2.42986	0.029784	0.191527	-3.76787
Btnl2	-0.19989	3.832915	-2.38034	0.03271	0.198723	-3.8531
1700018C1	-0.20001	3.796234	-2.47991	0.027081	0.182091	-3.68109
Ctnna1	-0.20063	9.894477	-2.2096	0.045036	0.230768	-4.14155
Ces2h	-0.20077	3.399698	-2.23245	0.043164	0.227053	-4.10348
Slc18a2	-0.2008	3.822128	-2.39188	0.032004	0.197039	-3.83329
Trpv6	-0.20095	3.643095	-2.27156	0.040128	0.218766	-4.03791
Igkv4-50	-0.20102	3.362708	-2.41004	0.030924	0.194856	-3.80206
Kctd7	-0.20128	4.37462	-2.39883	0.031587	0.196396	-3.82136
Akap14	-0.2019	3.489217	-2.40963	0.030948	0.194856	-3.80277
Wbp1l	-0.20205	8.282766	-2.24403	0.042243	0.224616	-4.08412
Cdh26	-0.20208	3.936801	-2.23302	0.043118	0.226956	-4.10252
Tspyl2	-0.20232	6.955967	-2.56282	0.023115	0.168419	-3.53603
Prpf31	-0.20249	5.674632	-2.15805	0.049543	0.242108	-4.22681
Olf1r1499	-0.20252	3.2997	-2.50121	0.026004	0.178383	-3.64398
Kat2b	-0.20256	7.963826	-2.5017	0.02598	0.178265	-3.64312
S100a14	-0.20259	3.877789	-2.47839	0.02716	0.182237	-3.68373
Epha8	-0.20265	3.924311	-2.51851	0.025159	0.175556	-3.61375
Cyp2c37	-0.20267	3.331607	-2.91558	0.011689	0.120141	-2.90447
Gm12130	-0.20273	3.342159	-2.67532	0.018621	0.152048	-3.33688
4930515BC	-0.20278	3.456309	-3.2214	0.006435	0.090568	-2.34487
Mmel1	-0.20288	3.806274	-2.63987	0.019937	0.156691	-3.39991
Pdzk1ip1	-0.20289	4.215447	-2.30015	0.038037	0.212595	-3.98967
Them7	-0.20313	4.090654	-2.66657	0.018937	0.153337	-3.35246
Smlr1	-0.20333	3.957011	-2.17016	0.048448	0.239687	-4.20687
Igf2r	-0.20336	8.665575	-2.50657	0.025739	0.177204	-3.63462
Osbpl5	-0.20345	4.693197	-2.25777	0.041175	0.221398	-4.06109

Ggct	-0.20355	4.544712	-3.26773	0.005878	0.087084	-2.25956
Gtsf1l	-0.20361	3.407958	-3.63316	0.002882	0.062351	-1.58562
Tmem132k	-0.20372	3.814972	-2.2001	0.045837	0.233121	-4.15733
Lgi2	-0.20381	3.81053	-2.46485	0.027869	0.184701	-3.70727
Cyp2g1	-0.20388	3.346137	-3.15902	0.007269	0.096052	-2.45956
Npnt	-0.20404	4.115429	-2.69573	0.017902	0.148595	-3.30051
Nipa2	-0.20434	5.116092	-2.91764	0.011642	0.12004	-2.90072
Hmx3	-0.20448	4.247041	-2.29847	0.038157	0.21282	-3.99251
Hcst	-0.20487	3.923199	-3.05444	0.008917	0.106777	-2.65129
Dusp26	-0.20497	4.106498	-2.57556	0.022558	0.166143	-3.51361
Fam132b	-0.20517	3.970574	-2.3666	0.033569	0.201237	-3.87662
Fam19a4	-0.2053	3.927624	-3.35321	0.004974	0.080294	-2.10202
Aurkb	-0.20537	3.868018	-2.30103	0.037974	0.212405	-3.98818
Uchl1os	-0.20548	3.779097	-2.21504	0.044583	0.229533	-4.1325
Olf1r518	-0.20563	3.795378	-3.00969	0.00973	0.111011	-2.73308
Kcnh4	-0.20573	3.663332	-2.91589	0.011682	0.120141	-2.9039
Gm26511	-0.2058	3.839891	-2.25158	0.041653	0.222495	-4.07147
Usp17le	-0.20621	3.656008	-2.17234	0.048253	0.239104	-4.20327
Fam196b	-0.20631	3.782508	-3.12313	0.007797	0.099356	-2.52544
Klhdc9	-0.20635	3.968765	-2.74529	0.016267	0.141878	-3.21186
Tmem61	-0.20645	3.545375	-3.05094	0.008978	0.106942	-2.65769
Dnase1l3	-0.20656	3.436842	-3.26151	0.00595	0.087525	-2.27103
E030013119	-0.20671	3.517331	-2.54623	0.023861	0.171255	-3.56519
4930502AC	-0.20681	3.846544	-2.75847	0.015857	0.13994	-3.1882
1700021N2	-0.20682	4.072047	-3.01246	0.009678	0.110879	-2.72802
Ccdc105	-0.20719	3.763757	-2.81045	0.014338	0.133449	-3.09471
Hmgcl	-0.20734	7.72934	-2.2046	0.045456	0.231849	-4.14986
Rmi2	-0.20734	3.721035	-3.84645	0.001906	0.051748	-1.19344
Tmc5	-0.2076	3.859416	-2.44547	0.028914	0.188466	-3.74087
Rgs8	-0.20788	3.982651	-2.42575	0.030017	0.192176	-3.77497
4930581F2	-0.20796	4.221541	-3.136	0.007604	0.098146	-2.50181
Mapk14	-0.20806	6.339166	-3.08411	0.008415	0.103922	-2.59698
Pygb	-0.20817	11.20256	-3.02455	0.009452	0.109319	-2.70595
2310015A1	-0.2082	5.175035	-2.93161	0.01133	0.118849	-2.87534
Nr5a1	-0.20839	3.678928	-3.13485	0.007621	0.09819	-2.50392
Txn14b	-0.20864	4.818207	-2.35146	0.034541	0.203418	-3.9025
Gm5919	-0.20872	3.700166	-2.49229	0.02645	0.179607	-3.65952
Ppt1	-0.2089	8.980509	-3.33463	0.005158	0.081722	-2.13628
Vopp1	-0.20926	4.431668	-2.47388	0.027394	0.182969	-3.69157
Usp26	-0.2096	3.513362	-3.1382	0.007571	0.098031	-2.49778
Gm4454	-0.20974	3.404162	-2.17368	0.048134	0.238886	-4.20107
Tmem248	-0.20981	7.526116	-2.18401	0.047223	0.236695	-4.18399
Platr26	-0.20995	3.97071	-2.29363	0.038504	0.213855	-4.00069
Susd4	-0.21005	4.111608	-2.56749	0.02291	0.167495	-3.52782
Fibcd1	-0.2101	4.422455	-2.58736	0.022053	0.16444	-3.49281
Nucks1	-0.21014	7.490472	-2.27051	0.040206	0.219002	-4.03967
LOC102633	-0.21018	3.619683	-3.46956	0.003963	0.071814	-1.88737
Ncan	-0.21024	4.037703	-2.4014	0.031433	0.196141	-3.81693



Gm11725	-0.21038	3.553094	-3.26681	0.005889	0.087093	-2.26126
Agap3	-0.21057	5.308126	-2.23434	0.043012	0.226835	-4.10032
A230056P1	-0.21066	3.851374	-2.26835	0.040369	0.219225	-4.04331
Trem1	-0.21081	4.2333	-3.25214	0.00606	0.0881	-2.28829
Ttc34	-0.21107	4.294205	-3.272	0.005829	0.086626	-2.25171
Cacng5	-0.21117	3.845503	-2.39533	0.031796	0.196662	-3.82737
Olf142	-0.21192	3.084794	-2.94539	0.01103	0.116978	-2.85028
Lhfp14	-0.21196	4.064265	-2.93085	0.011346	0.118866	-2.87672
Kazn	-0.2122	4.118512	-2.52369	0.024912	0.174974	-3.60469
I730030J21	-0.21227	3.509749	-2.63825	0.019999	0.156933	-3.40279
Dnase1	-0.2124	3.715986	-2.93022	0.01136	0.118913	-2.87787
Wdr92	-0.21254	5.427419	-2.32697	0.03617	0.207637	-3.94419
1810046KC	-0.21265	3.798459	-2.21584	0.044517	0.229533	-4.13117
Gdpd3	-0.21266	3.969925	-2.28016	0.039488	0.216875	-4.02342
Tenm1	-0.21294	3.501926	-3.2638	0.005923	0.087289	-2.26682
Ralbp1	-0.21308	6.212796	-2.35108	0.034566	0.203481	-3.90314
Wwp1	-0.21311	9.282118	-2.63993	0.019934	0.156691	-3.3998
Mfsd7c	-0.21326	4.271461	-2.57191	0.022716	0.166882	-3.52004
Tnfrsf18	-0.21329	4.368942	-2.28529	0.03911	0.215631	-4.01477
Krt34	-0.21349	3.86477	-2.96871	0.01054	0.114616	-2.80782
Pak1	-0.21354	4.026694	-2.59986	0.02153	0.162659	-3.47074
Aldh1a3	-0.21359	3.723041	-2.26862	0.040348	0.219225	-4.04285
Hcrtr1	-0.21387	3.668291	-2.57909	0.022406	0.165796	-3.50739
10-Mar	-0.21388	3.678299	-2.6748	0.01864	0.152077	-3.33782
Drd5	-0.21423	4.107566	-3.27134	0.005837	0.086679	-2.25291
Hpse2	-0.21441	3.616999	-2.42012	0.030339	0.193043	-3.78469
Gm10684	-0.21446	3.356556	-3.41014	0.004451	0.076357	-1.997
Kcnj4	-0.21447	4.080753	-2.47975	0.027089	0.182091	-3.68136
Cxcr5	-0.21464	3.809101	-2.37332	0.033146	0.199907	-3.86513
Ints8	-0.21503	6.320543	-2.43038	0.029754	0.191482	-3.76698
Tmem8c	-0.21503	3.6765	-3.05014	0.008992	0.106956	-2.65916
Gse1	-0.2151	4.966017	-2.5525	0.023576	0.170415	-3.55416
Olf934	-0.21513	3.328309	-3.56482	0.003292	0.066281	-1.71162
Spats1	-0.21578	3.725689	-3.13368	0.007638	0.098235	-2.50607
Gdf5	-0.21581	4.02084	-2.55286	0.02356	0.170415	-3.55354
Mgat1	-0.21598	4.812256	-2.3392	0.035348	0.205554	-3.9234
4933415F2	-0.21599	3.818114	-2.31469	0.037014	0.210327	-3.96505
Tsc22d3	-0.21632	6.618401	-3.13085	0.007681	0.098612	-2.51127
Mroh4	-0.21656	3.493934	-2.91204	0.011769	0.120438	-2.91089
Plet1	-0.21668	4.323302	-2.82687	0.013888	0.131622	-3.06508
Ccdc67	-0.2167	3.964159	-2.78472	0.015071	0.137043	-3.14105
Rpl7l1	-0.21693	4.719011	-2.19997	0.045848	0.23313	-4.15755
Psg29	-0.2172	3.901572	-3.4957	0.003766	0.070031	-1.83912
Mefv	-0.21721	3.474808	-2.56294	0.02311	0.168419	-3.53582
Pfkl	-0.21724	7.197693	-2.45509	0.02839	0.186772	-3.7242
Gucy2c	-0.21729	3.772458	-2.16071	0.049301	0.241398	-4.22244
Fcor	-0.2174	3.91905	-2.86065	0.013006	0.126701	-3.00404
Igkv16-10 <sup>L</sup>	-0.21743	3.455249	-2.20155	0.045714	0.232686	-4.15493

4930470P1	-0.21751	3.390107	-3.70164	0.002523	0.058677	-1.4595
Gm16835	-0.21751	3.621957	-2.18855	0.046828	0.23567	-4.17648
Cnot6l	-0.21766	7.906633	-2.23712	0.04279	0.226334	-4.09568
Olf1r536	-0.21782	3.995258	-2.60834	0.021183	0.161732	-3.45576
Gm5396	-0.21798	4.656959	-2.30361	0.037791	0.212306	-3.98382
4932418E2	-0.21829	3.780585	-2.50891	0.025625	0.176807	-3.63054
Mesdc2	-0.21832	7.611871	-2.59248	0.021837	0.163665	-3.48377
Esp38	-0.21849	3.267137	-2.95596	0.010805	0.115914	-2.83104
Dscaml1	-0.21854	3.725449	-2.80844	0.014394	0.13377	-3.09833
Gm6346	-0.21859	3.373858	-2.23347	0.043082	0.226909	-4.10177
Rbm28	-0.21864	5.56939	-2.65765	0.019266	0.154199	-3.36832
Ccl22	-0.21866	3.539027	-3.04132	0.009148	0.108038	-2.6753
Unc5c	-0.2187	3.846622	-3.52308	0.003571	0.068153	-1.78862
Sync	-0.21884	8.102169	-2.30469	0.037715	0.212125	-3.98199
LOC102637	-0.21896	4.608132	-2.97167	0.010479	0.114308	-2.80243
Zfp62	-0.21905	5.907077	-2.22962	0.043391	0.227575	-4.10819
Rgs14	-0.21906	3.886241	-2.54826	0.023769	0.170986	-3.56163
Prss8	-0.21907	4.157391	-2.46494	0.027864	0.184701	-3.70711
Rbm8a	-0.21918	4.171821	-2.17436	0.048074	0.238735	-4.19994
Tbx1	-0.21934	4.204619	-2.71814	0.017144	0.145608	-3.26048
BB283400	-0.21941	3.537103	-2.56628	0.022963	0.1677	-3.52995
Lrrc31	-0.21941	3.545403	-2.98268	0.010256	0.113121	-2.78236
Fbxw18	-0.21956	3.238202	-2.96787	0.010557	0.114616	-2.80935
3110035E1	-0.22011	3.8849	-2.1913	0.04659	0.235174	-4.17192
Iqcf6	-0.22027	3.859187	-3.18944	0.00685	0.093296	-2.40365
Gm1661	-0.2203	3.831987	-2.29697	0.038264	0.212997	-3.99504
Ube2c	-0.22035	3.940526	-2.46191	0.028025	0.185244	-3.71238
Klk9	-0.22046	3.932414	-3.09621	0.008218	0.102667	-2.57479
Pigr	-0.22053	3.885586	-3.08178	0.008453	0.104078	-2.60123
Olf1r323	-0.221	3.989922	-2.51693	0.025236	0.175619	-3.61652
2310065F0	-0.22108	3.65191	-2.46961	0.027617	0.183821	-3.699
Prph2	-0.22117	4.124605	-2.29524	0.038389	0.213356	-3.99797
Flot2	-0.22118	7.47307	-2.53553	0.024354	0.17274	-3.58394
Ccdc114	-0.22136	3.740802	-2.8399	0.013541	0.129726	-3.04156
Asphd2	-0.22139	4.180318	-2.37769	0.032874	0.198988	-3.85763
Klk12	-0.22172	3.874247	-2.33631	0.035541	0.206193	-3.92832
Rnf11	-0.22184	8.604574	-2.15841	0.049511	0.242005	-4.22623
Caprin1	-0.22199	5.745612	-2.43759	0.02935	0.189951	-3.75452
Cadm2	-0.22204	3.62018	-3.00135	0.00989	0.111856	-2.7483
Esp1	-0.22215	3.882657	-3.14473	0.007475	0.097601	-2.48579
Rpl39l	-0.22225	3.988649	-2.18328	0.047287	0.236834	-4.1852
Napsa	-0.22228	3.840439	-2.26947	0.040285	0.219147	-4.04143
Trim43b	-0.22233	3.386476	-2.23003	0.043359	0.227575	-4.10752
Loxhd1	-0.22254	3.873676	-2.57565	0.022554	0.166143	-3.51345
5430416N0	-0.22261	3.678085	-3.18198	0.00695	0.094111	-2.41736
AU018091	-0.22261	3.666851	-2.29913	0.03811	0.212759	-3.99141
Cmtm7	-0.22278	5.129171	-2.65908	0.019213	0.154113	-3.36579
A930005H0	-0.2229	4.704468	-2.38168	0.032628	0.198536	-3.85081

4930555B1	-0.22291	3.468625	-2.70791	0.017486	0.147206	-3.27876
Zfp503	-0.22295	4.313816	-3.30538	0.005461	0.083865	-2.1902
Ms4a15	-0.22299	3.906899	-2.25468	0.041413	0.221728	-4.06627
Kap	-0.22313	3.3357	-2.84849	0.013317	0.128471	-3.02603
Arl13a	-0.22318	3.542787	-2.71061	0.017395	0.146747	-3.27393
Duox2	-0.22324	3.688753	-2.50621	0.025757	0.17724	-3.63524
Npc1l1	-0.2233	4.177251	-2.36486	0.03368	0.201461	-3.8796
Gm5134	-0.22383	3.623354	-2.46687	0.027762	0.184384	-3.70375
Cfc1	-0.2239	4.110706	-2.76365	0.015699	0.139138	-3.17892
Extl3	-0.2239	7.537462	-2.25329	0.04152	0.222167	-4.0686
Zcchc12	-0.2242	3.380008	-2.82751	0.013871	0.131617	-3.06394
Ppp1r17	-0.2244	3.615339	-2.45914	0.028173	0.186024	-3.71718
Col11a2	-0.22442	3.9437	-3.50274	0.003715	0.06965	-1.82615
Tusc1	-0.22448	4.685287	-2.24066	0.042509	0.22542	-4.08975
Rps6ka1	-0.22454	4.575716	-2.54329	0.023996	0.171813	-3.57034
Inhbc	-0.22455	3.889026	-3.56163	0.003312	0.0664	-1.7175
Gm5334	-0.22461	3.403566	-3.52951	0.003526	0.067927	-1.77674
Gm12121	-0.22484	4.204473	-2.42098	0.030289	0.192825	-3.78319
Slc25a54	-0.22495	3.4143	-2.63111	0.020276	0.158158	-3.41544
Kars	-0.22506	8.825948	-2.47454	0.027359	0.182836	-3.69042
Defb33	-0.22506	3.972185	-2.50998	0.025572	0.176732	-3.62866
Lman1l	-0.22528	4.105949	-3.18817	0.006867	0.093337	-2.40599
Mapkapk3	-0.22535	6.888302	-2.2397	0.042585	0.225646	-4.09136
5730435O	-0.2254	4.871675	-2.65526	0.019355	0.154545	-3.37257
Rprml	-0.22576	4.425532	-2.32735	0.036144	0.207561	-3.94355
Cers4	-0.22628	7.325823	-2.58279	0.022247	0.165254	-3.50087
Fign	-0.22631	3.992152	-2.32419	0.036359	0.208317	-3.94892
Cxcl10	-0.22631	3.864221	-2.42426	0.030102	0.19235	-3.77754
Glb1l	-0.22645	3.807919	-3.13927	0.007555	0.09798	-2.49582
Cyp4a30b	-0.22665	3.34875	-2.31931	0.036694	0.209175	-3.95721
Rusc2	-0.22681	5.855506	-2.24727	0.041989	0.223713	-4.07869
Sbpl	-0.22714	3.725866	-2.59974	0.021535	0.162659	-3.47096
Bok	-0.22721	4.847332	-2.45248	0.028532	0.187051	-3.72873
Rab9b	-0.22738	4.057858	-2.53272	0.024485	0.173076	-3.58887
Rln3	-0.22756	4.141756	-2.3404	0.035268	0.205425	-3.92135
Gm13274	-0.2276	4.295219	-2.59044	0.021923	0.163948	-3.48737
Ccdc63	-0.22761	4.09176	-2.34515	0.034954	0.204726	-3.91326
Gm15423	-0.22774	3.945947	-3.34582	0.005046	0.080883	-2.11564
Ephx2	-0.22782	10.65171	-2.16985	0.048477	0.239731	-4.20739
Cpvl	-0.22788	3.526766	-3.89009	0.001753	0.049964	-1.11348
Dupd1	-0.22799	3.6946	-2.21771	0.044363	0.229137	-4.12806
Ovol2	-0.22805	3.955634	-2.42582	0.030012	0.192176	-3.77484
Map3k11	-0.22814	6.153185	-2.24682	0.042024	0.223838	-4.07944
Wdr86	-0.22827	4.133586	-2.72336	0.016972	0.144917	-3.25113
Tacr1	-0.22856	3.987691	-2.24517	0.042153	0.22425	-4.0822
Slc7a10	-0.2292	4.088687	-2.17442	0.048069	0.238735	-4.19984
Mex3a	-0.22947	4.115248	-3.03629	0.009238	0.108326	-2.68449
Xylb	-0.22951	3.752353	-2.62631	0.020464	0.158828	-3.42395

A930031H:	-0.2297	3.611062	-3.72054	0.002432	0.057534	-1.42473
Smpd3	-0.22997	4.192958	-2.74999	0.01612	0.141046	-3.20343
BC068281	-0.23007	4.475462	-2.33829	0.035408	0.205665	-3.92495
Mir877	-0.23007	4.001502	-2.5672	0.022922	0.167501	-3.52832
D5Erttd579c	-0.23008	7.818068	-2.54777	0.023791	0.170986	-3.56247
Dnd1	-0.23011	4.058285	-2.68829	0.018161	0.149792	-3.31377
F11	-0.23041	3.816598	-2.16819	0.048625	0.239939	-4.21012
Akr1d1	-0.23042	3.380478	-2.82084	0.014052	0.13227	-3.07597
Akt1s1	-0.23054	5.591112	-2.30512	0.037684	0.212002	-3.98126
Arrdc5	-0.23058	3.560815	-2.69968	0.017766	0.147997	-3.29345
Cryaa	-0.23071	4.01534	-2.31366	0.037086	0.21051	-3.9668
Fam174a	-0.23083	6.203271	-3.01115	0.009703	0.110901	-2.73043
Syn1	-0.23087	4.052207	-2.1733	0.048168	0.238967	-4.20169
Gm9736	-0.23098	7.454007	-2.18954	0.046742	0.235607	-4.17484
Gm6211	-0.231	3.749407	-2.91004	0.011815	0.120438	-2.91453
Ranbp3l	-0.23116	3.598122	-3.64822	0.002799	0.061834	-1.55787
Gm4792	-0.23132	3.57599	-3.29175	0.005608	0.08512	-2.21531
Gm7337	-0.23139	4.46552	-2.75437	0.015984	0.140608	-3.19558
Rasgef1a	-0.23145	3.948076	-2.2163	0.04448	0.229506	-4.13041
Gm13056	-0.23147	4.018785	-2.35698	0.034184	0.202542	-3.89307
Sag	-0.23158	3.739273	-2.27497	0.039873	0.217902	-4.03217
Gpr61	-0.23169	3.832969	-3.46673	0.003985	0.072001	-1.89258
Tbx4	-0.23172	3.896105	-2.62791	0.020401	0.158686	-3.42111
Gm26911	-0.23183	3.977837	-2.64638	0.019688	0.155717	-3.38835
Mpzl1	-0.23183	5.889455	-3.03739	0.009218	0.108303	-2.68247
Mbl1	-0.23234	3.615356	-2.32744	0.036138	0.207561	-3.94341
Frmd4b	-0.2324	6.476735	-2.34397	0.035032	0.204924	-3.91527
Dok7	-0.23242	6.326664	-2.28999	0.038768	0.214695	-4.00684
Gm38424	-0.23255	3.862405	-2.74468	0.016286	0.141919	-3.21295
Txndc17	-0.23264	8.837457	-2.53653	0.024308	0.17274	-3.5822
Tigar	-0.23277	7.197415	-2.24375	0.042265	0.224621	-4.08459
2610035F2	-0.23288	3.824805	-3.17658	0.007024	0.094671	-2.42729
Trpm6	-0.23298	3.56092	-2.36494	0.033674	0.201461	-3.87946
Olf523	-0.23315	4.047648	-2.24971	0.041798	0.22298	-4.0746
Xrn1	-0.23324	6.659746	-2.36839	0.033456	0.200818	-3.87357
Gm26708	-0.23337	3.626885	-2.25745	0.041199	0.221401	-4.06161
2210039BC	-0.23347	3.678592	-3.37819	0.004737	0.07842	-2.05594
Pom121l2	-0.23349	4.007278	-2.8439	0.013437	0.12907	-3.03432
Tsr3	-0.23359	4.961819	-2.85798	0.013074	0.126961	-3.00887
Mir1964	-0.23382	4.776808	-2.40143	0.031431	0.196141	-3.81687
Trmt1	-0.23391	5.411363	-2.33363	0.03572	0.206463	-3.93288
Ern2	-0.23424	3.771064	-2.32556	0.036266	0.207973	-3.94659
Arl6ip5	-0.23443	9.18259	-2.46348	0.027941	0.18497	-3.70964
Gnb1l	-0.23445	4.057905	-2.78851	0.014961	0.136388	-3.13422
Zkscan8	-0.23457	5.453515	-2.32325	0.036424	0.208496	-3.95053
Hdac2	-0.23462	7.140015	-2.37057	0.033319	0.200415	-3.86983
Gm6987	-0.23466	3.532574	-2.97529	0.010405	0.114104	-2.79583
Olf433	-0.23487	3.595779	-3.36063	0.004902	0.079707	-2.08833

4930465M:	-0.23508	3.556125	-2.43435	0.029531	0.190502	-3.76011
Gm5475	-0.23511	3.539344	-2.78492	0.015065	0.137039	-3.14068
Fam131c	-0.23513	4.027291	-3.60767	0.003028	0.06362	-1.6326
Ccnj	-0.23515	4.87266	-2.25254	0.041578	0.222269	-4.06985
Sgcz	-0.23522	3.703598	-3.13708	0.007588	0.09806	-2.49983
Capns2	-0.23531	3.71511	-2.70857	0.017464	0.147117	-3.27757
Luc7l3	-0.23543	8.082482	-2.31255	0.037163	0.21051	-3.96867
Cyp2d26	-0.23552	3.534259	-2.21265	0.044782	0.229968	-4.13648
Vps18	-0.23554	4.705958	-2.71669	0.017192	0.145849	-3.26305
Igkv1-99	-0.23561	4.13415	-2.59131	0.021887	0.163799	-3.48584
Ankrd53	-0.23561	3.814813	-2.67294	0.018706	0.152222	-3.34112
Muc20	-0.23571	3.780012	-2.40963	0.030947	0.194856	-3.80276
Klhl29	-0.23578	4.117788	-2.58488	0.022158	0.164828	-3.49718
Sry	-0.23581	3.754571	-2.73645	0.016548	0.142986	-3.2277
Gm11732	-0.23582	4.018892	-2.70653	0.017533	0.147342	-3.28122
Elfn2	-0.23587	4.424869	-2.80536	0.01448	0.13377	-3.10388
Tmod2	-0.23596	4.399599	-2.36098	0.033927	0.202007	-3.88625
Wnt10a	-0.23622	4.218643	-2.84069	0.013521	0.129716	-3.04014
Sgcb	-0.2364	9.523404	-2.32126	0.03656	0.208793	-3.95389
Mir455	-0.23643	3.849152	-2.34176	0.035178	0.205186	-3.91903
Sbf1	-0.2365	6.546787	-2.58338	0.022222	0.165153	-3.49982
Sfpq	-0.2365	7.300042	-2.73484	0.016599	0.14331	-3.23059
Ctrl	-0.23665	3.884688	-2.53525	0.024367	0.17274	-3.58444
Ggnbp2os	-0.2367	4.477354	-2.62077	0.020682	0.159767	-3.43375
Ubqln3	-0.23686	3.803772	-2.80729	0.014426	0.13377	-3.1004
Capn15	-0.23714	4.341882	-2.26949	0.040283	0.219147	-4.04138
Glul	-0.23737	10.94251	-2.24396	0.042249	0.224616	-4.08424
Abhd13	-0.23737	5.494758	-2.52348	0.024922	0.174974	-3.60505
Grm7	-0.23788	3.435257	-3.66622	0.002703	0.061038	-1.52472
Gab1	-0.238	8.649228	-2.48663	0.026737	0.180842	-3.66939
Arih2	-0.23824	8.561869	-2.33455	0.035658	0.206402	-3.93131
S100pbp	-0.23825	6.428399	-3.5234	0.003568	0.068153	-1.78802
Olfr1494	-0.23838	3.423778	-2.78349	0.015107	0.137268	-3.14325
Erich5	-0.23844	4.261312	-2.2628	0.04079	0.220393	-4.05263
Figla	-0.23849	3.554662	-3.73901	0.002347	0.05703	-1.39075
Ston2	-0.23858	5.1089	-2.69752	0.01784	0.148329	-3.2973
Tbx22	-0.2386	3.494876	-2.8139	0.014242	0.133007	-3.08849
Olfr239	-0.23863	3.769928	-2.56314	0.023101	0.168419	-3.53548
AU015228	-0.23868	3.590864	-3.18858	0.006861	0.093312	-2.40523
Mir3067	-0.23876	3.84278	-2.89518	0.012162	0.121746	-2.94149
Trem14	-0.23906	3.99717	-2.3972	0.031684	0.196427	-3.82416
Olfr681	-0.23923	3.441337	-2.53667	0.024301	0.17274	-3.58195
Tshr	-0.23929	3.58991	-2.83003	0.013803	0.131294	-3.05939
Gm11681	-0.23952	3.944694	-2.33085	0.035907	0.206968	-3.93761
Gm10653	-0.23984	3.617059	-2.28254	0.039313	0.216368	-4.01942
Nrip3	-0.24002	3.513045	-2.76111	0.015777	0.139574	-3.18347
Cdh2	-0.24022	11.06609	-3.80836	0.002052	0.053574	-1.26333
Morn3	-0.24029	3.967746	-2.52228	0.024979	0.174974	-3.60716

Csf3	-0.24036	4.062276	-2.39058	0.032083	0.197227	-3.83552
Lypd3	-0.24044	4.290911	-2.81254	0.01428	0.133224	-3.09094
5830432E0	-0.24049	4.442095	-2.90033	0.012041	0.121279	-2.93214
C330013E1	-0.2409	4.52213	-2.39354	0.031904	0.197038	-3.83045
Tpgs1	-0.24099	7.271759	-2.78025	0.015202	0.137531	-3.14909
Fancf	-0.24107	3.857981	-2.78132	0.015171	0.137442	-3.14716
Cpne6	-0.24114	4.759474	-3.1006	0.008148	0.102306	-2.56675
Dclk3	-0.24118	3.899999	-2.19421	0.04634	0.234481	-4.1671
Gm11608	-0.24126	3.507384	-2.81645	0.014172	0.1329	-3.08389
Gm11938	-0.24129	4.077599	-2.19035	0.046673	0.235447	-4.17351
4921525O	-0.24153	3.64071	-2.95119	0.010906	0.116412	-2.83972
Fxyd7	-0.24206	4.418198	-2.7704	0.015495	0.138565	-3.16678
Tjp3	-0.24215	4.191098	-2.796	0.014745	0.135117	-3.12074
Ahsa2	-0.24232	6.370538	-2.18905	0.046785	0.23567	-4.17565
Spop	-0.24236	9.288649	-4.03836	0.001318	0.043116	-0.84274
Slc16a1	-0.24245	9.955275	-2.72658	0.016866	0.144484	-3.24536
Dbx1	-0.24265	3.716812	-3.19553	0.006769	0.09302	-2.39245
Dock10	-0.24268	5.090902	-2.59155	0.021876	0.163799	-3.48541
Gm8094	-0.24362	3.495949	-2.25466	0.041414	0.221728	-4.0663
Crym	-0.24365	4.293054	-2.34703	0.03483	0.204363	-3.91005
Tmem119	-0.24373	3.865684	-3.03256	0.009306	0.108712	-2.6913
Traf3ip3	-0.24385	3.822169	-2.80611	0.014459	0.13377	-3.10254
Gdf9	-0.24385	3.698795	-2.29685	0.038273	0.212999	-3.99525
Grik4	-0.24406	3.872109	-3.16053	0.007248	0.095893	-2.45677
Slc1a4	-0.24433	3.978745	-2.88323	0.012448	0.123436	-2.96315
Mbl2	-0.24451	3.593238	-2.7979	0.014691	0.134815	-3.11732
Gjb2	-0.24462	3.56527	-3.08803	0.008351	0.103469	-2.58979
Magee1	-0.24491	4.044861	-3.10293	0.008111	0.102043	-2.56248
Klk10	-0.24493	4.189711	-2.17565	0.04796	0.238399	-4.19782
6330403AC	-0.24496	4.077062	-2.25964	0.041031	0.221123	-4.05795
Crygs	-0.24503	3.519899	-3.34538	0.005051	0.0809	-2.11646
Mir760	-0.24539	3.996446	-2.35	0.034636	0.203657	-3.90499
9130019O	-0.24542	3.567395	-2.71847	0.017133	0.145565	-3.25988
4930509E1	-0.24555	4.506946	-2.19095	0.046621	0.235233	-4.17251
LOC10263	-0.24588	3.930364	-2.24097	0.042485	0.22534	-4.08924
Odf3	-0.246	3.656052	-2.19564	0.046217	0.234242	-4.16474
Frmpd1	-0.24633	3.760378	-2.96485	0.010619	0.11483	-2.81485
Slc25a47	-0.24649	4.812953	-2.41241	0.030785	0.194616	-3.79798
Cyp2b10	-0.24652	3.585724	-2.39024	0.032104	0.197255	-3.8361
Gm26847	-0.24667	4.452025	-3.28481	0.005685	0.085618	-2.22811
Dmrtc1a	-0.2467	4.031108	-3.72704	0.002402	0.057456	-1.41277
Twist1	-0.24677	4.148265	-2.20671	0.045279	0.231348	-4.14636
Vax2	-0.24691	4.054606	-2.97451	0.010421	0.114162	-2.79726
AI314278	-0.24701	4.468131	-2.35937	0.03403	0.202243	-3.88898
Syt16	-0.24701	3.80138	-2.37204	0.033227	0.200295	-3.86732
2410131K1	-0.24738	6.201345	-2.54287	0.024015	0.171851	-3.57107
Mlc1	-0.24738	3.772388	-2.66645	0.018942	0.153337	-3.35268
Zbtb33	-0.24766	5.036814	-2.82857	0.013842	0.131445	-3.06201

Tmem14a	-0.24771	3.863286	-2.62023	0.020704	0.159795	-3.43471
1700016K1	-0.24773	3.974932	-2.22879	0.043458	0.227717	-4.10958
Slc25a53	-0.24774	3.790844	-3.13826	0.00757	0.098031	-2.49768
Glyctk	-0.24778	4.101371	-2.31072	0.037291	0.210788	-3.97178
Kcnq5	-0.2479	4.014557	-2.90259	0.011988	0.121077	-2.92805
Pcdhb13	-0.24792	3.662418	-2.49495	0.026316	0.179203	-3.6549
Rpn2	-0.24804	7.505374	-2.83492	0.013673	0.130529	-3.05055
Ranbp1	-0.24835	4.391127	-3.14364	0.007491	0.097601	-2.48779
Vstm2l	-0.24846	4.684199	-2.84043	0.013528	0.129716	-3.04061
Poll	-0.24859	4.551324	-2.46758	0.027724	0.184187	-3.70253
Amh	-0.24871	3.998611	-2.72141	0.017036	0.145017	-3.25461
Polr2m	-0.24871	9.856764	-3.54232	0.003439	0.067271	-1.75313
Cdh1	-0.24877	4.028612	-3.62719	0.002916	0.062595	-1.59664
Astn2	-0.24881	4.549588	-2.18819	0.046859	0.23567	-4.17707
Olfr1459	-0.24885	3.517012	-2.83692	0.01362	0.130128	-3.04694
Grb7	-0.24895	3.994013	-2.58438	0.02218	0.164927	-3.49806
Cldn22	-0.24897	3.743193	-2.97691	0.010372	0.113896	-2.79288
Gm7244	-0.24925	3.424202	-3.58412	0.00317	0.065355	-1.67603
Cxcl17	-0.24929	4.050483	-3.04808	0.009028	0.107057	-2.66292
Tial1	-0.2495	6.925541	-2.85084	0.013257	0.128135	-3.02179
Elovl2	-0.24969	3.859853	-3.16276	0.007216	0.09563	-2.45268
Gnl3l	-0.24974	6.179331	-2.52403	0.024896	0.174931	-3.60409
Kcnmb4	-0.24976	3.856238	-2.84187	0.01349	0.129532	-3.03801
Lhx4	-0.24998	3.879159	-2.89953	0.01206	0.121279	-2.93361
Pou6f1	-0.2501	4.813102	-2.46535	0.027842	0.184673	-3.7064
Grem2	-0.2503	3.793389	-2.98787	0.010153	0.112746	-2.7729
A630089Nf	-0.25031	3.514333	-2.65769	0.019264	0.154199	-3.36826
Gm26519	-0.25034	4.434077	-2.51704	0.02523	0.175619	-3.61632
A230072E1	-0.25063	3.754729	-3.10569	0.008068	0.101807	-2.55742
Sox21	-0.2507	3.991513	-2.5462	0.023863	0.171255	-3.56524
4930545L2	-0.25079	3.590912	-2.43272	0.029623	0.190881	-3.76293
Exoc3l2	-0.25082	4.523351	-3.54649	0.003411	0.067035	-1.74543
Ii12b	-0.25082	3.711583	-4.09461	0.001184	0.041181	-0.74044
Gm15421	-0.25083	3.997304	-2.35967	0.034011	0.202179	-3.88848
Chrn4	-0.25089	3.761193	-3.15778	0.007287	0.096206	-2.46183
Emilin3	-0.25107	3.739292	-2.76567	0.015638	0.138835	-3.17529
Gm684	-0.2511	4.428162	-2.80162	0.014586	0.134395	-3.11062
Slc35g3	-0.25126	3.742045	-2.60747	0.021218	0.161804	-3.4573
Tekt5	-0.25127	3.717546	-2.77256	0.015431	0.138285	-3.1629
Smkr-ps	-0.25131	3.778804	-3.66256	0.002722	0.061295	-1.53146
Olfr1039	-0.25132	3.377353	-2.82863	0.013841	0.131445	-3.06191
Folr1	-0.25141	3.909941	-3.64173	0.002834	0.062248	-1.56984
Msx3	-0.25156	3.786409	-3.83765	0.001939	0.051921	-1.20958
Npffr2	-0.25173	3.452342	-2.77192	0.01545	0.138356	-3.16406
G6bos	-0.25188	3.857132	-2.66967	0.018825	0.152672	-3.34694
Olfr1348	-0.25197	3.805656	-2.5568	0.023383	0.169774	-3.54662
Lcn10	-0.25201	3.786024	-2.31456	0.037023	0.210327	-3.96527
Cxcr1	-0.25201	3.947238	-2.65051	0.019533	0.155006	-3.38102

Lhb	-0.25207	4.171653	-3.10821	0.008028	0.10145	-2.5528
A930001C	-0.2522	4.01599	-2.29879	0.038134	0.212799	-3.99198
Agrp	-0.25223	3.616072	-2.78854	0.01496	0.136388	-3.13417
Mir7b	-0.2523	4.066723	-3.5099	0.003664	0.069154	-1.81292
Tagln3	-0.25242	4.016691	-2.28851	0.038875	0.214843	-4.00933
Fosb	-0.25279	3.975655	-3.43183	0.004266	0.07495	-1.95698
Kcnk6	-0.25292	5.43376	-2.39317	0.031927	0.197039	-3.83109
Slc10a4	-0.25292	4.122155	-2.22877	0.04346	0.227717	-4.10962
Gm30502	-0.2531	3.924801	-2.21987	0.044186	0.229025	-4.12447
Wars2	-0.25311	4.881259	-3.66342	0.002718	0.061249	-1.52988
Hoxd10	-0.25335	3.926873	-3.10003	0.008157	0.102306	-2.5678
Gm11211	-0.25338	3.865497	-2.97912	0.010328	0.113608	-2.78886
Ccdc136	-0.25367	4.143185	-3.09066	0.008308	0.103197	-2.58497
Tunar	-0.25401	3.975779	-2.73804	0.016497	0.142794	-3.22484
Ybx3	-0.25407	10.80558	-2.72948	0.016772	0.144108	-3.24018
Abo	-0.25441	3.801666	-3.19837	0.006731	0.092813	-2.38723
Stkld1	-0.25564	3.496041	-3.87109	0.001818	0.050594	-1.14828
Dhx29	-0.25576	6.412971	-2.59468	0.021746	0.163395	-3.47989
Gm17764	-0.256	3.891776	-3.40333	0.00451	0.07686	-2.00957
Olf203	-0.25601	3.33277	-3.1324	0.007658	0.09838	-2.50843
F12	-0.25604	3.847161	-2.18869	0.046816	0.23567	-4.17625
1700001G1	-0.25605	4.296617	-2.55321	0.023544	0.170415	-3.55292
Catsper4	-0.25612	3.737339	-3.62039	0.002954	0.062839	-1.60916
Palm3	-0.25614	4.231305	-3.0244	0.009455	0.109319	-2.70621
Gm266	-0.25636	3.918449	-2.37142	0.033266	0.200371	-3.86839
Olf1153	-0.25652	3.189451	-3.83937	0.001933	0.051921	-1.20643
Mdp1	-0.25667	6.921143	-2.46887	0.027656	0.183997	-3.70028
Defb7	-0.25693	3.142042	-3.67113	0.002677	0.06089	-1.51567
A230050P2	-0.25707	4.556522	-2.43361	0.029572	0.190704	-3.76138
Mir143hg	-0.25709	7.010125	-3.17885	0.006993	0.09438	-2.42311
Tnfaip8l3	-0.25723	3.750375	-3.33387	0.005165	0.081791	-2.13768
Gm11548	-0.25751	3.298245	-3.38987	0.00463	0.077689	-2.03439
Hnrnp1	-0.25757	5.066528	-2.66442	0.019016	0.153536	-3.35628
D030025P2	-0.25761	3.531597	-3.24651	0.006127	0.088386	-2.29865
Acmsd	-0.25776	3.505724	-3.72474	0.002413	0.057456	-1.417
Ly6k	-0.2579	4.300573	-2.36018	0.033978	0.202082	-3.88761
Rhd	-0.25829	4.628506	-2.6853	0.018266	0.150181	-3.31911
A330069E1	-0.25833	3.837957	-3.16831	0.007139	0.09532	-2.44248
Ifng	-0.25852	3.768772	-2.92692	0.011433	0.119327	-2.88386
Gip	-0.25857	4.660592	-2.5383	0.024226	0.17274	-3.57909
Tbl2	-0.25863	5.962484	-2.77729	0.01529	0.137678	-3.15441
Slc17a8	-0.25881	3.877513	-2.15495	0.049828	0.243034	-4.23192
2310039HC	-0.25885	6.007945	-2.2151	0.044578	0.229533	-4.1324
AB124611	-0.25897	4.309153	-2.23578	0.042897	0.226685	-4.09791
Gng8	-0.25902	3.579636	-3.22192	0.006429	0.090568	-2.3439
Pafah1b1	-0.25909	9.157562	-3.10269	0.008115	0.102043	-2.56292
Gm13003	-0.25926	3.893073	-4.66654	0.000404	0.027213	0.281679
Nfe2l3	-0.25954	4.264923	-2.76923	0.01553	0.13868	-3.16889



Olf131	-0.2596	3.401938	-2.85802	0.013073	0.126961	-3.0088
Tsk1	-0.25961	3.985916	-3.12558	0.00776	0.098983	-2.52094
Phlda3	-0.25968	5.649129	-2.19172	0.046555	0.23509	-4.17124
Gm12236	-0.25969	4.496292	-2.37892	0.032798	0.198877	-3.85553
Dnph1	-0.26004	4.240258	-2.25998	0.041005	0.221075	-4.05737
Olf441	-0.26006	3.256931	-2.38657	0.032328	0.197792	-3.84242
Sfrp2	-0.26028	4.449614	-2.16157	0.049223	0.241323	-4.22102
Olf412	-0.26042	3.259274	-3.94898	0.001565	0.046979	-1.00575
Fbx14	-0.26053	5.341088	-2.79838	0.014677	0.134791	-3.11645
Zfp777	-0.26072	4.819999	-2.16823	0.048621	0.239939	-4.21005
Rem2	-0.26087	3.691099	-2.98379	0.010234	0.113027	-2.78033
Tmem145	-0.261	4.033886	-3.05772	0.00886	0.106411	-2.64529
Prokr1	-0.26101	4.033557	-2.36706	0.03354	0.201111	-3.87584
493059210G	-0.26103	3.556983	-2.97552	0.010401	0.114104	-2.79541
2300002M	-0.26109	3.901437	-2.33048	0.035932	0.206968	-3.93824
Zfp281	-0.26115	5.370076	-2.60116	0.021477	0.1626	-3.46844
Slc39a13	-0.26116	7.488234	-2.66091	0.019145	0.153812	-3.36253
Gm7325	-0.26126	3.8653	-4.75007	0.000346	0.025759	0.427744
Gm21559	-0.26127	3.494119	-2.98872	0.010136	0.112746	-2.77134
Mir16-1	-0.26128	4.49094	-3.17024	0.007112	0.09532	-2.43893
Ltb4r1	-0.26136	3.900569	-3.70289	0.002517	0.058591	-1.45721
A930038B1	-0.26143	3.764142	-4.6145	0.000445	0.027766	0.190206
Sox10	-0.26182	3.969187	-3.44453	0.004162	0.073899	-1.93354
Myh14	-0.26187	6.886481	-2.986	0.01019	0.112865	-2.77631
Dtx4	-0.26193	5.215227	-2.52707	0.024751	0.174312	-3.59877
D1Ert622c	-0.26193	4.336809	-2.45945	0.028156	0.185962	-3.71664
Cass4	-0.26197	3.736282	-2.22805	0.043518	0.227761	-4.11082
Cfap46	-0.26199	3.821803	-3.17556	0.007038	0.094671	-2.42916
Esr2	-0.26202	4.181654	-2.6152	0.020905	0.160601	-3.44362
Ttbk1	-0.26209	4.289692	-2.50958	0.025592	0.176732	-3.62935
Eif3e	-0.26219	6.282477	-2.15438	0.049881	0.243108	-4.23286
Fam117b	-0.2624	7.933902	-2.47147	0.02752	0.18346	-3.69577
H2-T3	-0.26257	3.616843	-3.25157	0.006067	0.088146	-2.28933
Igfbp1	-0.26283	3.641451	-3.39731	0.004563	0.077338	-2.02067
Esx1	-0.26314	3.795514	-3.06024	0.008816	0.106281	-2.64068
Zrsr2	-0.26329	5.255887	-2.42561	0.030025	0.192177	-3.77522
Celf5	-0.26345	4.297635	-2.7547	0.015973	0.140608	-3.19498
Pax3	-0.2635	3.961514	-2.36746	0.033515	0.201009	-3.87516
Ptpn1	-0.26355	5.058818	-3.02088	0.00952	0.109775	-2.71266
Olf645	-0.26365	3.321136	-3.64192	0.002833	0.062248	-1.56948
Cebpe	-0.26366	3.965337	-2.48542	0.026798	0.181067	-3.67149
Olf1336	-0.26375	3.660689	-3.32729	0.005232	0.082544	-2.14981
Mir1932	-0.26389	4.58225	-2.34283	0.035107	0.205016	-3.9172
Slc14a1	-0.26405	4.136692	-2.86904	0.012796	0.125438	-2.98885
Wdr54	-0.26423	4.249232	-2.87631	0.012616	0.124572	-2.97569
Gm6899	-0.26425	4.644079	-3.20546	0.006639	0.09215	-2.37419
Gm6408	-0.26501	3.78123	-2.57839	0.022436	0.165799	-3.50861
Dynl12	-0.26525	5.560571	-2.32021	0.036632	0.209012	-3.95567

Dmrtb1	-0.2655	3.904767	-2.17303	0.048192	0.238969	-4.20214
Rbck1	-0.26558	6.042341	-2.16707	0.048726	0.240009	-4.21197
Krtap19-4	-0.26562	6.045739	-2.29625	0.038316	0.213095	-3.99627
Snhg10	-0.26586	4.13107	-3.12658	0.007745	0.098891	-2.5191
Ltb4r2	-0.2664	3.992778	-2.63137	0.020266	0.158157	-3.41499
Ahcyl2	-0.26654	5.038279	-2.41056	0.030893	0.194818	-3.80116
Klrg2	-0.26669	4.440872	-3.2757	0.005787	0.086409	-2.2449
Tmem221	-0.26699	4.045541	-2.42375	0.03013	0.19235	-3.77841
Gm17518	-0.26726	3.887448	-2.77725	0.015291	0.137678	-3.15448
Taf11	-0.26742	5.928301	-3.27033	0.005848	0.08676	-2.25478
1700039E1	-0.26753	3.710961	-2.61625	0.020863	0.160601	-3.44177
Tulp3	-0.26755	5.476739	-2.68857	0.018151	0.149762	-3.31328
Etohi1	-0.26761	5.946113	-2.65209	0.019473	0.154963	-3.37821
Nol12	-0.26788	4.842134	-3.01918	0.009552	0.110037	-2.71575
Rab40b	-0.26793	4.399239	-2.50284	0.025923	0.178004	-3.64114
Plag1	-0.26813	4.863658	-2.55069	0.023658	0.170625	-3.55735
Apoc4	-0.26822	3.763923	-3.30655	0.005449	0.083865	-2.18804
Kcna6	-0.26865	3.89367	-3.81846	0.002012	0.052939	-1.24478
Mipepos	-0.26873	3.321526	-3.41493	0.004409	0.076226	-1.98817
Foxa3	-0.26878	4.217334	-3.99937	0.00142	0.044615	-0.91378
Syt4	-0.2691	3.47702	-3.70604	0.002502	0.058288	-1.45141
Gcnt1	-0.26932	3.882592	-2.35162	0.034531	0.203418	-3.90223
Ube2j2	-0.26933	6.710548	-2.31228	0.037181	0.21051	-3.96913
4930558J1	-0.26942	3.626846	-3.63836	0.002853	0.062326	-1.57604
Lrrtm1	-0.26957	3.66746	-4.04531	0.001301	0.042778	-0.83008
Fam179a	-0.27057	4.578908	-2.42711	0.029939	0.191974	-3.77261
Arc	-0.27058	4.972944	-2.47202	0.027491	0.183372	-3.69481
Olf70	-0.27064	3.905207	-2.19867	0.045959	0.23338	-4.15971
Zfx	-0.27076	5.301307	-2.19519	0.046256	0.234242	-4.16548
Magea8	-0.27108	3.339478	-4.09235	0.001189	0.041181	-0.74455
Nkx2-2os	-0.27122	3.688365	-4.3946	0.00067	0.033	-0.19988
Sall2	-0.27124	4.208291	-2.69223	0.018023	0.149042	-3.30675
Cybrd1	-0.27132	3.894858	-2.46882	0.027659	0.183997	-3.70037
Tmem170k	-0.2714	6.196984	-2.42364	0.030137	0.19235	-3.77861
Vmn1r119	-0.27153	4.209937	-2.47621	0.027272	0.182517	-3.68752
Habp2	-0.27167	4.073474	-2.70575	0.017559	0.147342	-3.28261
Csmd1	-0.27197	3.746667	-3.11213	0.007967	0.100893	-2.54561
5730460CC	-0.27197	3.850018	-3.75097	0.002293	0.05644	-1.36877
Abcb4	-0.27204	6.707079	-2.7235	0.016967	0.144917	-3.25088
Cd209d	-0.27221	3.374151	-3.37291	0.004786	0.078798	-2.06569
1700128AC	-0.27228	4.13404	-2.6484	0.019612	0.155392	-3.38477
Coa7	-0.27246	4.756183	-2.31351	0.037096	0.21051	-3.96705
Rnaseh2b	-0.27272	5.307326	-2.99727	0.009969	0.112245	-2.75575
Zfp36l1	-0.27275	9.384786	-2.84651	0.013369	0.128731	-3.02962
Slamf7	-0.27288	3.745722	-3.88893	0.001756	0.050018	-1.1156
Rab34	-0.27298	4.319726	-2.35913	0.034046	0.202259	-3.88941
Mcoln3	-0.27331	3.889467	-2.43444	0.029526	0.190502	-3.75995
Neurog1	-0.27343	3.793133	-3.4271	0.004306	0.075273	-1.96571

Raph1	-0.27352	9.530884	-3.16476	0.007188	0.095461	-2.44902
Cdc20	-0.27356	4.405702	-3.49873	0.003744	0.069861	-1.83353
Gm14010	-0.27357	4.71543	-2.74461	0.016288	0.141919	-3.21307
Dusp2	-0.27391	4.307543	-2.37501	0.033041	0.199443	-3.86223
Rundc3b	-0.27409	3.661053	-2.68313	0.018343	0.150444	-3.32298
Reps2	-0.27416	4.147425	-3.23207	0.006302	0.089626	-2.32523
Fam196a	-0.27417	3.952026	-2.51524	0.025317	0.17589	-3.61947
Sltm	-0.27464	7.204149	-2.57548	0.022561	0.166143	-3.51374
Racgap1	-0.27469	3.74734	-3.13895	0.00756	0.09799	-2.4964
Dhcr24	-0.27483	4.237745	-4.18801	0.000991	0.038783	-0.57122
Skint7	-0.27504	3.913506	-2.65068	0.019526	0.155006	-3.38072
Tectb	-0.27525	3.815579	-4.46757	0.000585	0.031294	-0.06981
Stx4a	-0.27551	6.856059	-2.33761	0.035453	0.205831	-3.9261
6030452D1	-0.27567	3.672796	-3.37809	0.004738	0.07842	-2.05613
Commd10	-0.2757	5.597666	-3.88775	0.00176	0.050025	-1.11776
Madcam1	-0.27588	4.066652	-2.78984	0.014922	0.136342	-3.13182
Ephb1	-0.27605	4.213213	-2.25769	0.04118	0.221398	-4.06121
Gm14015	-0.27616	3.574809	-3.11086	0.007987	0.101042	-2.54795
Zfp367	-0.27628	6.328657	-2.91193	0.011772	0.120438	-2.9111
Arhgap33c	-0.2763	4.290563	-2.62878	0.020367	0.15847	-3.41957
Elavl2	-0.27635	3.722582	-3.28933	0.005635	0.085317	-2.21979
Ccnf	-0.27644	3.896776	-2.93609	0.011231	0.118259	-2.8672
Unk	-0.27659	5.028208	-2.94152	0.011113	0.11753	-2.85732
2010010AC	-0.27664	3.719674	-2.44649	0.028858	0.188298	-3.73911
Frs3	-0.27665	4.636578	-3.24512	0.006144	0.088386	-2.30121
Spp1	-0.27668	3.909921	-2.547	0.023826	0.171188	-3.56383
1700048O2	-0.2768	3.827503	-2.95974	0.010725	0.115604	-2.82415
2610027KC	-0.27702	4.252602	-3.3837	0.004686	0.077965	-2.04578
Kif7	-0.27707	4.481259	-2.79023	0.014911	0.136337	-3.13112
Dcst2	-0.27707	4.015272	-2.27728	0.039701	0.21727	-4.02828
Dmrtd2	-0.27714	4.160094	-2.40317	0.031329	0.195921	-3.81389
Sepw1	-0.27722	8.92747	-3.00644	0.009792	0.11129	-2.73902
Ngfrap1	-0.27728	5.123406	-3.14423	0.007483	0.097601	-2.48671
Gas6	-0.2774	8.933567	-2.21539	0.044555	0.229533	-4.13193
Gm7241	-0.27744	6.264601	-2.32164	0.036534	0.20874	-3.95325
Zfp580	-0.27747	5.106059	-2.49603	0.026262	0.179203	-3.65302
Krr1	-0.27747	6.925229	-2.24646	0.042052	0.223902	-4.08004
Olfr1344	-0.27775	3.61259	-2.65516	0.019358	0.154545	-3.37276
Hamp2	-0.27791	3.591353	-3.20139	0.006692	0.092575	-2.38167
Rit1	-0.2781	8.01948	-3.38162	0.004705	0.078141	-2.04962
Rrm1	-0.2789	5.11299	-2.23825	0.0427	0.22605	-4.09379
A830009LC	-0.27893	3.535421	-4.31757	0.000775	0.034403	-0.33782
Mgme1	-0.27896	4.624354	-2.76637	0.015617	0.138772	-3.17403
C230012O1	-0.27933	4.320786	-3.54245	0.003438	0.067271	-1.75289
E530001F2	-0.27939	3.852902	-2.7291	0.016784	0.144131	-3.24086
Dnajc6	-0.27954	3.72001	-3.75725	0.002265	0.056149	-1.35722
Rfc1	-0.27956	6.3166	-2.46773	0.027716	0.184184	-3.70227
Klc3	-0.27959	4.072935	-3.59786	0.003087	0.06427	-1.65069

Med30	-0.27966	4.705873	-3.18973	0.006846	0.093296	-2.40311
Mip	-0.27967	3.726212	-2.25659	0.041265	0.221534	-4.06307
Car5a	-0.27999	3.808083	-3.63645	0.002864	0.062351	-1.57956
Tubb1	-0.28046	3.663154	-3.13486	0.007621	0.09819	-2.50392
Neurl1a	-0.28072	4.066344	-2.66553	0.018975	0.153364	-3.35431
Exosc6	-0.28088	5.260278	-3.06629	0.008713	0.105659	-2.62961
Otud6a	-0.28101	3.929647	-3.44953	0.004121	0.073444	-1.92431
Gpr31b	-0.28115	4.546436	-2.75227	0.016049	0.140682	-3.19934
Ccl20	-0.28125	4.066406	-2.62379	0.020563	0.159184	-3.42841
Nhsl1	-0.28148	5.675991	-2.65051	0.019533	0.155006	-3.38102
Ugt1a9	-0.28154	3.36989	-2.59569	0.021703	0.1633	-3.4781
Raly1	-0.28155	3.656425	-3.61277	0.002999	0.063192	-1.62321
Olf1402	-0.28171	3.833996	-2.48042	0.027055	0.182026	-3.68021
Gm7964	-0.28187	7.007175	-4.03078	0.001337	0.043517	-0.85653
Zbtb43	-0.28198	5.208944	-4.09295	0.001187	0.041181	-0.74347
Slc5a4a	-0.28225	3.684721	-3.6034	0.003054	0.063948	-1.64047
Tmem164	-0.28261	4.884901	-2.6036	0.021376	0.162123	-3.46413
Gm1995	-0.28263	3.917199	-2.64264	0.019831	0.156366	-3.39499
Lrrc2	-0.28284	10.98781	-4.6839	0.000391	0.027042	0.312104
Hnrnpc	-0.28303	8.035078	-3.04462	0.009089	0.107599	-2.66925
Cryz11	-0.28318	5.089532	-2.57902	0.022408	0.165796	-3.5075
Gm10318	-0.28343	3.338019	-4.45562	0.000598	0.031551	-0.09107
Myd8f	-0.28354	5.302239	-2.59516	0.021725	0.16334	-3.47904
Gm11513	-0.2839	3.95123	-2.64244	0.019838	0.156366	-3.39534
Duoxa2	-0.28415	3.691013	-3.07747	0.008525	0.104487	-2.60914
Chrm3	-0.28426	3.933065	-3.09847	0.008182	0.102474	-2.57066
Ttc14	-0.28438	5.478417	-2.50703	0.025717	0.177192	-3.63381
Rbm42	-0.28455	6.275696	-2.37879	0.032806	0.198877	-3.85575
Gm20467	-0.28467	3.971922	-3.09082	0.008305	0.103197	-2.58468
Fam124a	-0.28476	6.000522	-2.43561	0.029461	0.190182	-3.75794
Trim9	-0.28502	3.762273	-3.2836	0.005699	0.08565	-2.23033
Fam110a	-0.28504	4.522356	-2.89692	0.012121	0.121551	-2.93833
Gm5635	-0.28539	4.189987	-2.22162	0.044042	0.228776	-4.12155
1700013G2	-0.28546	3.745536	-3.1538	0.007344	0.0967	-2.46913
Cd300lb	-0.28571	3.812795	-3.05015	0.008992	0.106956	-2.65915
Ifngr2	-0.28573	10.00525	-2.43323	0.029594	0.190773	-3.76205
Kdm4b	-0.28605	5.138387	-2.48421	0.02686	0.181257	-3.67361
Lama5	-0.28614	7.80501	-2.33863	0.035386	0.20563	-3.92437
Cyp39a1	-0.28628	5.963145	-2.27822	0.039632	0.217156	-4.0267
D430036J1	-0.28643	3.657159	-4.3059	0.000792	0.034854	-0.35878
Tex19.2	-0.28654	3.742149	-3.76016	0.002253	0.05598	-1.35187
Ucn2	-0.28656	3.6304	-3.83327	0.001956	0.052101	-1.21762
Hsf4	-0.2866	4.988859	-2.27235	0.040068	0.218537	-4.03658
Tmem231	-0.28665	4.562566	-2.37777	0.032869	0.198988	-3.8575
Wnt5b	-0.28672	4.215364	-3.60458	0.003047	0.063917	-1.6383
Mybph	-0.28688	4.078078	-3.85	0.001893	0.051557	-1.18694
4833439L1	-0.28694	8.724043	-3.53643	0.003479	0.067579	-1.76398
Slc39a11	-0.287	4.718965	-4.27122	0.000846	0.036197	-0.42112

Nkx6-2	-0.28712	4.70833	-2.43148	0.029692	0.191232	-3.76508
Chmp3	-0.28717	4.838835	-2.22626	0.043663	0.227968	-4.1138
Spem1	-0.28727	3.520916	-3.31973	0.00531	0.083	-2.16374
Gm12927	-0.28755	3.926375	-2.73357	0.01664	0.143385	-3.23285
B3gnt8	-0.28761	3.611972	-3.59206	0.003122	0.064729	-1.66139
Gm7977	-0.28768	4.118532	-2.22471	0.04379	0.228192	-4.1164
Il1rn	-0.28825	3.726724	-4.23985	0.000898	0.037322	-0.47764
Adam8	-0.28832	4.136193	-2.28827	0.038893	0.214843	-4.00974
Prr30	-0.28846	3.609514	-3.5548	0.003357	0.066677	-1.7301
Krtdap	-0.28849	3.702272	-4.13429	0.001097	0.03993	-0.66845
Hmx2	-0.28854	4.500749	-4.15145	0.001062	0.039677	-0.63736
Naif1	-0.28887	4.542577	-2.54526	0.023905	0.171363	-3.56688
Coch	-0.28927	3.74428	-4.38987	0.000676	0.033	-0.20834
49305240C	-0.28939	3.647217	-3.61503	0.002985	0.063125	-1.61904
Lnp1	-0.28958	3.55866	-3.2561	0.006013	0.087839	-2.28099
Rscan18	-0.28962	4.118535	-2.3168	0.036867	0.209845	-3.96146
B9d1	-0.28966	5.067573	-2.63643	0.020069	0.157169	-3.40601
Cyp24a1	-0.2899	3.667711	-3.97633	0.001485	0.045603	-0.95582
Rhpn1	-0.2902	4.487386	-3.71312	0.002468	0.057893	-1.43838
Hp1bp3	-0.29029	6.93949	-2.36247	0.033832	0.201694	-3.8837
5830415F0	-0.29031	4.496936	-3.90429	0.001705	0.049196	-1.08748
Setbp1	-0.29043	6.201138	-2.59962	0.02154	0.162659	-3.47116
Apitd1	-0.29055	4.521718	-2.98526	0.010205	0.112905	-2.77765
Hsd3b3	-0.29057	3.390279	-3.77849	0.002174	0.054728	-1.31818
Ankrd24	-0.29062	4.625197	-2.74335	0.016328	0.142028	-3.21533
Vwa1	-0.29068	4.954108	-2.29609	0.038328	0.213112	-3.99654
Nacad	-0.29072	4.293279	-2.99856	0.009944	0.112243	-2.7534
Rab3il1	-0.29087	4.394604	-2.63447	0.020145	0.157584	-3.40948
Olfr1174-p	-0.29105	3.768131	-3.4117	0.004437	0.076357	-1.99412
Foxi2	-0.29113	4.335393	-3.69353	0.002563	0.059276	-1.47443
Zeb2	-0.29121	7.482164	-2.16369	0.049031	0.240744	-4.21753
Pithd1	-0.29122	4.406311	-3.07719	0.008529	0.104487	-2.60965
Snrpn	-0.29124	4.513397	-3.05239	0.008952	0.106878	-2.65504
Ptcra	-0.29126	4.266642	-2.41234	0.030789	0.194616	-3.7981
Kdm6b	-0.29141	7.294562	-2.58753	0.022046	0.164435	-3.49251
Zfp853	-0.29143	3.869424	-2.99267	0.010059	0.112317	-2.76415
Khsrp	-0.29155	7.193091	-2.23427	0.043018	0.226835	-4.10044
1700027J0	-0.29158	3.73971	-3.34746	0.00503	0.080753	-2.11261
Zfp689	-0.29158	4.03162	-2.78152	0.015165	0.137442	-3.1468
Pcsk9	-0.29159	4.193236	-3.68293	0.002616	0.06006	-1.49395
Gng7	-0.29175	4.679321	-2.5481	0.023776	0.170986	-3.5619
Vezf1	-0.29192	8.707553	-2.50016	0.026056	0.178543	-3.6458
Gpr25	-0.29193	3.820341	-3.83224	0.00196	0.052101	-1.21951
Rtn4r	-0.29195	4.379413	-2.21126	0.044897	0.230466	-4.13879
Olfr95	-0.29212	3.765072	-3.22657	0.00637	0.090341	-2.33535
Grm1	-0.29226	6.265652	-2.43599	0.029439	0.190146	-3.75727
Plekhg3	-0.29233	5.495273	-3.68128	0.002625	0.060087	-1.497
Trabd2b	-0.29285	7.932675	-2.73999	0.016435	0.142576	-3.22135

Podnl1	-0.29292	3.860211	-3.2059	0.006633	0.092121	-2.37337
Gata1	-0.29333	4.007141	-2.89954	0.012059	0.121279	-2.93357
Tas2r107	-0.29339	3.254347	-3.46404	0.004006	0.072198	-1.89755
Tk1	-0.29367	4.18601	-2.42485	0.030068	0.19235	-3.77653
Olf1373	-0.29368	4.142058	-3.65344	0.002771	0.061599	-1.54827
Mov10l1	-0.29371	3.950311	-3.12337	0.007794	0.099356	-2.52499
Prtn3	-0.29389	3.529566	-2.5524	0.023581	0.170415	-3.55435
Gm16108	-0.29396	3.806797	-2.82995	0.013805	0.131294	-3.05952
Manba	-0.29411	6.715413	-2.5198	0.025098	0.175323	-3.61149
Orm2	-0.29411	3.429196	-3.93003	0.001623	0.04804	-1.04039
Panx2	-0.29447	4.680403	-2.45493	0.028399	0.186772	-3.72447
B230217C1	-0.29462	4.352041	-2.70539	0.017571	0.147342	-3.28326
Cpeb3	-0.29464	6.758277	-2.5553	0.023451	0.170065	-3.54926
Emc4	-0.29486	8.75882	-2.3656	0.033633	0.201376	-3.87834
Sh2d5	-0.29502	4.083121	-3.64033	0.002842	0.062253	-1.57242
Nsa2	-0.29529	5.500468	-2.30814	0.037471	0.211425	-3.97615
Olf1959	-0.29542	3.543859	-2.75828	0.015863	0.139942	-3.18855
Slc52a3	-0.29549	4.514201	-3.41579	0.004402	0.076151	-1.98658
Mir1899	-0.29553	4.017276	-3.65805	0.002746	0.061556	-1.53978
Tmem186	-0.29554	6.713559	-2.95356	0.010856	0.116122	-2.83542
Gm3948	-0.29559	3.804189	-4.79716	0.000317	0.025191	0.509686
Olf1957	-0.29603	3.567318	-2.50384	0.025874	0.177784	-3.63938
Phtf2	-0.29626	7.816386	-4.23019	0.000914	0.037572	-0.49506
Tle2	-0.29627	4.584449	-2.94752	0.010984	0.116796	-2.8464
Slc1a7	-0.29627	3.870824	-2.46559	0.027829	0.184638	-3.70598
Mrps34	-0.29628	7.324192	-2.76985	0.015512	0.138613	-3.16777
Kctd6	-0.29647	4.929891	-2.20665	0.045283	0.231348	-4.14646
Zc3h12d	-0.29653	3.874359	-4.14931	0.001066	0.039677	-0.64125
Cox10	-0.29676	8.441138	-2.47882	0.027138	0.182188	-3.68299
Cacng8	-0.29682	4.043971	-2.66983	0.018819	0.152672	-3.34667
Bfsp2	-0.29705	3.786858	-2.97703	0.01037	0.113896	-2.79266
Krt79	-0.29708	3.795064	-5.12837	0.000174	0.019079	1.077392
Spns3	-0.29724	4.354797	-2.86464	0.012906	0.126018	-2.99682
Rbm26	-0.29774	7.082089	-2.22337	0.043899	0.228426	-4.11862
Lgi4	-0.29776	3.893277	-3.62798	0.002911	0.062595	-1.59518
Inafm1	-0.29808	5.334686	-2.60096	0.021485	0.1626	-3.4688
Top3b	-0.29822	5.991679	-2.76192	0.015752	0.139409	-3.18202
Plagl2	-0.29838	4.836322	-2.35424	0.03436	0.202983	-3.89774
Micu2	-0.29869	8.378323	-2.63082	0.020287	0.158179	-3.41596
Areg	-0.29872	3.761446	-3.24803	0.006109	0.088386	-2.29585
4932443119	-0.29884	3.978999	-2.53469	0.024394	0.17274	-3.58542
Cd164l2	-0.29888	4.302058	-2.60615	0.021272	0.162015	-3.45962
Erf	-0.2989	4.512658	-2.80414	0.014515	0.133939	-3.10608
Gm21136	-0.29893	3.975861	-2.62285	0.0206	0.159312	-3.43007
1700018BC	-0.29914	4.193368	-3.152	0.00737	0.096938	-2.47244
Prn	-0.29952	3.550759	-3.31956	0.005312	0.083	-2.16406
5730508BC	-0.29977	4.949887	-2.6155	0.020893	0.160601	-3.44309
Fam216b	-0.30008	3.927599	-3.3473	0.005032	0.080753	-2.11291

Nxt1	-0.3002	4.194626	-2.28977	0.038784	0.214718	-4.00722
Hpd1	-0.30047	4.214513	-3.36303	0.004879	0.079595	-2.08391
Il1f10	-0.30086	4.158978	-3.1991	0.006722	0.092763	-2.38589
Alx3	-0.301	4.448946	-2.25247	0.041584	0.222269	-4.06998
Olf1r549	-0.30172	4.500995	-3.41988	0.004367	0.075808	-1.97903
Pldi	-0.30177	3.919264	-4.13989	0.001086	0.039808	-0.6583
Nckap1l	-0.302	4.73507	-3.47277	0.003939	0.071617	-1.88144
Olf1r955	-0.30247	3.508433	-3.19648	0.006756	0.092951	-2.39071
Gm19461	-0.3025	4.595008	-2.9728	0.010456	0.114206	-2.80037
Abca6	-0.30252	6.600528	-2.40427	0.031263	0.195728	-3.81199
Dand5	-0.30294	4.17991	-2.60358	0.021377	0.162123	-3.46418
Dcakd	-0.30315	7.216916	-2.61147	0.021056	0.161233	-3.45023
Unc45b	-0.30334	8.052104	-2.72545	0.016903	0.144552	-3.24739
Hdac8	-0.30343	4.539039	-2.2882	0.038898	0.214843	-4.00987
Galp	-0.30405	4.414383	-3.92244	0.001647	0.048299	-1.05428
5430421N2	-0.30405	3.965	-3.54605	0.003414	0.067035	-1.74623
Zbtb1	-0.30412	5.387651	-2.2892	0.038825	0.21472	-4.00817
Tmem240	-0.30458	3.910456	-3.74729	0.002309	0.056509	-1.37552
4930413F2	-0.30464	4.32766	-3.12896	0.007709	0.098759	-2.51473
Pidd1	-0.30465	4.261902	-3.37905	0.004729	0.07842	-2.05436
Oaz1	-0.30512	4.593045	-2.39455	0.031843	0.1968	-3.8287
Uchl4	-0.30517	4.067144	-2.45311	0.028498	0.186926	-3.72763
Pls3	-0.30518	7.20874	-2.18316	0.047298	0.236834	-4.1854
Cpsf4	-0.30518	5.326575	-3.39693	0.004567	0.077338	-2.02137
Olf1r1197	-0.30521	3.546777	-4.28856	0.000819	0.035483	-0.38993
Adamts14	-0.30523	4.176488	-3.95375	0.00155	0.046786	-0.99704
Fam163a	-0.30525	3.860721	-3.26677	0.005889	0.087093	-2.26135
1700054K1	-0.30557	3.825243	-3.17076	0.007105	0.09532	-2.43798
Sc5d	-0.30601	6.113759	-2.18827	0.046853	0.23567	-4.17695
Vax1	-0.30616	4.097246	-3.32563	0.005249	0.082595	-2.15287
Antxr1	-0.30632	6.691406	-2.29672	0.038283	0.213005	-3.99548
Pfkfb3	-0.30652	5.193581	-2.58699	0.022069	0.164506	-3.49346
Bag5	-0.30665	5.291012	-4.39096	0.000675	0.033	-0.20639
Mir99ahg	-0.30683	4.274646	-2.78155	0.015164	0.137442	-3.14674
Mrpl41	-0.30691	5.687693	-2.51579	0.025291	0.175817	-3.61851
Plekhh2	-0.30781	5.009179	-2.8044	0.014507	0.133921	-3.10561
Wipf1	-0.30793	4.820157	-2.45117	0.028603	0.187299	-3.731
Cep131	-0.30831	5.311178	-2.94034	0.011139	0.117558	-2.85946
4930500L2	-0.30859	3.736816	-3.34823	0.005023	0.080753	-2.11121
Slurp1	-0.30872	3.933611	-2.45213	0.028551	0.187104	-3.72933
St5	-0.30903	5.347439	-2.32095	0.036581	0.208866	-3.95442
Mcc	-0.30914	7.094944	-3.12265	0.007805	0.099399	-2.52632
Kdelc1	-0.30973	5.285075	-3.78068	0.002165	0.05469	-1.31415
Smarcd2	-0.30982	5.025753	-2.72822	0.016813	0.144225	-3.24242
Gm10499	-0.30997	4.13766	-4.70945	0.000373	0.026719	0.356826
Gm9767	-0.31001	4.053655	-3.31618	0.005347	0.083341	-2.1703
Ager	-0.31021	4.20785	-2.67056	0.018792	0.152621	-3.34536
Aqp12	-0.31021	3.638596	-3.36481	0.004862	0.079559	-2.08061

Otud3	-0.31028	4.767225	-2.83127	0.01377	0.131074	-3.05714
Hoxb9	-0.31068	4.017839	-3.87597	0.001801	0.05036	-1.13934
Pxt1	-0.31073	4.24519	-2.2684	0.040366	0.219225	-4.04323
Arrdc1	-0.31077	4.099821	-2.99331	0.010046	0.112245	-2.76297
Csrnp3	-0.31078	3.731817	-4.14565	0.001074	0.039677	-0.64787
Pex5l	-0.31081	4.2165	-4.00095	0.001416	0.044615	-0.91089
Sh3gl3	-0.31119	3.713545	-3.23951	0.006211	0.088897	-2.31154
Me3	-0.31146	8.840363	-3.68058	0.002628	0.060114	-1.49828
Abca12	-0.31152	4.801273	-2.32274	0.036459	0.208551	-3.95139
Olf1819	-0.31158	3.675103	-3.38667	0.004659	0.077947	-2.0403
Hmg20a	-0.31168	6.126387	-5.64539	7.03E-05	0.014445	1.931006
4930478LO	-0.31205	3.770245	-4.34828	0.000731	0.03367	-0.28276
Susd5	-0.3124	4.136605	-4.74016	0.000352	0.025999	0.410457
Anapc2	-0.31252	6.894521	-2.73697	0.016531	0.14298	-3.22676
Rnf183	-0.31253	3.833886	-3.27793	0.005762	0.086188	-2.24079
Wrb	-0.31262	5.925073	-2.39741	0.031671	0.196427	-3.82379
Apoa4	-0.31285	4.223458	-2.54484	0.023925	0.171454	-3.56763
Rpl36al	-0.31285	4.849108	-2.36062	0.03395	0.202007	-3.88685
4732471JO	-0.31288	4.296036	-2.94826	0.010968	0.116796	-2.84506
Olf1656	-0.31293	3.641958	-3.33822	0.005122	0.081593	-2.12966
Gm10941	-0.31367	3.789373	-4.29787	0.000804	0.035081	-0.37319
E2f1	-0.31443	4.124524	-3.33791	0.005125	0.081593	-2.13024
Hcfc2	-0.31449	5.685042	-2.37547	0.033012	0.199438	-3.86145
Hcrt	-0.31459	3.932631	-3.24859	0.006102	0.088386	-2.29483
Aph1b	-0.31468	4.892627	-4.37294	0.000698	0.033123	-0.2386
Ache	-0.31486	4.303184	-3.01067	0.009712	0.110923	-2.73129
1700011BC	-0.31493	3.481287	-5.81542	5.26E-05	0.012606	2.202602
Abcg4	-0.31523	4.018494	-3.23568	0.006258	0.089253	-2.31859
Rab5a	-0.31525	8.08847	-3.14874	0.007417	0.097228	-2.47843
2310003HC	-0.31535	5.512899	-3.40441	0.004501	0.07686	-2.00757
Memo1	-0.31544	5.858066	-2.16635	0.048791	0.240187	-4.21316
Tmem242	-0.31599	6.70301	-2.57537	0.022566	0.166143	-3.51395
Olf13	-0.31638	3.416759	-3.1763	0.007028	0.094671	-2.4278
Mettl14	-0.31671	6.769379	-3.13259	0.007655	0.09838	-2.50808
Peg10	-0.31676	4.70197	-3.99628	0.001429	0.04468	-0.9194
Ube2i	-0.31679	3.961802	-2.64625	0.019693	0.155717	-3.38858
Ccdc9	-0.31688	4.410243	-3.84019	0.00193	0.051921	-1.20493
Cmtr2	-0.31692	3.834298	-3.7797	0.002169	0.05469	-1.31596
Sdhaf4	-0.31706	4.504881	-2.67096	0.018778	0.152621	-3.34465
Socs5	-0.31738	4.917321	-4.1324	0.001101	0.03993	-0.67189
Mbtps2	-0.3175	6.344506	-3.0156	0.009619	0.11045	-2.7223
Pcmt1	-0.31751	8.41058	-5.52863	8.60E-05	0.014927	1.74185
Gng10	-0.31763	6.067583	-2.307	0.037552	0.211735	-3.97808
Ankrd39	-0.31773	5.082184	-4.06569	0.001251	0.042022	-0.793
Nt5c2	-0.31783	7.621033	-3.72759	0.002399	0.057456	-1.41175
Olf1266	-0.31791	3.540265	-4.7261	0.000362	0.026433	0.385931
Slc6a20a	-0.31838	4.06851	-2.95373	0.010852	0.116122	-2.8351
4933439C1	-0.31859	5.063851	-2.99439	0.010025	0.112245	-2.76101



Zfp948	-0.31864	4.896016	-2.40425	0.031265	0.195728	-3.81204
Rpl22	-0.31915	4.735769	-2.62892	0.020361	0.15847	-3.41933
Negr1	-0.31916	4.094977	-3.28753	0.005655	0.08546	-2.22309
Polr3g	-0.31927	5.076855	-2.8728	0.012703	0.124972	-2.98204
Taar9	-0.31939	3.300184	-3.99901	0.001421	0.044615	-0.91443
Aprt	-0.31941	4.954878	-2.95413	0.010843	0.116093	-2.83438
Lypd4	-0.31943	3.728304	-4.52079	0.000529	0.030313	0.024673
Med10	-0.31949	5.427823	-2.19187	0.046541	0.235071	-4.17099
Trav12-3	-0.31955	3.614478	-2.70351	0.017635	0.14745	-3.28662
1700105PC	-0.31959	4.505246	-3.61806	0.002968	0.062847	-1.61347
Oas3	-0.31963	4.028012	-2.514	0.025377	0.176075	-3.62164
Trnau1ap	-0.31974	5.324344	-2.39869	0.031595	0.196396	-3.8216
Gpr155	-0.31975	6.827267	-2.69015	0.018096	0.149504	-3.31045
Tac1	-0.31982	3.689697	-3.76609	0.002227	0.055528	-1.34097
Hoxb1	-0.3199	3.908412	-3.59538	0.003102	0.064522	-1.65526
Sftpa1	-0.32017	3.974843	-2.83248	0.013738	0.130853	-3.05497
Six3	-0.32052	4.376522	-2.78124	0.015173	0.137442	-3.1473
Snca	-0.32055	4.147179	-3.44552	0.004154	0.073862	-1.93171
Shisa2	-0.3206	4.179545	-3.1304	0.007687	0.098612	-2.5121
9530082P2	-0.32078	4.167735	-2.92122	0.011561	0.119853	-2.89422
Enoph1	-0.3208	5.958415	-2.7104	0.017402	0.146747	-3.2743
Sec16b	-0.32086	4.129771	-4.41439	0.000646	0.032755	-0.16454
Xylt2	-0.32087	4.720098	-2.31858	0.036744	0.209383	-3.95845
A730085EC	-0.32095	4.402837	-3.22203	0.006427	0.090568	-2.34371
Ier3ip1	-0.32122	6.712436	-3.29744	0.005547	0.084749	-2.20484
Gm10007	-0.32127	4.373706	-3.29646	0.005557	0.084807	-2.20665
Smim14	-0.32138	7.769162	-4.14783	0.001069	0.039677	-0.64393
Gm1070	-0.32163	4.47623	-3.98586	0.001458	0.045242	-0.93843
Gm9079	-0.32176	4.07545	-4.17236	0.001021	0.039214	-0.59952
Trpc1	-0.32193	6.003262	-2.43895	0.029274	0.189688	-3.75215
Sh3pxd2a	-0.32222	5.523136	-2.45324	0.02849	0.186926	-3.7274
Axin2	-0.32226	4.429364	-3.89093	0.00175	0.049941	-1.11194
Foxc2	-0.32247	4.21393	-3.18898	0.006856	0.093296	-2.40449
Acrbp	-0.32252	4.518589	-2.97203	0.010472	0.114295	-2.80177
H2-Q10	-0.32267	3.873742	-2.51524	0.025317	0.17589	-3.61947
Pitpnm2	-0.32275	6.09904	-2.32027	0.036628	0.209012	-3.95558
A930016O	-0.32277	4.731194	-2.61868	0.020766	0.160074	-3.43746
Tmem247	-0.32291	3.77645	-2.41957	0.03037	0.193118	-3.78563
Esco1	-0.32329	6.273739	-3.34789	0.005026	0.080753	-2.11183
Cacna1g	-0.32332	4.401001	-3.0627	0.008774	0.106039	-2.63617
Acp6	-0.32347	6.461965	-2.5739	0.02263	0.166441	-3.51653
Gm11783	-0.32349	3.859005	-2.3989	0.031582	0.196396	-3.82123
4833428L1	-0.3235	3.93306	-3.01311	0.009666	0.110879	-2.72684
Psip1	-0.32366	5.231398	-2.57226	0.022701	0.166818	-3.51942
Pde4b	-0.32368	5.150496	-3.95457	0.001548	0.046786	-0.99554
Vps37d	-0.32369	4.100525	-3.42981	0.004283	0.075034	-1.9607
Fam159b	-0.32374	3.984775	-2.60166	0.021456	0.1626	-3.46756
Ybx2	-0.32392	4.898587	-3.15887	0.007272	0.096052	-2.45983

Zfp142	-0.32393	5.965641	-3.89521	0.001735	0.049702	-1.1041
Rrbp1	-0.32435	7.336361	-3.65671	0.002753	0.061581	-1.54223
Rilp	-0.3245	8.022156	-2.91871	0.011618	0.11989	-2.89878
Gm29035	-0.32456	3.822094	-3.5681	0.003271	0.066221	-1.70556
Tnni2	-0.32463	4.213825	-2.47112	0.027538	0.18349	-3.69638
Gm536	-0.32463	3.928911	-2.94832	0.010967	0.116796	-2.84495
Rps3	-0.32484	6.69712	-2.61498	0.020914	0.160601	-3.444
Ptpn5	-0.32484	4.159034	-4.79674	0.000318	0.025191	0.508969
Fam53c	-0.32507	5.782617	-3.46059	0.004033	0.072553	-1.90392
4930451111	-0.32514	3.77802	-4.65835	0.00041	0.027213	0.267297
Olfr455	-0.32536	4.167397	-3.50945	0.003667	0.069162	-1.81376
4930579G2	-0.32557	4.181778	-4.24945	0.000882	0.037172	-0.46032
Dek	-0.32585	6.583818	-4.02917	0.001342	0.04352	-0.85946
Scg2	-0.32601	3.767088	-2.78081	0.015186	0.137481	-3.14808
Olfr1371	-0.32639	4.166723	-3.1703	0.007111	0.09532	-2.43883
Defb36	-0.32655	4.070774	-3.22009	0.006452	0.090717	-2.34727
Sst	-0.32659	3.967892	-4.44724	0.000607	0.031585	-0.10598
LOC102631	-0.32667	4.231683	-3.70008	0.002531	0.058746	-1.46238
Muc4	-0.3267	4.069395	-2.66286	0.019073	0.153648	-3.35907
Tssk5	-0.32674	3.793089	-4.7941	0.000319	0.025191	0.504385
E130102H2	-0.32681	4.180671	-2.23352	0.043078	0.226909	-4.1017
1700101E0	-0.32687	4.029273	-4.04861	0.001292	0.042778	-0.82408
Sgsm3	-0.32723	4.177692	-2.48521	0.026809	0.181067	-3.67186
Prkrip1	-0.32726	4.834907	-2.38067	0.03269	0.198714	-3.85253
4933405D1	-0.32748	3.786209	-2.95074	0.010915	0.116461	-2.84055
Fam132a	-0.32771	4.654177	-2.37946	0.032764	0.198877	-3.8546
Gm10714	-0.32772	4.004434	-2.57628	0.022527	0.166143	-3.51234
Kank2	-0.32776	7.335958	-2.8066	0.014445	0.13377	-3.10165
Dnaja4	-0.32793	7.580176	-3.02186	0.009502	0.109718	-2.71086
Asb1	-0.32797	5.067461	-2.92581	0.011458	0.119389	-2.88589
Zfp524	-0.32823	5.66352	-2.38142	0.032644	0.19855	-3.85125
Bahd1	-0.32829	4.65633	-3.47626	0.003912	0.071455	-1.875
Mir9-3	-0.32834	4.239153	-2.53494	0.024382	0.17274	-3.58498
Gm31683	-0.32835	3.960909	-2.24674	0.04203	0.223838	-4.07958
Pex1	-0.32929	4.431385	-2.46338	0.027946	0.18497	-3.70981
Zfp472	-0.3293	4.045312	-4.51125	0.000539	0.030405	0.007766
Trim43c	-0.32932	3.824682	-3.81266	0.002035	0.053367	-1.25544
Ehd4	-0.32959	10.02694	-2.41951	0.030374	0.193118	-3.78574
Lvrn	-0.32975	4.642415	-2.17766	0.047782	0.237892	-4.1945
Gm8801	-0.33008	4.913571	-2.79772	0.014696	0.134815	-3.11764
Gpm6b	-0.33025	5.334062	-2.54006	0.024144	0.17248	-3.57601
2610035D1	-0.33029	4.502009	-3.7314	0.002382	0.057429	-1.40475
H2-Q2	-0.33037	3.800556	-2.86628	0.012865	0.125887	-2.99386
4930579DC	-0.33049	4.880166	-2.47777	0.027192	0.182265	-3.68481
Wfdc10	-0.3305	4.365351	-3.41035	0.004449	0.076357	-1.99661
Gm14487	-0.33058	3.984122	-2.31675	0.036871	0.209845	-3.96155
Avp	-0.33067	4.492054	-2.69515	0.017922	0.148662	-3.30154
Ftsj1	-0.33084	6.62185	-2.34804	0.034764	0.204166	-3.90832

Gm20757	-0.33086	3.719905	-2.37641	0.032954	0.199326	-3.85984
2010107G2	-0.33106	5.438961	-2.92627	0.011448	0.119378	-2.88505
Tonsl	-0.33119	3.79933	-3.41091	0.004444	0.076357	-1.99557
Sgcd	-0.33124	6.443915	-2.50748	0.025695	0.177101	-3.63303
Mrgprg	-0.33146	3.999798	-3.33966	0.005107	0.081494	-2.127
2010009K1	-0.33181	3.875354	-3.20379	0.00666	0.092328	-2.37726
Cacng6	-0.33205	3.693268	-4.20384	0.000961	0.038235	-0.54261
Mxd3	-0.33208	3.975481	-4.0385	0.001318	0.043116	-0.84248
6030419C1	-0.3321	4.64336	-2.48421	0.02686	0.181257	-3.67361
Tm7sf2	-0.33229	4.600293	-3.5111	0.003655	0.069102	-1.81071
Dmbx1	-0.3323	3.667267	-2.75745	0.015889	0.140119	-3.19005
Gm12522	-0.3326	3.782269	-3.0694	0.00866	0.105173	-2.62391
Rrp8	-0.33301	4.401689	-2.3516	0.034532	0.203418	-3.90226
Ninl	-0.3332	4.387926	-3.73982	0.002343	0.056997	-1.38926
P2ry1	-0.3332	7.121975	-2.43995	0.029219	0.189508	-3.75043
Zfand1	-0.33345	5.110294	-2.58247	0.022261	0.165295	-3.50144
Ghrhr	-0.33345	3.911725	-3.45221	0.0041	0.073296	-1.91937
Nkx1-1	-0.33366	4.866536	-2.66534	0.018982	0.153364	-3.35465
Ppifos	-0.3337	4.690082	-2.44792	0.02878	0.188035	-3.73663
Gm20939	-0.33374	3.989705	-4.20475	0.00096	0.038231	-0.54097
A430046D	-0.33406	5.372359	-3.63052	0.002897	0.062461	-1.5905
Spata5l1	-0.33441	5.062937	-3.05583	0.008893	0.106694	-2.64875
Satb1	-0.33445	6.266856	-3.17912	0.006989	0.09438	-2.42261
Dpep1	-0.33457	9.402703	-2.65551	0.019345	0.15454	-3.37214
Hnrnp1	-0.335	8.859517	-2.7032	0.017645	0.14745	-3.28716
Foxe1	-0.33511	4.644296	-2.26733	0.040446	0.219298	-4.04502
Traj39	-0.33511	4.597258	-2.18868	0.046817	0.23567	-4.17627
Dnaaf1	-0.3353	4.057448	-4.02449	0.001354	0.043702	-0.86799
Fhl2	-0.3353	11.77669	-2.7003	0.017745	0.147997	-3.29234
Mir431	-0.33536	4.313929	-2.76758	0.01558	0.138725	-3.17185
Hyls1	-0.33537	4.283322	-2.33437	0.03567	0.206402	-3.93162
C130074G	-0.33538	4.882114	-2.70459	0.017598	0.147342	-3.28468
Ccl5	-0.3354	4.12413	-4.28683	0.000821	0.03551	-0.39305
Cypt3	-0.33543	4.047457	-3.01195	0.009687	0.110879	-2.72895
Mir5125	-0.33554	8.579624	-2.87875	0.012557	0.124368	-2.97127
Cfd	-0.33559	4.003184	-2.1729	0.048204	0.238969	-4.20236
Gm6194	-0.33584	4.897024	-2.70688	0.017521	0.147299	-3.28059
Gm20324	-0.33665	4.352022	-3.04361	0.009107	0.107708	-2.67109
C330021F2	-0.33689	3.748711	-3.96425	0.001519	0.046349	-0.97787
Gad1os	-0.33701	3.882031	-3.48582	0.00384	0.070709	-1.85737
Pde1a	-0.33711	4.81419	-2.23335	0.043092	0.226909	-4.10198
Cc2d2a	-0.33726	5.242503	-2.37494	0.033045	0.199443	-3.86236
Kif6	-0.33734	4.239371	-3.57526	0.003226	0.06579	-1.69236
Plekhd1os	-0.33737	3.765316	-3.47246	0.003941	0.071617	-1.882
Olfr857	-0.33751	3.680608	-4.13117	0.001104	0.039942	-0.67412
Mansc4	-0.33779	4.092497	-2.99334	0.010046	0.112245	-2.76292
Dis3	-0.33804	6.844326	-3.36396	0.004871	0.079559	-2.0822
Pabpc4l	-0.3381	3.524148	-4.19618	0.000975	0.038427	-0.55645

BC051226	-0.33855	4.399573	-2.75659	0.015915	0.140291	-3.19159
C1qtnf4	-0.33858	5.470523	-2.76676	0.015605	0.138772	-3.17332
Astl	-0.33904	3.734372	-4.06864	0.001244	0.041978	-0.78764
Ush1g	-0.33922	4.33511	-3.1306	0.007684	0.098612	-2.51173
Btn1a1	-0.3393	3.723987	-4.08829	0.001198	0.041308	-0.75193
Ddrgk1	-0.33932	7.773861	-4.99482	0.000222	0.021397	0.850359
Pabpn1	-0.33971	7.404202	-2.77878	0.015246	0.137673	-3.15173
Itsn1	-0.33971	5.211656	-3.99663	0.001428	0.04468	-0.91878
Cuzd1	-0.33977	3.680294	-3.63378	0.002879	0.062351	-1.58448
Rpl41	-0.33986	4.370433	-3.38799	0.004647	0.077851	-2.03786
Rbm18	-0.33997	7.366638	-2.53053	0.024588	0.173459	-3.59272
Slc25a48	-0.34026	4.10005	-4.46161	0.000591	0.031294	-0.0804
1700006J1	-0.34032	3.902351	-3.62921	0.002904	0.062565	-1.59291
Sstr5	-0.34043	3.769158	-2.78543	0.015051	0.136955	-3.13977
0610037L1	-0.34046	6.492042	-2.47774	0.027193	0.182265	-3.68486
1700120E1	-0.3406	3.738473	-3.78125	0.002163	0.05469	-1.31311
Ccm2	-0.34066	4.88289	-2.81907	0.0141	0.132472	-3.07916
H2-K2	-0.34077	5.352075	-2.8476	0.01334	0.128643	-3.02764
Med12l	-0.34098	5.289795	-2.48549	0.026795	0.181067	-3.67137
Sertad4	-0.341	4.152089	-2.90837	0.011854	0.120476	-2.91755
Trbj1-2	-0.34119	5.117493	-2.69879	0.017796	0.148124	-3.29504
Bmp3	-0.34163	4.04598	-2.86608	0.01287	0.125887	-2.99421
Tcte1	-0.34181	4.205236	-3.7282	0.002397	0.057456	-1.41063
Dcn	-0.34189	11.7965	-4.1455	0.001074	0.039677	-0.64814
Lppr3	-0.34228	4.17147	-3.78259	0.002157	0.054662	-1.31065
Snora5c	-0.34237	9.097371	-2.34677	0.034848	0.204416	-3.9105
Mir539	-0.34239	3.911977	-3.32469	0.005259	0.082688	-2.15461
Cap2	-0.34241	9.757833	-4.36682	0.000706	0.033174	-0.24955
Defa-rs1	-0.34249	4.403788	-2.52408	0.024893	0.174931	-3.604
Prok1	-0.3425	4.036109	-2.76786	0.015572	0.138715	-3.17135
Tnn	-0.34253	4.145791	-2.51043	0.025551	0.176687	-3.62788
Vmo1	-0.34254	3.760617	-4.90208	0.000262	0.023269	0.691188
Atxn10	-0.34262	8.723874	-2.2489	0.041861	0.223135	-4.07595
Epha10	-0.34269	4.283895	-3.78979	0.002127	0.054522	-1.29744
Pdgfra	-0.3431	7.98763	-2.63939	0.019955	0.156691	-3.40076
0610009B2	-0.34332	4.416233	-3.69091	0.002576	0.059522	-1.47926
Dnajc25	-0.34361	6.611396	-2.30561	0.03765	0.211999	-3.98044
Catsperg1	-0.34382	3.747603	-3.25576	0.006017	0.087839	-2.28163
Dnajb14	-0.34418	4.95291	-2.87101	0.012747	0.125301	-2.98529
Kcna2	-0.34427	3.757229	-4.84433	0.000291	0.024372	0.591474
Gm830	-0.34447	3.776335	-2.99159	0.01008	0.112371	-2.76612
Slc30a3	-0.34483	3.986847	-4.05266	0.001283	0.042624	-0.81671
Btbd17	-0.34502	3.847917	-2.97376	0.010436	0.114162	-2.79862
1700047K1	-0.34538	4.452474	-3.33601	0.005144	0.081722	-2.13374
Flnc	-0.34561	8.833052	-2.39936	0.031555	0.196396	-3.82043
LOC10263	-0.34562	3.596638	-2.16048	0.049323	0.241398	-4.22283
Crocc	-0.34568	4.504244	-2.2354	0.042927	0.2267	-4.09854
Ubxn10	-0.34573	4.272775	-2.9859	0.010192	0.112865	-2.77649

Htati2	-0.34587	5.675371	-2.73227	0.016682	0.143696	-3.23518
Perp	-0.34593	9.520393	-3.61447	0.002989	0.063125	-1.62007
Arx	-0.34611	4.231405	-3.87479	0.001805	0.050363	-1.14151
Tceal3	-0.34622	4.706775	-2.2915	0.038659	0.21433	-4.0043
Zfp35	-0.34629	3.958203	-3.65054	0.002786	0.061792	-1.55361
Nrap	-0.34638	10.99803	-3.21836	0.006473	0.090921	-2.35046
Smyd2	-0.34644	8.616818	-2.69541	0.017913	0.148637	-3.30107
Slc8a1	-0.34657	8.881076	-2.97912	0.010328	0.113608	-2.78886
BC024139	-0.34657	4.056695	-3.75835	0.002261	0.056085	-1.3552
Ccdc23	-0.34681	5.151303	-2.75324	0.016019	0.140682	-3.19759
Pdgfa	-0.34697	7.236508	-3.41735	0.004388	0.076026	-1.9837
Hck	-0.34706	4.086726	-3.01019	0.009721	0.110955	-2.73217
Pisd-ps2	-0.34706	3.859428	-2.18659	0.046998	0.236132	-4.17972
Olfr143	-0.34709	3.533159	-3.72362	0.002418	0.057456	-1.41906
Zfp384	-0.34718	6.659743	-3.74979	0.002298	0.05644	-1.37093
Prmp5	-0.34748	4.657642	-2.37783	0.032866	0.198988	-3.8574
Pkd2l2	-0.34772	4.447233	-2.59966	0.021539	0.162659	-3.47109
Polr1e	-0.34787	5.473687	-2.19314	0.046432	0.234707	-4.16887
Spire2	-0.34791	4.103551	-3.43844	0.004211	0.074422	-1.94479
Hypm	-0.34803	3.850072	-4.1471	0.001071	0.039677	-0.64524
Tceal6	-0.3483	3.728845	-3.52447	0.003561	0.068153	-1.78605
Gm6034	-0.34836	4.585424	-3.20746	0.006613	0.091949	-2.3705
Trim60	-0.34848	3.560133	-5.21271	0.00015	0.017742	1.219421
Camk2n1	-0.34863	6.579593	-2.17073	0.048397	0.23956	-4.20592
Por	-0.34863	6.686198	-2.86976	0.012778	0.125363	-2.98756
Dmrt1	-0.34873	3.893912	-4.35715	0.000719	0.033465	-0.26686
Atf6b	-0.34886	4.958218	-3.16821	0.00714	0.09532	-2.44268
Ppp1r1a	-0.34951	4.724006	-2.59229	0.021846	0.163677	-3.48411
Sdf2	-0.34958	5.270525	-2.52239	0.024974	0.174974	-3.60697
Lbr	-0.34968	5.095015	-4.46657	0.000586	0.031294	-0.07159
Papd7	-0.34983	5.790578	-3.66868	0.00269	0.060969	-1.52019
Gkn1	-0.3499	3.867935	-5.28513	0.000132	0.017404	1.340516
Gm5415	-0.35006	3.581397	-3.6703	0.002681	0.060932	-1.5172
Hnrnp3	-0.35008	8.432709	-3.36069	0.004902	0.079707	-2.08822
Itih1	-0.35022	4.009133	-5.2791	0.000133	0.017404	1.330468
Pbdc1	-0.35028	5.270498	-2.79779	0.014694	0.134815	-3.11753
Cep41	-0.35032	4.217904	-3.03573	0.009248	0.108326	-2.68551
Prkca	-0.35065	6.35202	-2.66297	0.019069	0.153648	-3.35887
A93000711	-0.35078	4.254786	-3.18695	0.006883	0.093439	-2.40823
Fgf17	-0.35083	4.388387	-3.10526	0.008074	0.101841	-2.55821
Zbed3	-0.35116	6.006877	-3.48056	0.003879	0.071224	-1.86706
Tmem263	-0.35152	4.709822	-2.6849	0.01828	0.150181	-3.31983
Mir329	-0.35168	4.306091	-3.57809	0.003208	0.065756	-1.68714
F8a	-0.3518	4.147832	-3.85282	0.001883	0.051557	-1.18177
Defb4	-0.35188	4.192225	-2.36074	0.033942	0.202007	-3.88665
D630045J1	-0.352	4.407823	-3.43909	0.004206	0.074422	-1.94358
C87499	-0.35229	3.715213	-3.24722	0.006118	0.088386	-2.29733
Gm15461	-0.35247	4.390006	-3.22741	0.00636	0.090244	-2.3338

Mir324	-0.35278	5.905806	-2.16478	0.048933	0.240408	-4.21575
Gnat1	-0.35295	3.956418	-2.48093	0.027029	0.182017	-3.67931
Mpeg1	-0.35306	4.498111	-2.53433	0.02441	0.17274	-3.58604
Pigp	-0.35317	5.306814	-2.30617	0.03761	0.211872	-3.97949
Mir330	-0.35335	4.831465	-3.28794	0.00565	0.085444	-2.22234
Kcnc3	-0.35373	5.663795	-4.16587	0.001033	0.039457	-0.61127
Slc16a7	-0.35389	5.021949	-3.05218	0.008956	0.106878	-2.65542
Stk-ps2	-0.35402	3.453442	-3.04985	0.008997	0.106966	-2.6597
Atp9b	-0.35417	5.251299	-2.76611	0.015624	0.138772	-3.17449
Arg1	-0.35432	3.994717	-3.8816	0.001781	0.050272	-1.12903
Cyp2j9	-0.35438	4.330622	-2.70324	0.017644	0.14745	-3.2871
Apobec1	-0.35439	6.498586	-3.55235	0.003373	0.06681	-1.73463
Mcidas	-0.35442	3.63936	-4.17696	0.001012	0.039168	-0.5912
Gm9731	-0.35445	3.75108	-2.86368	0.01293	0.126105	-2.99856
Prap1	-0.35609	3.725518	-5.21777	0.000149	0.017742	1.227901
Angpt4	-0.35613	4.195633	-3.00477	0.009824	0.111521	-2.74207
2310022BC	-0.35742	8.275065	-3.00755	0.009771	0.11113	-2.73699
Cym	-0.35776	4.399407	-4.15173	0.001061	0.039677	-0.63686
Nanos1	-0.3578	3.98744	-5.0985	0.000184	0.01936	1.02684
Bri3	-0.35781	4.251433	-2.38921	0.032166	0.197348	-3.83788
Sec22b	-0.35788	6.238376	-2.34339	0.03507	0.205001	-3.91626
Nebi	-0.35828	9.967346	-2.92825	0.011404	0.119145	-2.88145
Kansl1	-0.35837	7.178399	-3.40345	0.004509	0.07686	-2.00934
Msx1os	-0.35859	3.975164	-3.86357	0.001845	0.05095	-1.16206
Ppargc1a	-0.35982	9.841573	-3.51067	0.003658	0.069102	-1.8115
B3gnt5	-0.35986	3.700521	-4.26931	0.000849	0.036266	-0.42457
Farsa	-0.36018	5.046146	-2.24371	0.042268	0.224621	-4.08464
Gm15527	-0.36038	3.750393	-2.65312	0.019434	0.154832	-3.37637
Fgf4	-0.36058	3.988898	-2.36071	0.033944	0.202007	-3.8867
Gm13271	-0.3609	4.662325	-4.08413	0.001208	0.041464	-0.75948
Gm12238	-0.36108	4.660929	-2.37921	0.03278	0.198877	-3.85504
Dguok	-0.36121	6.25706	-3.65413	0.002767	0.061599	-1.54698
Cdon	-0.36141	4.044391	-2.89817	0.012091	0.121451	-2.93606
Limk2	-0.36194	4.841164	-2.65771	0.019263	0.154199	-3.36822
Nip7	-0.36196	5.992198	-4.94461	0.000243	0.022522	0.764338
Selt	-0.36233	8.666816	-2.34006	0.03529	0.205509	-3.92193
Kcp	-0.36235	4.323873	-4.10389	0.001163	0.040865	-0.72361
Fam83c	-0.36264	3.816566	-5.92141	4.40E-05	0.012162	2.369576
Commd8	-0.36275	5.736922	-2.20665	0.045283	0.231348	-4.14646
1500035N2	-0.36305	3.848831	-4.76498	0.000337	0.025389	0.453731
Lrrc14b	-0.36309	7.952894	-2.88258	0.012464	0.123543	-2.96433
Decr1	-0.3631	10.24423	-3.09957	0.008165	0.102306	-2.56865
Tmpo	-0.36338	5.890578	-3.27342	0.005813	0.086535	-2.2491
Wsb2	-0.36365	7.79441	-2.17229	0.048258	0.239104	-4.20335
Prkag3	-0.36375	4.356047	-2.90305	0.011977	0.121077	-2.92721
Olf354	-0.36377	3.983887	-3.12709	0.007737	0.098854	-2.51818
Gpr3	-0.36379	4.201408	-3.14131	0.007525	0.097851	-2.49207
Gng2	-0.36391	5.125176	-2.47135	0.027526	0.18346	-3.69598

Gsdmcl1	-0.36396	4.482736	-3.65744	0.002749	0.061574	-1.5409
Bpifb9a	-0.364	3.755502	-3.78517	0.002146	0.054522	-1.30592
Tmed4	-0.36404	9.360948	-2.19284	0.046458	0.234743	-4.16937
Olf1505	-0.36407	5.134369	-2.42403	0.030114	0.19235	-3.77793
Pcdh7	-0.36434	9.030396	-2.76673	0.015606	0.138772	-3.17337
Srpk2	-0.36436	8.292755	-2.20485	0.045435	0.231794	-4.14945
Strbp	-0.36437	4.80935	-3.33773	0.005127	0.081593	-2.13056
Mrpl34	-0.36442	7.964437	-2.15948	0.049413	0.241671	-4.22446
Ppp2r1a	-0.36446	10.37994	-2.52901	0.02466	0.173815	-3.59537
Hiat1	-0.36469	6.736115	-2.39724	0.031682	0.196427	-3.82408
Osbpl8	-0.36475	9.024658	-3.14859	0.007419	0.097228	-2.4787
A330032B1	-0.36477	4.333566	-3.17981	0.00698	0.09438	-2.42135
Tfeb	-0.36533	4.787876	-4.01155	0.001388	0.044033	-0.89157
Lmo2	-0.36536	6.187439	-2.78145	0.015167	0.137442	-3.14693
Tpcn2	-0.36707	5.182841	-2.21501	0.044586	0.229533	-4.13256
Wipf2	-0.36725	5.234344	-2.79193	0.014862	0.135986	-3.12807
H3f3b	-0.36789	4.59828	-2.49763	0.026182	0.179011	-3.65021
Lim2	-0.36821	4.073546	-3.28385	0.005696	0.08565	-2.22988
Casp16	-0.36877	4.392275	-2.35839	0.034093	0.202327	-3.89066
Cdkl5	-0.36888	4.860318	-3.74322	0.002328	0.056789	-1.38301
Trib1	-0.36909	6.464383	-2.37908	0.032788	0.198877	-3.85526
Urm1	-0.36932	4.761305	-2.23053	0.043318	0.227433	-4.10669
Heatr5b	-0.36938	7.486043	-3.4469	0.004142	0.073769	-1.92917
5730559C1	-0.36941	4.271676	-3.19618	0.00676	0.092954	-2.39126
Lrp4	-0.36945	4.80209	-3.54942	0.003392	0.066964	-1.74002
Ttc30b	-0.36965	4.563875	-2.79022	0.014911	0.136337	-3.13114
Bdh2	-0.36986	3.978155	-4.12093	0.001126	0.040206	-0.69268
4930456L1	-0.36994	3.856532	-3.39102	0.00462	0.077654	-2.03228
Ap2b1	-0.36995	6.976973	-2.63954	0.019949	0.156691	-3.40049
Tprgl	-0.37009	7.851902	-2.2834	0.039249	0.216156	-4.01796
Net1	-0.3704	5.593123	-2.88975	0.012291	0.122369	-2.95133
Slc29a4	-0.37045	4.37646	-3.63942	0.002847	0.062253	-1.57409
Fam43b	-0.37059	4.495044	-3.25351	0.006044	0.088018	-2.28576
Smo	-0.37067	6.251187	-2.50483	0.025825	0.177499	-3.63766
Epb4.1l4a	-0.37068	4.670617	-2.44262	0.029071	0.189011	-3.7458
Fads2	-0.37093	4.927816	-4.71944	0.000366	0.026537	0.37429
Nog	-0.37108	3.836838	-3.79163	0.00212	0.05449	-1.29405
Lrfr2	-0.37232	3.826128	-4.68467	0.00039	0.027042	0.313454
Ntpcr	-0.3725	4.434518	-2.65055	0.019531	0.155006	-3.38094
Gm15736	-0.37258	4.02546	-3.0316	0.009323	0.108813	-2.69305
Ier3	-0.37261	8.866428	-3.26094	0.005957	0.087566	-2.27208
Alpl	-0.37263	6.570845	-2.27996	0.039502	0.21688	-4.02376
Rims4	-0.37278	3.891491	-3.16541	0.007179	0.095407	-2.44781
Rfx1	-0.37298	5.15726	-2.3957	0.031774	0.196662	-3.82674
Pink1	-0.37326	10.35048	-2.15797	0.049551	0.242108	-4.22695
Pycard	-0.37335	4.899751	-2.49283	0.026423	0.179495	-3.65858
Aatk	-0.37355	4.356683	-4.86272	0.000282	0.023971	0.623288
Atp5c1	-0.37385	6.077233	-2.73524	0.016586	0.143273	-3.22987

Stt3b	-0.37438	8.390937	-2.55145	0.023624	0.170478	-3.55602
Syt6	-0.3745	4.137943	-5.35251	0.000117	0.016075	1.452487
E130012A1	-0.37459	4.389038	-3.89729	0.001728	0.049617	-1.10029
Ccdc33	-0.37488	3.596414	-5.05154	0.0002	0.020075	0.947099
Gm9866	-0.37494	3.647247	-5.04892	0.000201	0.020075	0.942642
Gm4971	-0.37498	4.137216	-2.80595	0.014464	0.13377	-3.10281
Tmx1	-0.37505	8.462863	-4.37616	0.000694	0.033048	-0.23284
Kcnh2	-0.37537	6.83217	-2.66143	0.019126	0.153775	-3.36161
Cartpt	-0.37538	3.69073	-5.43902	0.000101	0.015433	1.595211
Dalrd3	-0.37553	6.389384	-3.03935	0.009183	0.108196	-2.67889
Slc35a5	-0.37575	4.78657	-4.09296	0.001187	0.041181	-0.74345
Rnf186	-0.37583	4.27172	-3.05044	0.008987	0.106956	-2.65862
5730409E0	-0.37645	4.705655	-3.03562	0.00925	0.108326	-2.68571
Ttc39b	-0.37695	5.160811	-2.82529	0.013931	0.13171	-3.06794
A230065H:	-0.37759	4.262051	-2.58218	0.022273	0.165337	-3.50194
8430419KC	-0.37777	4.133379	-2.611	0.021075	0.161233	-3.45106
Rexo4	-0.37798	4.801568	-2.94351	0.01107	0.117357	-2.8537
Gm5346	-0.37809	3.532227	-3.29133	0.005613	0.085139	-2.21609
Eif3f	-0.37837	8.478132	-3.6326	0.002885	0.062351	-1.58666
Rd3	-0.37864	4.366994	-4.25708	0.000869	0.036925	-0.44658
Otos	-0.37897	3.954885	-4.66305	0.000406	0.027213	0.275553
Perm1	-0.37904	9.329685	-2.29641	0.038305	0.213079	-3.996
Zfp566	-0.37952	4.301614	-2.52288	0.02495	0.174974	-3.6061
Clcn4-2	-0.37954	7.509125	-4.3695	0.000703	0.033174	-0.24476
Ppbp	-0.37998	3.883007	-2.77484	0.015363	0.138056	-3.15882
Dsg1a	-0.38032	4.121199	-4.01638	0.001375	0.043852	-0.88278
Trappc13	-0.38043	6.281793	-3.43507	0.004239	0.074637	-1.95101
Gsn	-0.38059	11.49883	-3.64958	0.002792	0.061834	-1.55537
Olfr667	-0.38135	3.509684	-3.72129	0.002429	0.057506	-1.42335
Vgll2	-0.38156	3.775774	-4.71372	0.00037	0.026586	0.364289
Gm15341	-0.38171	4.23151	-3.19087	0.006831	0.093296	-2.40101
Zfp783	-0.38197	4.24261	-3.21524	0.006513	0.091193	-2.35621
Zc3h15	-0.38198	4.450611	-2.8384	0.013581	0.129906	-3.04428
D6Ert474c	-0.3822	4.194643	-4.56078	0.000491	0.029103	0.095446
Krtap5-5	-0.38258	3.937049	-3.2431	0.006168	0.088633	-2.30493
Tff2	-0.38269	3.697003	-4.3836	0.000684	0.033	-0.21953
S100g	-0.38281	3.586755	-5.07419	0.000192	0.019641	0.985586
LOC102638	-0.38283	7.773593	-2.95236	0.010881	0.116242	-2.83759
4930556N1	-0.38284	4.092109	-3.04164	0.009142	0.108038	-2.6747
Rps2	-0.38315	5.064772	-2.4939	0.026369	0.179351	-3.65672
BC052040	-0.38328	4.412526	-2.82975	0.013811	0.131296	-3.05989
Slc19a1	-0.38367	4.095925	-3.09533	0.008233	0.102741	-2.57641
Gm38457	-0.38382	3.908023	-4.44895	0.000605	0.031585	-0.10293
Cacnb2	-0.38407	9.224955	-2.66938	0.018835	0.152672	-3.34747
Kcnn4	-0.38429	3.906325	-3.92198	0.001648	0.048299	-1.05512
Hnrnpa0	-0.38455	6.589627	-3.46727	0.003981	0.071977	-1.89158
ldh2	-0.38456	12.29274	-2.74558	0.016258	0.141863	-3.21133
St6galnac1	-0.38478	3.706212	-2.38718	0.03229	0.197762	-3.84137



Samd4	-0.38481	7.449036	-3.39338	0.004599	0.077427	-2.02791
Fam53b	-0.38497	5.447489	-3.47488	0.003922	0.071541	-1.87754
Gm10778	-0.38502	5.008338	-2.93729	0.011205	0.118032	-2.86501
Gm5528	-0.38538	5.817403	-2.20021	0.045827	0.233121	-4.15715
4930480K2	-0.38553	4.316839	-2.60559	0.021295	0.162042	-3.46062
Chst12	-0.38557	4.721441	-2.28715	0.038975	0.21517	-4.01164
Fam170b	-0.38564	4.516815	-4.39573	0.000669	0.033	-0.19786
Rac3	-0.3862	5.744564	-4.10019	0.001171	0.041052	-0.73033
Slnl1	-0.38634	3.862576	-3.53682	0.003476	0.067579	-1.76327
Dnl	-0.38672	5.213542	-2.9473	0.010989	0.116796	-2.84681
Ogt	-0.38677	9.133111	-3.92095	0.001651	0.048299	-1.05699
Fuk	-0.38681	4.76688	-3.8372	0.001941	0.051921	-1.2104
Olml1	-0.38683	4.346788	-4.22884	0.000917	0.037606	-0.49749
LOC102635	-0.387	3.885927	-2.53646	0.024311	0.17274	-3.58232
Nkx6-1	-0.38714	4.622186	-4.22371	0.000926	0.037622	-0.50675
Ppp1r14d	-0.38721	4.370521	-3.33827	0.005121	0.081593	-2.12956
Zbtb6	-0.38741	5.308085	-4.34858	0.000731	0.03367	-0.28221
Tulp1	-0.38796	4.172395	-4.69312	0.000384	0.027042	0.328247
Pou3f3	-0.38846	3.962021	-3.94239	0.001585	0.04735	-1.0178
Cgn	-0.38891	4.76876	-2.61488	0.020918	0.160601	-3.44419
Gm6155	-0.3894	5.185021	-2.21892	0.044263	0.229126	-4.12604
Gm8273	-0.38958	4.639681	-2.41533	0.030615	0.193859	-3.79294
Gm3086	-0.38992	4.354843	-3.00489	0.009822	0.111521	-2.74185
Atp6v1e2	-0.38995	3.889821	-2.81649	0.014171	0.1329	-3.08383
Prps2	-0.39001	4.936178	-3.27899	0.00575	0.086188	-2.23883
Pwwp2a	-0.39017	4.712141	-3.33489	0.005155	0.081722	-2.1358
Tmem167	-0.39022	3.869341	-2.90878	0.011844	0.120438	-2.91681
Gm16049	-0.39036	4.266084	-2.35493	0.034316	0.202875	-3.89656
Serpnb9	-0.39064	5.228183	-2.3954	0.031792	0.196662	-3.82724
Gm10100	-0.39072	3.798862	-4.30225	0.000798	0.034854	-0.36533
Ankrd1	-0.39087	12.70268	-2.57618	0.022531	0.166143	-3.51252
Bcl7b	-0.39094	7.586755	-3.03653	0.009234	0.108326	-2.68405
Dhrs7	-0.39119	6.044966	-3.72341	0.002419	0.057456	-1.41945
Recql	-0.39129	4.983229	-3.57949	0.003199	0.065756	-1.68456
Aire	-0.39142	4.617279	-2.45804	0.028232	0.186301	-3.71908
Rfwd2	-0.39157	9.015154	-2.33922	0.035347	0.205554	-3.92337
Ahnak2	-0.39168	5.669234	-2.23614	0.042868	0.226647	-4.0973
Pik3r6	-0.39206	5.452243	-2.1626	0.049129	0.241041	-4.21933
Olfr282	-0.39259	4.071445	-4.69156	0.000385	0.027042	0.325516
1700028J1	-0.39286	4.619978	-3.45932	0.004043	0.07268	-1.90626
Gm16159	-0.3929	4.104658	-3.18895	0.006856	0.093296	-2.40455
F420014N2	-0.39359	4.522283	-3.15206	0.007369	0.096938	-2.47234
Igkv2-112	-0.3938	3.804157	-2.40912	0.030977	0.194862	-3.80364
Kcnj14	-0.39424	3.953678	-2.7863	0.015025	0.136824	-3.13821
Nxn12	-0.39426	3.896703	-3.63254	0.002886	0.062351	-1.58677
Gm12707	-0.39429	4.252074	-2.27975	0.039518	0.216919	-4.02412
Lrrc51	-0.39454	5.237135	-2.17002	0.048461	0.2397	-4.2071
Nt5c1a	-0.39469	6.661055	-2.85185	0.013231	0.127934	-3.01997

1110004E0	-0.39502	5.103271	-3.71434	0.002462	0.057893	-1.43614
Ankrd33b	-0.39522	5.755351	-2.47615	0.027276	0.182517	-3.68763
Gm16537	-0.39531	4.717219	-4.50805	0.000542	0.030405	0.002089
Izumo1r	-0.39582	4.042163	-4.129	0.001108	0.039942	-0.67805
Grb2	-0.39591	6.257938	-2.66202	0.019104	0.15365	-3.36056
Psmc9	-0.396	5.329508	-4.47658	0.000575	0.031266	-0.05378
3110009F2	-0.39607	3.67729	-3.70781	0.002493	0.058217	-1.44815
Irx5	-0.39622	5.443329	-2.38549	0.032393	0.197862	-3.84427
Mecom	-0.39629	5.303972	-4.11457	0.001139	0.040407	-0.70422
Tm4sf5	-0.39636	3.926497	-4.16604	0.001033	0.039457	-0.61095
Gm32125	-0.39648	3.708254	-2.36974	0.033371	0.200485	-3.87126
Kcnq3	-0.39657	3.6606	-5.21925	0.000148	0.017742	1.230391
Pacsin3	-0.39671	5.594289	-2.85961	0.013033	0.126808	-3.00593
Tnfrsf25	-0.39671	4.566945	-3.40361	0.004508	0.07686	-2.00904
LOC675947	-0.39708	3.745712	-4.43243	0.000624	0.0322	-0.13237
Foxf1	-0.39774	4.510927	-3.17922	0.006988	0.09438	-2.42244
Scrt2	-0.39797	3.966215	-4.96044	0.000236	0.022031	0.791485
Mir346	-0.39821	4.222119	-2.22131	0.044068	0.228826	-4.12207
Trim55	-0.3984	7.850281	-2.16636	0.04879	0.240187	-4.21314
Col26a1	-0.39867	4.466517	-3.83878	0.001935	0.051921	-1.20751
Jmjd6	-0.39886	6.375441	-2.65303	0.019438	0.154832	-3.37654
Rps6kb1	-0.39899	6.170783	-2.77707	0.015296	0.137678	-3.1548
Ntsr2	-0.39918	6.358676	-3.29494	0.005574	0.084885	-2.20944
Cd82	-0.39956	5.130788	-3.20344	0.006665	0.092328	-2.37791
Ppp1r14a	-0.39972	5.000824	-2.4389	0.029277	0.189688	-3.75225
Gm3636	-0.39989	3.868091	-4.60214	0.000455	0.028131	0.168449
Fnip2	-0.39994	6.391825	-2.39654	0.031724	0.196573	-3.82529
Asph	-0.4003	7.704149	-3.01289	0.00967	0.110879	-2.72723
Ydjc	-0.4003	4.099002	-3.61848	0.002965	0.062847	-1.61267
Gm2102	-0.40037	4.800791	-2.64782	0.019634	0.155454	-3.38579
Fem1a	-0.4011	5.967746	-2.64556	0.01972	0.155826	-3.38981
Gm3878	-0.40199	4.836928	-2.3998	0.031528	0.196396	-3.81968
Emc8	-0.40202	6.467936	-3.61262	0.002999	0.063192	-1.62349
Surf2	-0.40222	7.55426	-3.93773	0.001599	0.04755	-1.02632
Msrb3	-0.4024	9.307265	-2.61312	0.020989	0.160945	-3.4473
Phactr3	-0.40257	4.327686	-3.16532	0.00718	0.095407	-2.44798
Wbp4	-0.40275	5.882935	-2.92089	0.011568	0.11988	-2.89482
Prkcz	-0.40311	4.080836	-3.00792	0.009764	0.11113	-2.73631
Ighv9-4	-0.40355	4.622282	-2.37516	0.033031	0.199443	-3.86197
Cldn1	-0.40366	3.696203	-4.99314	0.000222	0.021397	0.847484
Gpatch2l	-0.40391	4.998566	-3.31627	0.005346	0.083341	-2.17014
Xirp2	-0.40428	10.33269	-4.38275	0.000685	0.033	-0.22105
Peg12	-0.40443	4.596451	-2.25914	0.041069	0.22123	-4.05878
Lrrc10	-0.40465	9.768053	-4.02701	0.001347	0.043604	-0.86339
A430108G	-0.40466	4.113264	-4.33097	0.000756	0.034093	-0.31378
E130018N1	-0.40479	4.04598	-3.32723	0.005233	0.082544	-2.14992
Mir3110	-0.40502	5.327111	-2.84536	0.013399	0.128904	-3.03169
Tcte2	-0.40503	4.741169	-3.63166	0.00289	0.062376	-1.58839

Olf1122	-0.4053	3.675361	-4.11118	0.001147	0.040554	-0.71038
Sorbs2	-0.40533	9.801242	-2.87642	0.012614	0.124572	-2.97549
Cactin	-0.40533	5.049611	-3.65439	0.002766	0.061599	-1.54652
Fbxo30	-0.40539	6.573836	-5.25191	0.00014	0.017535	1.285065
Trp53bp2	-0.40578	6.514069	-3.65895	0.002741	0.061504	-1.53812
Rab11fip4c	-0.40591	3.861091	-3.53028	0.003521	0.067905	-1.77532
Cnn3	-0.40643	7.99568	-2.89983	0.012053	0.121279	-2.93306
Olf1298	-0.40662	3.700011	-3.06155	0.008794	0.106175	-2.63829
Ero1l	-0.40665	7.068322	-3.59456	0.003107	0.064522	-1.65678
Gm12596	-0.40669	3.878523	-4.15103	0.001063	0.039677	-0.63812
Mxi1	-0.40672	7.346934	-4.07991	0.001217	0.041571	-0.76715
Stard6	-0.40682	3.513304	-2.85332	0.013193	0.12771	-3.0173
Ucn	-0.4069	4.580894	-5.15634	0.000166	0.018582	1.124607
Al606473	-0.4069	3.781248	-4.38129	0.000687	0.033	-0.22367
Foxn4	-0.4071	4.081606	-4.50169	0.000548	0.030412	-0.00919
1110017D1	-0.40735	4.05121	-4.09136	0.001191	0.041181	-0.74636
Klhdc4	-0.40771	4.661869	-2.95248	0.010878	0.116242	-2.83738
Serpinf1	-0.40799	7.777452	-2.4852	0.02681	0.181067	-3.67188
2610021AC	-0.4082	5.461429	-2.26946	0.040286	0.219147	-4.04145
Zfp382	-0.40821	4.15006	-3.4509	0.00411	0.073301	-1.9218
Chrna4	-0.40875	3.984914	-3.12836	0.007718	0.098798	-2.51585
Eef2kmt	-0.4088	6.723334	-2.32258	0.036469	0.208563	-3.95165
Ccdc117	-0.40883	6.59002	-2.31019	0.037328	0.21095	-3.97268
Hs3st3b1	-0.40922	4.453595	-2.92052	0.011577	0.11989	-2.8955
Ftsj2	-0.40923	5.205051	-2.77938	0.015228	0.137661	-3.15064
Rasl11b	-0.40939	7.341203	-3.2764	0.005779	0.086342	-2.2436
Zfp94	-0.40959	4.167274	-3.27853	0.005755	0.086188	-2.23968
Peli3	-0.40987	4.361472	-3.72223	0.002424	0.057456	-1.42162
C3ar1	-0.41022	4.798469	-2.86525	0.012891	0.125999	-2.99572
Syng1	-0.41062	4.506276	-2.51789	0.025189	0.175556	-3.61484
Cav3	-0.41066	6.56778	-2.20236	0.045645	0.232482	-4.15359
Stoml1	-0.41073	4.326213	-4.49999	0.00055	0.030412	-0.01221
Gdap1l1	-0.41138	4.144407	-3.89398	0.001739	0.049762	-1.10636
Al646519	-0.41178	4.606771	-4.05325	0.001281	0.042624	-0.81563
Ccdc149	-0.41184	4.854626	-2.8931	0.012211	0.121966	-2.94527
Spesp1	-0.41239	4.894392	-3.54871	0.003397	0.066966	-1.74134
Serp1nb6a	-0.4127	5.432322	-2.70526	0.017575	0.147342	-3.28348
Gm13530	-0.41271	4.017276	-5.5575	8.18E-05	0.014851	1.788819
Gnb2l1	-0.41299	9.525275	-2.29237	0.038595	0.214075	-4.00282
Fgfbp3	-0.41393	5.104068	-2.68601	0.018241	0.150104	-3.31783
Nenf	-0.41425	7.225328	-3.49228	0.003792	0.07031	-1.84544
Fgf13	-0.41446	6.726851	-2.78823	0.014969	0.136413	-3.13473
Gm4553	-0.41451	3.774107	-2.82899	0.013831	0.131439	-3.06126
Fst	-0.41453	4.019297	-3.31164	0.005395	0.08365	-2.17866
Fam25c	-0.41454	4.567471	-2.56308	0.023104	0.168419	-3.53558
Lyz1	-0.41456	3.733961	-3.8528	0.001883	0.051557	-1.1818
Mthfsd	-0.41476	5.104306	-2.83401	0.013697	0.130565	-3.05221
Pn1sr	-0.41479	7.79716	-2.28582	0.039071	0.21556	-4.01387

Gm26644	-0.41496	5.115924	-2.2026	0.045625	0.232427	-4.1532
Lrrc4b	-0.41505	5.464837	-3.15518	0.007324	0.096594	-2.46661
Rpl23	-0.41511	4.57353	-3.30029	0.005516	0.08433	-2.19958
Mtfp1	-0.4152	7.989665	-2.21788	0.044349	0.229137	-4.12777
Dusp3	-0.41524	7.145084	-3.24221	0.006179	0.088736	-2.30656
Parm1	-0.41543	9.712206	-3.49232	0.003791	0.07031	-1.84536
Cela2a	-0.41593	4.650597	-4.77499	0.000331	0.025389	0.471143
H2afy	-0.41631	7.497087	-2.75269	0.016036	0.140682	-3.19859
Ahctf1	-0.41691	6.725464	-3.24005	0.006205	0.088888	-2.31054
Mypopos	-0.41692	4.513709	-2.66614	0.018953	0.153364	-3.35323
A230103J1	-0.41693	3.984082	-2.78895	0.014948	0.136388	-3.13344
Ighv1-53	-0.41693	3.93281	-3.39602	0.004575	0.077423	-2.02305
Serp1	-0.41697	6.105971	-2.70196	0.017688	0.147742	-3.28938
Gast	-0.41726	5.489936	-2.75444	0.015982	0.140608	-3.19545
Cln1	-0.41845	4.204347	-3.60154	0.003065	0.064027	-1.64391
Srxn1	-0.41863	5.961422	-2.53467	0.024394	0.17274	-3.58545
Traj5	-0.41942	3.680673	-3.37115	0.004803	0.079016	-2.06892
Cenpa	-0.41994	5.916334	-2.90005	0.012047	0.121279	-2.93266
Usf2	-0.42002	5.946242	-2.91093	0.011795	0.120438	-2.91291
Kitl	-0.4204	7.668379	-3.27453	0.0058	0.086535	-2.24704
Fxyd6	-0.42063	7.180308	-3.0905	0.008311	0.103197	-2.58526
Col5a1	-0.42097	5.446743	-2.9031	0.011976	0.121077	-2.92713
Traj55	-0.42107	4.191969	-3.26497	0.00591	0.087244	-2.26466
Upk3b	-0.42108	4.198637	-3.61988	0.002957	0.062839	-1.6101
Nqo1	-0.42129	8.587206	-3.07492	0.008567	0.104714	-2.61381
Speer4a	-0.42131	3.749959	-4.13213	0.001102	0.03993	-0.67237
Ror2	-0.42156	4.757317	-2.62368	0.020567	0.159184	-3.4286
Zic5	-0.4217	4.275803	-3.25724	0.006	0.087839	-2.27889
Wfdc12	-0.42172	3.634113	-5.23478	0.000144	0.017592	1.256409
Tube1	-0.42186	4.056159	-3.16935	0.007124	0.09532	-2.44057
Slc35a4	-0.42205	4.194248	-2.4882	0.026657	0.18047	-3.66665
Atf4	-0.42225	6.901506	-4.29176	0.000814	0.035366	-0.38419
Hk1	-0.42225	8.216281	-3.75565	0.002272	0.056155	-1.36017
Spry2	-0.42244	5.382368	-2.89049	0.012274	0.122292	-2.95
Tff3	-0.42264	4.086366	-2.39811	0.03163	0.196427	-3.82259
Lcn5	-0.42301	3.982666	-6.08823	3.33E-05	0.011546	2.628725
Paqr9	-0.42308	6.283742	-2.7271	0.016849	0.144428	-3.24443
Gm19412	-0.42338	4.597393	-3.9879	0.001452	0.045198	-0.93469
Tspan18	-0.42367	7.080648	-3.24641	0.006128	0.088386	-2.29882
Myom2	-0.42387	11.12628	-3.4858	0.00384	0.070709	-1.85739
Sergef	-0.42404	4.163144	-4.6997	0.00038	0.027042	0.339779
Scgb1b12	-0.42421	4.380507	-2.93908	0.011166	0.117771	-2.86176
Mme	-0.42442	5.700877	-2.28542	0.039101	0.215627	-4.01455
Rgs3	-0.42461	6.060808	-4.74753	0.000348	0.025802	0.423326
Cyth2	-0.42463	7.367764	-2.22284	0.043942	0.228486	-4.11951
Tmed10	-0.4249	9.304803	-2.31135	0.037247	0.210682	-3.97071
Scarna3a	-0.42494	4.774835	-2.5253	0.024835	0.174633	-3.60186
Foxa2	-0.42519	4.402476	-4.04453	0.001303	0.042778	-0.83149

Map3k8	-0.42593	4.966234	-2.91536	0.011694	0.120141	-2.90486
Tubb2b	-0.42595	3.791662	-4.27515	0.00084	0.036053	-0.41405
Zfp710	-0.4262	5.061639	-2.99849	0.009945	0.112243	-2.75352
Sox14	-0.42627	4.375409	-3.85045	0.001892	0.051557	-1.18611
943003810	-0.42633	5.746307	-2.32187	0.036518	0.208698	-3.95286
Acat2	-0.42646	4.965481	-2.94261	0.011089	0.117494	-2.85533
Fndc1	-0.4265	4.864061	-3.08663	0.008374	0.103565	-2.59235
Kcnmb1	-0.42695	5.122789	-5.19014	0.000156	0.01804	1.181516
Efna1	-0.42743	6.679677	-2.95622	0.010799	0.115914	-2.83058
Uhrf1	-0.42755	4.365651	-4.22088	0.000931	0.037622	-0.51185
Krt81	-0.42777	4.343408	-3.94647	0.001572	0.04715	-1.01034
Tbc1d10b	-0.42795	4.207087	-2.76792	0.01557	0.138715	-3.17125
Tomm34	-0.42823	6.551022	-2.44435	0.028976	0.188767	-3.74281
Gm6557	-0.42824	5.57722	-2.17566	0.047959	0.238399	-4.1978
Bloc1s5	-0.42858	5.20205	-4.31031	0.000786	0.034664	-0.35086
Acta2	-0.42891	9.52773	-2.39145	0.032031	0.197148	-3.83404
Slc25a33	-0.42952	6.206139	-3.31826	0.005325	0.08316	-2.16647
Pstk	-0.42952	6.734294	-2.59053	0.02192	0.163948	-3.48722
Rimklb	-0.42955	3.579498	-4.50695	0.000543	0.030405	0.000141
Oprd1	-0.42995	4.09427	-5.95486	4.16E-05	0.01211	2.421908
Ttc17	-0.4303	7.763041	-4.13847	0.001089	0.039857	-0.66089
Slc12a7	-0.43059	8.015825	-2.22752	0.043562	0.227889	-4.11171
Gng12	-0.43117	7.198639	-3.82193	0.001999	0.052809	-1.23842
Suz12	-0.4312	5.54498	-2.83737	0.013608	0.130077	-3.04614
Olfr1193	-0.43173	3.852819	-3.8294	0.00197	0.05233	-1.22471
Coa5	-0.43204	7.36829	-3.27352	0.005812	0.086535	-2.2489
1110038B1	-0.43224	6.46894	-3.5254	0.003555	0.068153	-1.78433
Adm	-0.43288	4.819529	-3.40069	0.004533	0.077193	-2.01443
LOC102639	-0.43333	4.530567	-4.3684	0.000704	0.033174	-0.24672
Reep1	-0.43336	5.084103	-3.36005	0.004908	0.079745	-2.0894
C530044C1	-0.43366	3.826384	-4.01253	0.001385	0.044029	-0.88978
Prss54	-0.43381	4.281467	-3.5467	0.00341	0.067035	-1.74504
Dusp10	-0.4339	5.253591	-2.80128	0.014595	0.134435	-3.11124
Pid1	-0.43394	5.612132	-2.83418	0.013693	0.130565	-3.0519
AW549542	-0.43435	4.859975	-3.56891	0.003266	0.066221	-1.70408
Cetn4	-0.4344	4.423426	-3.07843	0.008509	0.104434	-2.60738
Btbd18	-0.43494	4.484843	-3.796	0.002102	0.054401	-1.28602
Nccrp1	-0.43506	4.388263	-4.1837	0.000999	0.038881	-0.57901
Ighv1-15	-0.43557	3.744943	-5.94356	4.24E-05	0.01211	2.404255
Rnf6	-0.43563	5.348267	-3.07867	0.008505	0.104434	-2.60693
Zbtb18	-0.43606	4.994537	-2.71163	0.017361	0.146649	-3.27211
Crybb3	-0.43642	5.240285	-3.41306	0.004425	0.076357	-1.99162
Mir383	-0.43699	3.681327	-5.45347	9.81E-05	0.015433	1.618943
Pdzd2	-0.43746	8.141296	-4.82654	0.000301	0.024679	0.560671
Nkain4	-0.43767	4.261795	-2.68176	0.018391	0.150643	-3.32542
Samd9l	-0.43786	4.515606	-3.18928	0.006852	0.093296	-2.40394
Gp9	-0.4379	4.612595	-3.75448	0.002278	0.056226	-1.36231
Zfp362	-0.43801	6.573476	-4.42943	0.000628	0.032315	-0.13771

Dyrk1a	-0.43852	8.920715	-2.21837	0.044309	0.229126	-4.12696
1110002LO	-0.43881	5.011553	-2.6045	0.021339	0.162083	-3.46254
Gm9899	-0.43939	5.766147	-2.78594	0.015036	0.136869	-3.13885
Olf411	-0.43942	4.036636	-3.21895	0.006466	0.090868	-2.34938
Klk13	-0.43973	3.653749	-4.67385	0.000398	0.027132	0.294487
Alpl2	-0.43985	3.65996	-4.65993	0.000409	0.027213	0.270083
Flcn	-0.43991	7.437269	-3.97858	0.001478	0.045559	-0.9517
Spata31d1	-0.4402	4.18664	-5.39664	0.000108	0.015832	1.525431
Zfp395	-0.44039	5.391296	-2.66382	0.019038	0.153614	-3.35735
4930453N2	-0.44058	5.607185	-2.45675	0.028301	0.186525	-3.72133
Mreg	-0.4406	6.520423	-2.7314	0.01671	0.143739	-3.23674
Nrg2	-0.44102	4.548698	-5.16853	0.000162	0.01849	1.145154
Rtn4	-0.4412	5.410099	-3.7132	0.002467	0.057893	-1.43823
Hivep2	-0.44143	5.659492	-4.51735	0.000533	0.030368	0.018587
Med19	-0.44145	6.05385	-3.62567	0.002924	0.062617	-1.59943
Gm15569	-0.44195	4.451224	-3.26806	0.005874	0.087081	-2.25897
Paqr7	-0.44236	5.581553	-2.20492	0.045429	0.231794	-4.14934
Cebpzos	-0.44263	6.22465	-2.52787	0.024713	0.174094	-3.59736
Timm22	-0.44291	4.37539	-4.22263	0.000928	0.037622	-0.50868
Canx	-0.44294	10.94878	-5.39355	0.000109	0.015832	1.520341
Gm4604	-0.44337	4.519852	-5.90425	4.53E-05	0.012162	2.342677
Ralgps1	-0.44423	5.493544	-4.21915	0.000934	0.037622	-0.51497
Knop1	-0.44498	4.89144	-3.46352	0.00401	0.072198	-1.8985
1700095B1	-0.445	6.422194	-3.43111	0.004272	0.07495	-1.95831
Lrp8os2	-0.44515	4.048747	-4.21926	0.000934	0.037622	-0.51477
Blzf1	-0.44524	5.207228	-2.49999	0.026064	0.178551	-3.6461
2810006K2	-0.44551	4.704815	-2.51172	0.025488	0.176497	-3.62562
2310026I2	-0.44604	3.751587	-5.83667	5.07E-05	0.012368	2.236228
1500015O	-0.44616	3.520817	-3.91112	0.001683	0.04882	-1.07498
Syt11	-0.44623	6.3345	-2.20269	0.045617	0.232427	-4.15304
LOC10264	-0.44632	7.365058	-4.62303	0.000438	0.027669	0.205228
Ncam1	-0.44636	5.735965	-2.28587	0.039068	0.21556	-4.0138
Fam101a	-0.44675	4.249607	-2.81217	0.01429	0.133251	-3.09161
lvns1abp	-0.44678	11.7675	-4.90472	0.000261	0.023269	0.695747
Gm8692	-0.44741	4.64397	-3.84262	0.001921	0.051918	-1.20047
Creb3l3	-0.44743	4.611733	-5.48922	9.21E-05	0.015238	1.677512
lpo7	-0.44778	8.757555	-2.73813	0.016494	0.142794	-3.22468
Mir194-2	-0.44842	4.235753	-2.89908	0.01207	0.121336	-2.93442
Ptprj	-0.44865	6.091431	-2.31224	0.037184	0.21051	-3.9692
Gm11529	-0.44878	3.63816	-5.27712	0.000134	0.017404	1.327159
Rpa3	-0.44918	4.980974	-2.76263	0.01573	0.139362	-3.18074
Pcdhgc3	-0.44943	4.624571	-3.41152	0.004439	0.076357	-1.99445
Il10rb	-0.44972	9.76277	-3.46882	0.003969	0.071865	-1.88873
Snap47	-0.4505	7.576019	-2.81557	0.014196	0.132975	-3.08547
Ptprm	-0.45059	9.004198	-2.99506	0.010012	0.112245	-2.75979
Nsun2	-0.45062	7.516066	-2.24581	0.042103	0.224033	-4.08113
Cthrc1	-0.45138	4.236711	-4.56751	0.000485	0.029057	0.107348
lqck	-0.45144	3.848663	-4.33808	0.000746	0.033946	-0.30103

Rabif	-0.45159	6.950799	-2.76663	0.015609	0.138772	-3.17356
Fsbp	-0.4518	4.47462	-2.80915	0.014374	0.133685	-3.09705
Gpr183	-0.45211	4.169939	-4.65479	0.000413	0.027213	0.261044
Galnt2	-0.45266	6.698636	-2.43094	0.029722	0.191325	-3.766
E1300180C	-0.45292	4.520937	-3.5543	0.00336	0.066677	-1.73103
Mir3091	-0.45346	5.458327	-3.77723	0.002179	0.054728	-1.3205
1700001CC	-0.45368	3.934943	-4.65274	0.000414	0.027213	0.257446
Ube2q2	-0.45372	6.047716	-2.24099	0.042483	0.22534	-4.08919
Mif4gd	-0.45393	5.299079	-3.24037	0.006201	0.088888	-2.30994
Zfp39	-0.45393	5.265059	-3.87539	0.001803	0.05036	-1.1404
Mvd	-0.45435	4.791216	-2.96393	0.010638	0.114935	-2.81653
Trp53i13	-0.45492	4.882239	-3.72268	0.002422	0.057456	-1.42079
Ggn	-0.45506	4.507331	-3.73142	0.002382	0.057429	-1.40472
Rapgef6	-0.4553	5.387912	-5.66356	6.82E-05	0.01436	1.960249
Rai1	-0.45544	5.512838	-3.09173	0.008291	0.103104	-2.58301
Smarca5	-0.45574	7.869948	-2.33481	0.035641	0.206402	-3.93088
Mansc1	-0.45622	4.735267	-3.31448	0.005365	0.08353	-2.17343
Gm6583	-0.45637	3.811447	-4.98051	0.000227	0.021561	0.825867
Srsf4	-0.45759	7.44617	-2.90155	0.012012	0.121193	-2.92993
Rab43	-0.45766	4.535005	-4.12243	0.001122	0.040206	-0.68997
Col2a1	-0.4579	4.421931	-3.08175	0.008454	0.104078	-2.60129
Zbtb7a	-0.45803	5.520986	-3.64285	0.002828	0.062222	-1.56777
Slc35c2	-0.45813	5.52891	-2.91307	0.011746	0.120438	-2.90902
Prkd3	-0.4589	5.988488	-2.6445	0.01976	0.156003	-3.39169
Galr1	-0.459	4.052236	-6.37704	2.08E-05	0.010083	3.066777
Slco5a1	-0.46011	5.043545	-3.41736	0.004388	0.076026	-1.98367
Gm11810	-0.46136	5.122508	-2.69715	0.017853	0.148337	-3.29797
Slc38a7	-0.46166	5.536258	-4.53129	0.000519	0.029956	0.043283
Atat1	-0.4617	4.618273	-3.0872	0.008364	0.103502	-2.59131
Arl5a	-0.46193	7.806146	-2.63797	0.02001	0.156933	-3.40329
Foxi1	-0.46203	4.539332	-3.2574	0.005998	0.087839	-2.2786
Irf2bpl	-0.46319	6.030287	-2.9685	0.010544	0.114616	-2.8082
Efcc1	-0.46332	4.257436	-5.53152	8.56E-05	0.014927	1.746546
Krtap9-1	-0.4635	5.683451	-2.17556	0.047968	0.238399	-4.19796
Rbfox3	-0.46447	4.204127	-3.98964	0.001447	0.045196	-0.93152
2310067E1	-0.46467	5.669356	-2.5753	0.022569	0.166143	-3.51406
Agfg2	-0.46476	6.049198	-2.95897	0.010742	0.115604	-2.82556
Syng3	-0.46477	4.438187	-4.86787	0.000279	0.023828	0.632187
1700120C1	-0.4648	6.891785	-2.28102	0.039424	0.216688	-4.02197
Gm15767	-0.46507	4.046438	-4.53528	0.000515	0.029955	0.05035
Tubg1	-0.46562	7.161072	-2.67067	0.018788	0.152621	-3.34517
Usp6nl	-0.46623	5.280555	-2.86399	0.012922	0.126079	-2.998
Pdcl3	-0.46635	7.755107	-2.99626	0.009989	0.112245	-2.75759
Hus1	-0.46654	5.793098	-2.24331	0.0423	0.224735	-4.08532
Smarcd1	-0.46718	6.130018	-2.45001	0.028666	0.187487	-3.73301
Mir667	-0.46788	4.180776	-4.22266	0.000928	0.037622	-0.50864
Gdpd1	-0.46809	5.785489	-4.53198	0.000518	0.029956	0.044508
Tnnt3	-0.46814	4.062315	-5.24679	0.000141	0.017535	1.276508

Aqp5	-0.46828	4.825595	-2.78304	0.01512	0.137287	-3.14406
Dapk1	-0.46838	7.94322	-2.73731	0.01652	0.142947	-3.22615
Crb3	-0.4693	4.221731	-5.45555	9.77E-05	0.015433	1.622359
Scgb1b20	-0.4694	3.851239	-4.72433	0.000363	0.026433	0.382823
Flrt1	-0.46989	3.845379	-4.683	0.000392	0.027042	0.310534
Mmp15	-0.46994	6.926002	-2.90246	0.011991	0.121077	-2.92828
Tbcb	-0.46996	6.826219	-3.36432	0.004867	0.079559	-2.08153
Gm5409	-0.47007	4.370433	-2.43673	0.029398	0.189988	-3.75599
Rps28	-0.47015	4.027296	-4.63335	0.000429	0.027437	0.22339
Trbj2-1	-0.47043	7.117489	-2.62049	0.020694	0.159767	-3.43426
Sla2	-0.47054	4.206626	-4.04791	0.001294	0.042778	-0.82535
Hrct1	-0.47068	6.51336	-2.62376	0.020564	0.159184	-3.42847
Gm3837	-0.47071	8.422197	-3.84638	0.001907	0.051748	-1.19357
Zfp9	-0.47158	5.122281	-6.1234	3.14E-05	0.011485	2.682792
Dleu2	-0.47279	5.972266	-2.91067	0.011801	0.120438	-2.91338
Rcvrn	-0.47313	4.134201	-5.16345	0.000164	0.01849	1.136583
Zfp651	-0.47318	6.942122	-4.39792	0.000666	0.032994	-0.19394
Atf5	-0.47337	5.926402	-5.1325	0.000173	0.019044	1.084362
Aldh3b2	-0.47366	4.767888	-4.19253	0.000982	0.038572	-0.56304
Mirg	-0.47372	3.94136	-6.75501	1.14E-05	0.008528	3.619792
Pcbp4	-0.4738	7.596758	-2.87609	0.012622	0.124572	-2.97609
Vmn1r170	-0.47416	4.395571	-2.70461	0.017598	0.147342	-3.28465
Bhmt	-0.47453	5.849325	-2.84704	0.013355	0.128731	-3.02866
Dok3	-0.47467	4.242484	-5.86917	4.80E-05	0.012162	2.287506
Slc1a5	-0.47566	6.408817	-3.81457	0.002028	0.053283	-1.25193
Gm11964	-0.47569	6.348582	-3.48755	0.003827	0.070677	-1.85416
Corin	-0.4767	10.39088	-2.1607	0.049302	0.241398	-4.22246
Ubc	-0.47697	6.982381	-2.9683	0.010548	0.114616	-2.80856
Map1s	-0.47703	6.075938	-3.61404	0.002991	0.063125	-1.62086
1700066O	-0.4775	3.8126	-3.88708	0.001763	0.050025	-1.11899
Rreb1	-0.47759	7.969215	-4.25918	0.000865	0.036842	-0.4428
Foxc1	-0.47796	4.998488	-3.56749	0.003275	0.066237	-1.70669
Gdpgp1	-0.47845	5.195021	-2.32342	0.036412	0.208474	-3.95023
Tmem184k	-0.47854	7.809397	-2.76828	0.015559	0.138715	-3.1706
Zfp329	-0.47938	5.83648	-2.3525	0.034473	0.203345	-3.90072
Zfp866	-0.47984	5.173004	-2.34777	0.034782	0.204221	-3.90878
Eif4e	-0.47996	4.917572	-3.98318	0.001465	0.045319	-0.94332
Gm16793	-0.48022	5.297652	-3.46575	0.003993	0.072035	-1.8944
S1pr5	-0.48039	4.068236	-3.72372	0.002417	0.057456	-1.41888
Fmo2	-0.4804	9.170932	-2.86772	0.012829	0.12571	-2.99124
Vit	-0.48058	4.474552	-3.23805	0.006229	0.089049	-2.31423
Hn1	-0.48084	8.314918	-3.09724	0.008202	0.102564	-2.57291
Ptch1	-0.48145	5.793942	-3.183	0.006937	0.094011	-2.41548
H19	-0.48153	4.448849	-4.01778	0.001371	0.043852	-0.88022
5033406O	-0.48157	4.504822	-4.23353	0.000909	0.037521	-0.48902
Wbscr28	-0.48164	4.081445	-4.14381	0.001078	0.039687	-0.65121
Ms4a4d	-0.48195	6.282298	-2.66275	0.019077	0.153648	-3.35926
Slc35e4	-0.4825	4.829227	-3.14056	0.007536	0.097851	-2.49346



Irx2	-0.48288	5.822201	-4.26733	0.000852	0.03634	-0.42813
Ctgf	-0.48334	7.730662	-2.6627	0.019079	0.153648	-3.35935
1700007PC	-0.48374	5.149245	-2.6977	0.017834	0.148327	-3.29698
Pigm	-0.48402	4.696306	-2.988	0.010151	0.112746	-2.77266
Dmrta2	-0.48467	4.328467	-4.12729	0.001112	0.039951	-0.68115
Gucy1b3	-0.48658	6.616899	-3.09745	0.008199	0.102564	-2.57253
Pim1	-0.48669	6.572571	-3.42185	0.00435	0.075672	-1.9754
Diras1	-0.48719	4.36057	-4.23257	0.00091	0.037527	-0.49076
Akr1e1	-0.48756	5.053257	-2.32617	0.036224	0.207782	-3.94555
Csnk1e	-0.48763	7.325684	-2.52232	0.024977	0.174974	-3.60708
Gdf10	-0.48764	5.019853	-4.1513	0.001062	0.039677	-0.63764
Ighv1-23	-0.48799	4.412255	-2.90523	0.011926	0.120869	-2.92325
Eri1	-0.48804	5.12203	-4.36482	0.000709	0.033189	-0.25313
Tmed1	-0.48826	5.722178	-5.19383	0.000155	0.01804	1.187716
Pim3	-0.48858	7.908379	-3.57917	0.003201	0.065756	-1.68516
Nrn1l	-0.48861	4.046546	-4.40111	0.000662	0.032994	-0.18826
Tfap4	-0.48921	4.349469	-3.9982	0.001424	0.044628	-0.9159
Hn1l	-0.48933	5.505337	-4.33202	0.000754	0.034093	-0.3119
Mettl10	-0.4898	4.596569	-3.22611	0.006376	0.090372	-2.3362
Chchd2	-0.48996	3.995092	-4.94415	0.000243	0.022522	0.763547
Dtna	-0.49007	5.461833	-4.35577	0.000721	0.033465	-0.26934
Zar1	-0.49014	4.068409	-3.44555	0.004153	0.073862	-1.93166
1500017E2	-0.49017	7.276564	-3.41734	0.004388	0.076026	-1.98371
Rcn2	-0.49034	6.175893	-2.25859	0.041111	0.221398	-4.0597
Snx32	-0.49055	5.176927	-5.98431	3.96E-05	0.01211	2.467814
Hpgd	-0.49061	5.555315	-2.73897	0.016467	0.142737	-3.22318
Tmc7	-0.49063	5.620894	-3.38708	0.004656	0.077937	-2.03954
E030046B0	-0.49094	4.312797	-3.91516	0.00167	0.048555	-1.0676
BC048507	-0.49129	3.810262	-3.64383	0.002823	0.062162	-1.56597
Ddit3	-0.49133	5.377058	-3.78561	0.002144	0.054522	-1.30511
Mphosph6	-0.49145	4.661663	-3.67535	0.002655	0.060449	-1.50791
Tmem121	-0.49174	4.616923	-3.8368	0.001942	0.051921	-1.21115
Cux2	-0.49193	4.566698	-4.01717	0.001373	0.043852	-0.88134
Krtap4-9	-0.49195	4.269648	-4.50791	0.000542	0.030405	0.001836
Lgr4	-0.49213	7.285187	-3.45132	0.004107	0.073296	-1.92102
Cdc5l	-0.49301	4.933183	-2.29422	0.038462	0.213668	-3.99969
Syndig1	-0.49348	4.236006	-6.49404	1.72E-05	0.00969	3.240409
Trgj4	-0.49401	3.529036	-4.21772	0.000936	0.037622	-0.51755
Uts2r	-0.49415	4.385735	-4.3459	0.000735	0.033696	-0.28702
Bpgm	-0.49433	6.166897	-3.63952	0.002847	0.062253	-1.57391
Tmem246	-0.49442	6.063338	-3.34775	0.005027	0.080753	-2.11209
Pik3ip1	-0.49468	6.931536	-2.42371	0.030133	0.19235	-3.77849
Rell1	-0.49498	5.771227	-3.47573	0.003916	0.071476	-1.87598
Setd1b	-0.495	5.346578	-3.89152	0.001748	0.049941	-1.11085
Mtmr2	-0.49572	7.028995	-2.80541	0.014479	0.13377	-3.1038
Pdia3	-0.49588	8.862735	-3.52377	0.003566	0.068153	-1.78735
Tdp2	-0.49602	4.835163	-3.3883	0.004644	0.077851	-2.0373
Igkv19-93	-0.49616	4.117481	-2.41839	0.030438	0.193269	-3.78766

Slc1a6	-0.49661	3.988188	-4.39891	0.000665	0.032994	-0.19217
Gm10144	-0.49668	4.418654	-4.59806	0.000458	0.028131	0.161258
Phyhip	-0.49719	5.675886	-3.2246	0.006395	0.090529	-2.33899
Cnksr3	-0.49921	6.748928	-3.06283	0.008772	0.106039	-2.63594
Uggt1	-0.49947	5.975362	-4.25485	0.000873	0.036956	-0.4506
Slc18b1	-0.49975	5.217248	-2.96517	0.010613	0.114809	-2.81428
Snrpb	-0.50001	6.733721	-3.55038	0.003386	0.066958	-1.73824
Olfr761	-0.50037	3.7844	-4.44605	0.000609	0.031585	-0.1081
Mir15a	-0.50071	5.817193	-2.61419	0.020946	0.160665	-3.44541
Tspan9	-0.5011	5.321065	-2.72602	0.016884	0.144492	-3.24637
Mir92b	-0.50111	5.110938	-2.66108	0.019139	0.153812	-3.36224
Ankra2	-0.50118	4.277568	-3.29026	0.005625	0.085212	-2.21806
1700071KC	-0.50174	4.507106	-3.70023	0.00253	0.058746	-1.4621
Chtop	-0.50186	6.761766	-2.30834	0.037458	0.211396	-3.97582
Mrpl23	-0.50241	3.711603	-2.96352	0.010647	0.114979	-2.81728
Gm2848	-0.50277	4.358151	-3.63232	0.002887	0.062351	-1.58718
Gpr22	-0.50299	8.044078	-2.71241	0.017334	0.146604	-3.27071
Kcns2	-0.50311	4.311108	-4.57856	0.000475	0.028744	0.126855
Zfp612	-0.50319	5.491241	-4.02173	0.001361	0.043789	-0.87302
Hrh3	-0.50327	4.485998	-4.64249	0.000422	0.027251	0.239441
Lmx1b	-0.50395	5.131649	-3.24514	0.006143	0.088386	-2.30117
Kiz	-0.50437	8.562266	-3.14339	0.007495	0.097601	-2.48825
Epha7	-0.50444	5.037981	-4.90279	0.000262	0.023269	0.692412
Aif1l	-0.50511	4.863007	-2.72936	0.016776	0.144108	-3.24039
Ighv8-6	-0.50511	3.793342	-5.20427	0.000152	0.017841	1.205249
Slc38a1	-0.50551	5.564626	-2.91566	0.011687	0.120141	-2.90433
Bet1l	-0.50575	5.462782	-4.13496	0.001096	0.03993	-0.66724
Tomm7	-0.50585	5.923506	-3.50729	0.003682	0.069402	-1.81775
Myl1	-0.50586	5.995117	-2.21069	0.044945	0.23057	-4.13975
Ap1s2	-0.50608	6.027561	-3.83395	0.001953	0.052095	-1.21636
Cd53	-0.50692	5.427202	-3.16646	0.007165	0.095348	-2.44589
Sycp3	-0.50732	4.294681	-4.14794	0.001069	0.039677	-0.64373
Gm38490	-0.5078	4.259611	-3.65433	0.002766	0.061599	-1.54663
Mir673	-0.50848	6.668772	-3.52254	0.003574	0.068153	-1.78961
Crlf1	-0.50923	4.446718	-5.19134	0.000156	0.01804	1.18352
Ooep	-0.50964	4.413961	-4.40927	0.000652	0.032816	-0.17367
Fbln5	-0.51033	6.883019	-2.85914	0.013045	0.126825	-3.00677
Naa50	-0.51065	8.04578	-3.37523	0.004765	0.078702	-2.06141
Vwa9	-0.51193	5.490943	-4.64865	0.000417	0.027213	0.250266
Trpm5	-0.51254	4.361569	-5.80209	5.38E-05	0.012606	2.181476
Col27a1	-0.51299	5.088555	-5.9463	4.22E-05	0.01211	2.408535
Ifna4	-0.5131	5.725545	-3.26534	0.005906	0.087233	-2.26398
Aig1	-0.51316	6.472426	-3.79488	0.002106	0.054404	-1.28807
Eif5	-0.51336	9.198724	-2.32922	0.036018	0.20722	-3.94038
Ung	-0.51391	4.643273	-2.62912	0.020353	0.158466	-3.41897
Chrm1	-0.51501	4.013165	-4.4666	0.000586	0.031294	-0.07153
Gm10013	-0.51508	4.919871	-3.09187	0.008288	0.103104	-2.58276
AY761184	-0.51557	4.640003	-2.45083	0.028621	0.187299	-3.73158

Slc2a1	-0.51573	7.04129	-3.97698	0.001483	0.045603	-0.95463
Gja3	-0.51595	4.912762	-4.41615	0.000644	0.032724	-0.1614
Oxt	-0.51632	4.09503	-6.42223	1.93E-05	0.009991	3.134102
Rbmxl2	-0.51703	4.319611	-4.99971	0.00022	0.021321	0.858714
Al854703	-0.5172	3.899439	-5.31326	0.000125	0.016945	1.387353
Adam19	-0.51723	4.919281	-3.57274	0.003241	0.065997	-1.69701
Bcar1	-0.51828	5.152317	-2.69693	0.017861	0.14835	-3.29837
Tyw3	-0.51902	4.441664	-5.40121	0.000107	0.015832	1.532978
Fam63b	-0.51904	6.030518	-3.03841	0.0092	0.108254	-2.68061
Zc3h12a	-0.52052	4.240716	-3.50224	0.003719	0.069651	-1.82706
Arid3c	-0.52105	4.050998	-3.70653	0.002499	0.058288	-1.45051
Ccdc3	-0.52235	5.372287	-3.1675	0.00715	0.09532	-2.44397
Gls	-0.52291	8.447856	-2.91893	0.011613	0.11989	-2.89837
Tmem120k	-0.52311	5.303548	-2.28954	0.038801	0.214718	-4.00761
Kcne1	-0.52333	4.731827	-4.46425	0.000588	0.031294	-0.07571
C77080	-0.52436	4.325222	-7.1242	6.44E-06	0.006956	4.138053
Tet3	-0.52444	5.222968	-3.19402	0.006789	0.09314	-2.39523
Ripk4	-0.52491	4.125405	-5.98843	3.93E-05	0.01211	2.474239
Ncbp2	-0.52502	6.623396	-3.49649	0.003761	0.070029	-1.83767
Plxdc2	-0.52502	8.783712	-2.50746	0.025696	0.177101	-3.63307
C330006A	-0.52557	4.918528	-4.32617	0.000762	0.034093	-0.32239
Kdm3a	-0.52599	6.995629	-2.59328	0.021804	0.163663	-3.48237
Mdga1	-0.52683	4.573663	-4.62256	0.000438	0.027669	0.204399
Olf661	-0.52822	3.948942	-3.77082	0.002207	0.055188	-1.33229
Ighj1	-0.52844	6.508077	-2.40525	0.031205	0.195604	-3.81031
Gm13194	-0.52908	4.797635	-3.19797	0.006737	0.092834	-2.38796
Spg7	-0.52939	6.647088	-4.16076	0.001043	0.039578	-0.62052
Nupr1	-0.53014	6.652408	-3.00793	0.009764	0.11113	-2.73629
Alkbh4	-0.53015	4.560281	-3.60792	0.003027	0.06362	-1.63215
Tmem127	-0.53021	5.955926	-3.46958	0.003963	0.071814	-1.88732
Pdp1	-0.53083	6.657111	-2.44354	0.02902	0.188959	-3.74421
Ihh	-0.53141	4.78182	-4.98903	0.000224	0.021397	0.840454
Frmd6	-0.53175	6.525957	-2.22771	0.043546	0.22786	-4.1114
Naa10	-0.5318	5.341197	-4.31374	0.000781	0.03453	-0.3447
LOC10263	-0.53315	4.001002	-3.5206	0.003588	0.068298	-1.79319
Pcdhga11	-0.53358	4.983371	-2.61602	0.020872	0.160601	-3.44217
Spr1a	-0.53389	4.296207	-2.37554	0.033008	0.199438	-3.86133
Hsp90b1	-0.53399	10.71185	-2.49792	0.026168	0.179011	-3.64971
Gm5639	-0.53478	5.948432	-3.32297	0.005277	0.082814	-2.15778
Agmat	-0.5352	4.639952	-4.05929	0.001266	0.042313	-0.80464
Pptc7	-0.53621	8.651815	-2.62554	0.020494	0.158912	-3.4253
Bpifb9b	-0.53637	4.215376	-4.4838	0.000567	0.03105	-0.04095
Rdm1	-0.53651	5.632785	-3.62177	0.002947	0.062839	-1.60662
Gm16982	-0.53705	4.70462	-6.0619	3.48E-05	0.011845	2.588131
Ak8	-0.53797	4.294167	-4.12396	0.001119	0.040148	-0.68719
Ces1b	-0.53883	4.107051	-4.51412	0.000536	0.030405	0.012847
Rpf2	-0.53891	5.619215	-2.33545	0.035597	0.206283	-3.92977
Gpnmb	-0.53906	4.957682	-3.02425	0.009458	0.109319	-2.7065

Der11	-0.53939	6.436523	-5.38404	0.000111	0.016005	1.504637
311008211	-0.53958	5.265852	-2.19862	0.045963	0.23338	-4.15979
Ddo	-0.54043	6.851369	-3.16983	0.007118	0.09532	-2.4397
Ccrn4l	-0.54052	5.959883	-3.53329	0.0035	0.067746	-1.76977
Dhrs7c	-0.54089	6.983463	-2.88518	0.012401	0.123067	-2.95962
Arhgap44	-0.54148	6.291433	-2.46585	0.027815	0.184595	-3.70553
Klk1b11	-0.54215	4.182702	-4.06698	0.001248	0.042022	-0.79065
Clk1	-0.54225	9.33825	-3.0242	0.009459	0.109319	-2.70658
2700068HC	-0.5431	3.811296	-4.25571	0.000871	0.036956	-0.44906
Osr1	-0.54364	5.957347	-2.24239	0.042372	0.224936	-4.08686
Olf1335	-0.54394	3.512697	-5.1248	0.000175	0.019117	1.071358
Tcirg1	-0.54406	4.705673	-4.65246	0.000414	0.027213	0.256963
Npffr1	-0.54457	4.312025	-4.91034	0.000258	0.02321	0.705416
Camk1g	-0.54459	4.687503	-3.05384	0.008927	0.10681	-2.65238
Fgf7	-0.54622	3.93148	-5.55882	8.17E-05	0.014851	1.790954
Cntfr	-0.54688	5.480306	-2.9735	0.010442	0.114162	-2.7991
Dppa5a	-0.54716	3.780863	-5.15558	0.000166	0.018582	1.123319
Arl15	-0.54757	6.479797	-2.97843	0.010342	0.11371	-2.79011
Lum	-0.54894	6.95616	-2.31425	0.037045	0.210401	-3.9658
Nf2	-0.54942	7.388699	-2.66915	0.018843	0.152688	-3.34787
Csf2rb	-0.54985	4.372535	-3.06358	0.008759	0.106012	-2.63457
Sncg	-0.55012	6.346686	-4.34113	0.000741	0.033882	-0.29556
Rrad	-0.5502	9.1012	-3.24671	0.006125	0.088386	-2.29829
Olf1884	-0.5505	3.989722	-3.93771	0.001599	0.04755	-1.02636
Htr6	-0.55091	3.988542	-4.24354	0.000892	0.037186	-0.47098
4930431PC	-0.55101	4.736213	-5.86985	4.80E-05	0.012162	2.288576
Ogn	-0.55113	9.027167	-3.06289	0.008771	0.106039	-2.63582
LOC102636	-0.55132	4.036516	-2.32276	0.036457	0.208551	-3.95135
Lce3d	-0.55185	4.583286	-2.44811	0.02877	0.188035	-3.7363
Zfp930	-0.55197	4.710015	-2.88625	0.012375	0.122909	-2.95767
Tbx10	-0.55243	4.218414	-3.73201	0.002379	0.057429	-1.40363
Mir339	-0.55322	4.018148	-4.76284	0.000338	0.025389	0.449991
Pdia6	-0.55372	8.846839	-2.32403	0.03637	0.208333	-3.9492
Trbv2	-0.55436	5.03125	-5.23498	0.000144	0.017592	1.256736
Aurkaip1	-0.55447	6.583442	-3.23541	0.006261	0.089253	-2.31909
Mrgprx2	-0.5554	4.644499	-4.46134	0.000591	0.031294	-0.08089
Vmn1r2	-0.55652	4.079163	-4.23594	0.000904	0.037479	-0.48468
Gm13111	-0.5566	5.189473	-2.31657	0.036883	0.209869	-3.96185
Pde4d	-0.55726	5.390964	-3.88224	0.001779	0.050272	-1.12785
Adora1	-0.5583	6.376448	-3.94502	0.001577	0.047225	-1.013
Nop56	-0.55901	7.470656	-4.12945	0.001107	0.039942	-0.67723
Il27	-0.55907	4.273524	-3.73294	0.002375	0.057429	-1.40193
Srsf10	-0.55962	6.770318	-2.42842	0.029865	0.191748	-3.77036
AA465934	-0.55963	4.306449	-3.06088	0.008805	0.106211	-2.63951
Morc2a	-0.55998	6.216105	-2.99526	0.010008	0.112245	-2.75942
Mrto4	-0.56118	5.863939	-2.35237	0.034482	0.203345	-3.90095
Gm4793	-0.56121	4.261225	-5.07849	0.000191	0.019641	0.992891
Myc	-0.56182	5.4424	-2.17622	0.047909	0.238299	-4.19687

Hdac1	-0.56198	5.13893	-2.20917	0.045072	0.230792	-4.14227
Mir449b	-0.56228	11.33507	-4.59869	0.000458	0.028131	0.162368
Myh11	-0.5662	7.282003	-2.3757	0.032998	0.199438	-3.86105
Asb15	-0.56887	9.187242	-3.30532	0.005462	0.083865	-2.1903
Gm3409	-0.56944	5.059194	-3.2082	0.006603	0.091915	-2.36916
Alox12	-0.56959	4.92354	-3.63241	0.002886	0.062351	-1.58701
Fbln7	-0.57062	4.318366	-4.84774	0.000289	0.024303	0.597376
Gm6139	-0.57099	3.801175	-5.22954	0.000145	0.01764	1.247632
Metap2	-0.57133	9.271952	-2.36976	0.03337	0.200485	-3.87121
Gpr50	-0.57211	4.533118	-3.75171	0.00229	0.056417	-1.36741
Rbbp5	-0.57269	6.680128	-3.16708	0.007156	0.09532	-2.44475
Gm15299	-0.57292	5.006836	-3.79246	0.002116	0.05449	-1.29253
Cops7a	-0.57301	6.898227	-2.49499	0.026314	0.179203	-3.65482
Ptrhd1	-0.57328	4.57648	-4.10346	0.001164	0.040865	-0.72439
Gm10334	-0.57332	4.09827	-4.91311	0.000257	0.02321	0.710179
Manf	-0.57436	4.46689	-4.72317	0.000364	0.026433	0.380804
Krt7	-0.57471	4.144287	-5.99704	3.88E-05	0.01211	2.487629
Chst13	-0.57512	4.446816	-3.68182	0.002622	0.060079	-1.49599
Gmeb1	-0.57617	5.148278	-2.85548	0.013138	0.127404	-3.0134
Antxr2	-0.5765	8.613766	-3.52011	0.003591	0.06831	-1.79409
1500009L1	-0.57715	5.813965	-3.11876	0.007864	0.100105	-2.53345
Bpnt1	-0.57777	5.228366	-5.3532	0.000117	0.016075	1.453622
Chn1	-0.58042	6.119456	-4.67596	0.000397	0.027132	0.298197
Gm12781	-0.5813	4.818888	-4.36292	0.000711	0.033246	-0.25654
Tmcc1	-0.58148	5.459259	-2.62053	0.020692	0.159767	-3.43418
Olfr1085	-0.58198	3.917345	-6.0063	3.82E-05	0.01211	2.50201
Smarce1	-0.58234	7.652839	-2.33783	0.035438	0.205793	-3.92572
Lfng	-0.58392	5.331577	-3.27657	0.005777	0.086342	-2.24329
Mtus2	-0.58486	7.622447	-4.61549	0.000444	0.027766	0.191955
Dixdc1	-0.58535	5.14564	-5.37909	0.000112	0.016051	1.496454
Rpl31	-0.58549	5.647685	-2.23562	0.04291	0.226685	-4.09818
Unc93a	-0.5861	4.348226	-2.22293	0.043935	0.228486	-4.11937
H2-Eb1	-0.58636	5.768504	-3.4661	0.00399	0.072035	-1.89374
Mtfr1	-0.58682	4.944058	-2.76551	0.015643	0.138835	-3.17557
Ewsr1	-0.58792	8.531559	-2.54679	0.023836	0.17121	-3.56421
Fam229a	-0.58908	4.935438	-4.72567	0.000362	0.026433	0.38517
Lgr6	-0.58933	6.798598	-2.19438	0.046326	0.234458	-4.16683
Slc25a38	-0.58947	6.03518	-3.49213	0.003793	0.07031	-1.84571
Snhg9	-0.58961	4.637	-4.5103	0.00054	0.030405	0.006078
Rapsn	-0.5901	5.157098	-3.22251	0.006421	0.090568	-2.34283
Sephs1	-0.59015	5.57016	-2.69717	0.017852	0.148337	-3.29793
Echdc2	-0.59055	7.047824	-2.40594	0.031164	0.195462	-3.80912
1700044KC	-0.59083	4.65608	-3.51874	0.003601	0.068441	-1.79662
2310040G2	-0.59206	5.759959	-2.94026	0.01114	0.117558	-2.8596
Tagln	-0.59338	5.912781	-3.07296	0.0086	0.104751	-2.61739
Fhl3	-0.59385	6.24881	-4.92506	0.000251	0.023143	0.730738
Scgb3a1	-0.59435	4.478706	-3.44148	0.004187	0.074182	-1.93918
Gucd1	-0.59465	5.640177	-2.23278	0.043137	0.226982	-4.10293

Shc1	-0.59721	5.894267	-3.09655	0.008213	0.102651	-2.57417
Atxn7l1os2	-0.59757	4.146366	-5.03977	0.000204	0.02023	0.927047
Gm5093	-0.59793	4.766791	-3.05297	0.008942	0.106876	-2.65398
Ubald2	-0.59927	4.223963	-2.87062	0.012757	0.125301	-2.986
Tef	-0.60141	5.637285	-3.84319	0.001919	0.051918	-1.19943
Cd63	-0.60162	6.571425	-5.96883	4.06E-05	0.01211	2.4437
Cyb5r4	-0.60193	4.932109	-2.75002	0.016119	0.141046	-3.20337
Csrp2	-0.60306	5.031477	-2.60592	0.021281	0.162038	-3.46004
Rprl2	-0.60394	6.392202	-3.66169	0.002727	0.061344	-1.53307
Sacs	-0.60403	6.303453	-4.62795	0.000434	0.027635	0.213878
Vasn	-0.60435	4.8697	-3.62419	0.002933	0.062744	-1.60216
Camk2a	-0.60584	7.24607	-4.77744	0.000329	0.025389	0.475405
Tmx2	-0.60615	5.187975	-2.58624	0.022101	0.164597	-3.49479
Gm10865	-0.60811	5.14191	-5.17221	0.000161	0.018455	1.15135
Crebl2	-0.60845	5.893368	-3.24059	0.006198	0.088888	-2.30955
Ifnl3	-0.60991	4.406147	-3.50637	0.003689	0.069422	-1.81944
Cks1b	-0.61083	4.713955	-2.65895	0.019218	0.154113	-3.36602
Hmgcs2	-0.61366	9.513482	-2.72125	0.017041	0.145017	-3.25491
Fbxo40	-0.61563	7.919725	-2.91501	0.011702	0.120141	-2.9055
Klf11	-0.61749	6.421889	-2.93558	0.011242	0.118325	-2.86812
Atp6v0c-p:	-0.62112	8.506497	-2.35019	0.034624	0.203657	-3.90467
Gm8580	-0.62116	7.177863	-2.32829	0.03608	0.207388	-3.94196
Rac2	-0.62145	5.38052	-3.64785	0.002801	0.061834	-1.55856
Olfml2a	-0.62165	4.821827	-4.75199	0.000345	0.025745	0.431099
Vps72	-0.62182	5.890425	-2.99407	0.010031	0.112245	-2.76159
Olf901	-0.6222	4.016047	-5.10253	0.000182	0.019303	1.033656
Mir1946a	-0.62248	6.001584	-2.48438	0.026852	0.181257	-3.67331
Mmachc	-0.62484	7.555091	-3.28716	0.005659	0.08547	-2.22378
Slc25a28	-0.62501	8.306308	-3.98635	0.001456	0.045242	-0.93752
Dll4	-0.62565	5.511882	-2.55997	0.023242	0.169045	-3.54105
Sec63	-0.62568	7.855452	-4.28374	0.000826	0.035657	-0.39861
Gm19277	-0.62998	4.979441	-3.07829	0.008511	0.104434	-2.60763
Rnf146	-0.63055	5.029612	-4.50235	0.000548	0.030412	-0.00802
Fundc2	-0.63059	7.930149	-2.55001	0.023689	0.17075	-3.55855
Vpreb2	-0.63134	4.27287	-4.13406	0.001098	0.03993	-0.66888
Max	-0.63257	7.047811	-3.30862	0.005427	0.083689	-2.18423
Nap1l1	-0.63292	6.516547	-4.14831	0.001068	0.039677	-0.64306
Basp1	-0.63353	4.67298	-6.40332	1.99E-05	0.010037	3.105976
Cxx1b	-0.63464	4.8137	-3.27025	0.005849	0.08676	-2.25492
Zfp637	-0.6351	5.373203	-2.4116	0.030833	0.194714	-3.79938
Spsb1	-0.63772	5.213206	-6.3552	2.15E-05	0.010083	3.034121
3830406C1	-0.63886	5.202379	-6.30922	2.32E-05	0.01047	2.965129
Prkacb	-0.64062	6.977539	-2.68349	0.01833	0.150388	-3.32233
H2-M10.1	-0.6419	3.871433	-4.87904	0.000273	0.023519	0.651469
Pla2g2d	-0.64275	4.514398	-4.67271	0.000399	0.027132	0.2925
Gja4	-0.64427	4.941376	-4.40831	0.000653	0.032816	-0.1754
Gm6981	-0.64463	6.109653	-3.07304	0.008599	0.104751	-2.61725
BC004004	-0.64475	9.263563	-2.58576	0.022121	0.164697	-3.49563

Smad6	-0.64565	5.615163	-4.68764	0.000388	0.027042	0.318655
Prkar1a	-0.64651	8.783515	-4.87967	0.000273	0.023519	0.652551
Xlr3a	-0.64724	4.892853	-4.80446	0.000313	0.025191	0.52237
Grifin	-0.64781	4.740709	-3.86053	0.001855	0.051136	-1.16764
Fam98c	-0.64829	4.865472	-3.10801	0.008031	0.10145	-2.55316
Itgbl1	-0.64831	4.74616	-3.00183	0.009881	0.111846	-2.74743
Gm8350	-0.64857	4.37656	-3.69354	0.002563	0.059276	-1.47442
Rasl10b	-0.64886	6.427036	-2.97045	0.010504	0.114429	-2.80465
Hnrnpul2	-0.6495	7.566691	-2.51146	0.0255	0.176534	-3.62607
Wif1	-0.65007	4.906087	-3.38407	0.004683	0.077965	-2.0451
Cnrip1	-0.65145	4.467894	-3.94962	0.001563	0.046979	-1.0046
Mir210	-0.65224	6.464569	-3.02965	0.009359	0.108872	-2.69662
Ighv11-2	-0.65339	4.926069	-3.54676	0.00341	0.067035	-1.74493
Gpbp1l1	-0.65477	7.172289	-2.90325	0.011973	0.121077	-2.92685
Fam189a1	-0.65889	5.143209	-3.52694	0.003544	0.068137	-1.78149
Hexim1	-0.65892	6.754361	-5.56967	8.01E-05	0.014851	1.808567
Tmem192	-0.65973	5.025441	-5.1104	0.00018	0.019303	1.046992
Stc2	-0.65977	5.581573	-3.35484	0.004958	0.080194	-2.09901
Gm26910	-0.65995	4.661886	-4.29373	0.000811	0.035296	-0.38064
Tsg101	-0.66125	7.361755	-2.5066	0.025738	0.177204	-3.63457
Rnf144b	-0.66227	7.265381	-4.75297	0.000344	0.025745	0.432805
Ap1s3	-0.66233	4.061739	-4.11473	0.001139	0.040407	-0.70393
Pm20d2	-0.66359	8.433831	-2.52083	0.025048	0.17531	-3.60969
Mir467e	-0.66515	5.428491	-3.30373	0.005479	0.084015	-2.19325
Timp1	-0.66535	4.470383	-2.27249	0.040058	0.21853	-4.03634
Igkv4-57	-0.66567	4.198251	-4.41765	0.000642	0.032715	-0.15873
1110019D1	-0.66701	4.740716	-3.63533	0.00287	0.062351	-1.58163
Rnu11	-0.66876	8.591404	-2.53213	0.024513	0.173222	-3.5899
Gm5849	-0.66922	7.809106	-2.48006	0.027073	0.182091	-3.68083
Kctd12	-0.66931	5.808899	-2.22055	0.04413	0.228938	-4.12334
Mir208a	-0.66955	5.35419	-2.73679	0.016537	0.14298	-3.22709
Bmp4	-0.66984	6.460978	-2.71208	0.017346	0.146621	-3.27131
Ndufb10	-0.6703	9.491347	-2.30098	0.037978	0.212405	-3.98828
Psm3	-0.67179	6.185099	-2.3006	0.038005	0.212506	-3.98891
Ccdc92	-0.67444	4.634623	-6.03185	3.66E-05	0.011961	2.541651
Setd8	-0.67513	10.73047	-8.67281	7.13E-07	0.003241	6.088332
Gstm3	-0.67737	3.687926	-5.61695	7.39E-05	0.014571	1.885127
Strip2	-0.67774	8.619788	-3.00442	0.009831	0.111523	-2.7427
Gatsl2	-0.67862	5.793827	-2.20927	0.045064	0.230792	-4.14211
Olf1463	-0.67913	3.797399	-7.52373	3.55E-06	0.005475	4.675034
Fam174b	-0.68226	8.881202	-5.25791	0.000138	0.017535	1.295098
Id2	-0.68396	6.035624	-2.31965	0.03667	0.209137	-3.95663
Mettl9	-0.68523	8.289544	-2.94144	0.011115	0.11753	-2.85747
Fam126a	-0.68675	6.668993	-2.99407	0.010031	0.112245	-2.7616
Igkv4-58	-0.68678	6.535516	-4.97388	0.00023	0.021582	0.814517
Gm6682	-0.68768	5.891998	-3.71256	0.00247	0.057893	-1.43941
Lyar	-0.68838	5.146532	-5.39823	0.000108	0.015832	1.528066
Arhgdib	-0.69388	5.76455	-4.51579	0.000534	0.030387	0.015812

Klhl41	-0.69461	8.001004	-3.07621	0.008546	0.104601	-2.61143
Mettl7a2	-0.69521	4.869841	-4.53918	0.000511	0.029841	0.057251
Gm10029	-0.69729	4.307278	-3.62085	0.002952	0.062839	-1.60832
Gm8465	-0.69842	5.39542	-3.85754	0.001866	0.051301	-1.17311
Lilrb4	-0.69927	8.20147	-2.99987	0.009919	0.11213	-2.75101
Mir297a-4	-0.6996	4.907199	-4.09875	0.001174	0.04106	-0.73293
Gcsh	-0.69987	4.767415	-3.96203	0.001526	0.046489	-0.98191
Abr	-0.70003	5.560794	-5.23897	0.000143	0.017592	1.263419
Calr	-0.70024	10.40932	-4.02142	0.001362	0.043789	-0.87359
Mir181d	-0.70067	5.862067	-4.01079	0.00139	0.044033	-0.89295
Rap1gap2	-0.7025	6.598782	-5.88338	4.69E-05	0.012162	2.309883
Mrps16	-0.705	5.83744	-2.58064	0.022339	0.165726	-3.50465
Arf3	-0.70532	5.671268	-3.27802	0.005761	0.086188	-2.24062
Ank	-0.71149	9.116262	-5.89425	4.60E-05	0.012162	2.326967
Olfir538	-0.71179	5.113668	-4.41832	0.000641	0.032715	-0.15753
Ppp1r2	-0.71196	7.042945	-2.44104	0.029158	0.189311	-3.74853
Bambi	-0.71329	5.891402	-3.21111	0.006566	0.091547	-2.3638
Cysrt1	-0.71364	4.217562	-4.11898	0.00113	0.040298	-0.69622
LOC10263	-0.71509	6.10046	-3.37452	0.004771	0.078726	-2.0627
Cyp2a22	-0.71613	4.581065	-3.37854	0.004734	0.07842	-2.0553
Ighv2-2	-0.71674	7.313178	-4.78654	0.000324	0.025382	0.491236
Gm6570	-0.7172	5.584432	-2.90875	0.011845	0.120438	-2.91687
Kcng2	-0.71754	6.398882	-3.29442	0.005579	0.084885	-2.2104
Gm26536	-0.71856	4.89251	-6.95061	8.39E-06	0.007613	3.897049
Gm13919	-0.72051	4.092382	-3.21366	0.006533	0.091305	-2.35911
Pfkfb2	-0.72076	7.954234	-2.86719	0.012842	0.125792	-2.99221
Penk	-0.72151	5.631107	-3.62356	0.002936	0.062766	-1.60331
2410022M	-0.72394	5.724457	-2.32673	0.036186	0.207661	-3.94461
Dctn5	-0.72636	7.735779	-2.59509	0.021728	0.16334	-3.47916
Tuba1a	-0.72719	4.059745	-2.36456	0.033699	0.201529	-3.88012
Smim20	-0.72742	6.869524	-2.4247	0.030076	0.19235	-3.77678
Tmem55a	-0.72753	6.747074	-2.93771	0.011196	0.118032	-2.86425
Cd200	-0.72812	7.493849	-2.26288	0.040784	0.220393	-4.0525
Zfp623	-0.73095	4.907962	-3.59346	0.003113	0.064607	-1.65881
Cybb	-0.73334	5.261912	-3.02141	0.00951	0.109763	-2.71169
Rundc1	-0.7358	5.237569	-3.7479	0.002307	0.056499	-1.3744
Ezr	-0.73625	8.300171	-2.6452	0.019733	0.155883	-3.39044
Egln3	-0.73752	7.324599	-2.46099	0.028074	0.18547	-3.71397
Zfp386	-0.73999	5.094849	-4.76509	0.000337	0.025389	0.45391
Olfir452	-0.74213	4.255888	-4.87917	0.000273	0.023519	0.651689
Npm3	-0.74292	7.518514	-3.50118	0.003726	0.069704	-1.82902
Klra13-ps	-0.74445	7.880052	-4.04104	0.001311	0.043008	-0.83786
Gm8234	-0.74522	4.080188	-5.72083	6.18E-05	0.013916	2.052086
Smok4a	-0.7492	4.022861	-4.85879	0.000284	0.023996	0.616481
Zfp706	-0.74967	6.930342	-5.27704	0.000134	0.017404	1.327026
Olfir1411	-0.75068	4.794256	-4.89611	0.000265	0.0234	0.680902
Gm8618	-0.75386	7.142276	-3.10337	0.008104	0.10201	-2.56167
Gm13777	-0.75625	4.796355	-5.05106	0.0002	0.020075	0.946283



Ifna5	-0.75739	5.710008	-3.54022	0.003453	0.067439	-1.75698
Prmt1	-0.75831	5.866126	-2.80821	0.0144	0.13377	-3.09875
Fgf16	-0.76053	4.97309	-4.63772	0.000426	0.027352	0.231066
Snph	-0.76168	5.27085	-4.20298	0.000963	0.038237	-0.54416
Lincrd1	-0.76176	4.233053	-4.16031	0.001044	0.039578	-0.62132
Mir1945	-0.76183	4.506941	-3.35378	0.004968	0.080256	-2.10096
Sgpl1	-0.76294	5.984253	-2.65595	0.019329	0.154459	-3.37136
Ss18l1	-0.76348	5.291599	-5.11865	0.000177	0.019244	1.060946
Olfml2b	-0.76377	6.772902	-2.9711	0.010491	0.114365	-2.80347
Gm11937	-0.76708	5.193607	-3.11839	0.00787	0.100127	-2.53414
Tollip	-0.76848	7.261756	-2.18203	0.047397	0.237082	-4.18728
1810043HC	-0.77717	5.476485	-6.04675	3.57E-05	0.011961	2.564717
Vmn2r29	-0.78043	5.747969	-3.04095	0.009155	0.108065	-2.67597
Vmn1r43	-0.78159	4.99625	-2.84421	0.013428	0.12907	-3.03377
Styx	-0.78315	7.027696	-2.49618	0.026255	0.179203	-3.65275
Sulf2	-0.78328	7.92216	-4.01622	0.001375	0.043852	-0.88306
Rps11	-0.78422	5.506816	-3.77412	0.002193	0.054941	-1.32621
Gm7072	-0.78736	5.066444	-2.67813	0.01852	0.151402	-3.33189
Myl9	-0.78979	7.406047	-3.85155	0.001888	0.051557	-1.18409
Mfap4	-0.79264	6.635908	-2.39206	0.031993	0.197039	-3.83298
Gdap10	-0.79488	5.933777	-2.3831	0.03254	0.198415	-3.84836
Cml3	-0.80128	5.521722	-2.828	0.013858	0.131543	-3.06306
Efhd2	-0.80923	6.861498	-2.38736	0.032279	0.197762	-3.84105
H2afy3	-0.81113	5.49271	-4.08201	0.001212	0.041512	-0.76335
Cox11	-0.81221	5.634098	-3.01142	0.009698	0.110901	-2.72993
Gm31464	-0.81243	6.488807	-2.42896	0.029834	0.191748	-3.76942
Thbs2	-0.81283	7.542803	-5.46101	9.68E-05	0.015433	1.631316
Prr1	-0.81693	4.624088	-6.93656	8.57E-06	0.007613	3.877333
Mir483	-0.8173	6.46993	-2.59294	0.021818	0.163663	-3.48296
Sat1	-0.81853	6.673418	-2.29897	0.038122	0.212775	-3.99168
Sec11c	-0.81855	5.516832	-3.6203	0.002955	0.062839	-1.60933
Trav13-2	-0.81951	6.503655	-3.43324	0.004254	0.074851	-1.95438
Gm26666	-0.82428	4.303028	-6.17497	2.89E-05	0.01118	2.761703
Mir1895	-0.82564	5.044864	-3.03034	0.009346	0.108872	-2.69536
Olfrl303	-0.82571	4.531157	-3.18677	0.006886	0.093439	-2.40857
Ppid	-0.83867	4.450129	-4.52113	0.000529	0.030313	0.025279
Mpped2	-0.84017	6.191406	-6.16705	2.92E-05	0.01118	2.749608
Mir665	-0.84488	4.680749	-4.8584	0.000284	0.023996	0.615819
Bloc1s2	-0.85618	4.622367	-3.92324	0.001644	0.048299	-1.05281
Ostc	-0.85642	6.60532	-3.31016	0.00541	0.08365	-2.18138
Snrpc	-0.85712	6.477851	-2.39345	0.03191	0.197038	-3.8306
Tuba8	-0.86127	9.822944	-3.35855	0.004922	0.079874	-2.09216
Mir1956	-0.86568	7.34613	-4.40817	0.000653	0.032816	-0.17565
Rcsd1	-0.86935	5.555722	-8.17699	1.40E-06	0.003241	5.50158
Lce3c	-0.87025	4.70127	-5.06231	0.000196	0.019937	0.965402
Cdh24	-0.87035	4.666226	-8.53753	8.54E-07	0.003241	5.93159
1110034G2	-0.87782	6.178928	-4.32826	0.000759	0.034093	-0.31863
Ciz1	-0.87825	6.639652	-3.25683	0.006005	0.087839	-2.27966

Otx1	-0.87845	4.872135	-4.7976	0.000317	0.025191	0.510462
Mmp12	-0.88232	4.362386	-5.87482	4.76E-05	0.012162	2.296401
Tom20	-0.88971	5.556122	-3.07594	0.00855	0.104605	-2.61194
Gm8623	-0.89925	4.292887	-4.24187	0.000894	0.037241	-0.47398
1700066CC	-0.90357	4.288776	-4.58382	0.000471	0.028689	0.136139
Gm5879	-0.90518	5.363166	-5.94628	4.22E-05	0.01211	2.408503
Il17d	-0.90846	4.600296	-6.67974	1.28E-05	0.008594	3.511498
Rps20	-0.91307	6.297373	-4.17541	0.001015	0.039168	-0.594
Mettl7a1	-0.91411	7.833635	-3.36228	0.004887	0.079659	-2.08529
Lgals3	-0.91465	7.614614	-3.62273	0.002941	0.062814	-1.60485
Gm15807	-0.91686	5.141344	-3.677	0.002647	0.060349	-1.50487
Gm6548	-0.91694	5.802762	-2.58846	0.022007	0.164239	-3.49086
Enpp2	-0.92141	6.137929	-4.61526	0.000444	0.027766	0.191551
Tuba4a	-0.92925	9.916558	-4.77524	0.00033	0.025389	0.471588
Cyp2e1	-0.94121	4.922952	-2.6066	0.021253	0.16197	-3.45883
Srsf3	-0.94724	5.452488	-4.62184	0.000439	0.027669	0.203131
Fibin	-0.94893	6.037255	-3.74965	0.002299	0.05644	-1.37119
Ppp1r14c	-0.95567	6.668162	-3.03083	0.009337	0.108872	-2.69447
1700003F1	-0.97869	5.495032	-8.86928	5.50E-07	0.003241	6.311598
Gm38519	-0.98008	7.635125	-2.29754	0.038224	0.21282	-3.99409
Igkv2-137	-0.98167	7.511932	-7.7079	2.71E-06	0.004818	4.914416
Hsd11b1	-0.98225	6.780684	-3.93031	0.001622	0.04804	-1.03988
Trbc2	-0.98286	6.488224	-3.47988	0.003884	0.071265	-1.86831
Fbxw23	-0.98506	3.88019	-8.06864	1.62E-06	0.003366	5.368774
Angptl7	-0.98894	5.972978	-2.24131	0.042457	0.225291	-4.08866
Taf9	-1.00312	4.705307	-4.65467	0.000413	0.027213	0.260836
Gm10257	-1.01287	8.338291	-2.31091	0.037277	0.210788	-3.97145
Atp5o	-1.02168	6.336978	-3.04152	0.009144	0.108038	-2.67492
Bcap31	-1.02505	5.904141	-6.61216	1.42E-05	0.008683	3.413487
Trbj2-5	-1.02809	6.155226	-4.46662	0.000586	0.031294	-0.07149
Aph1a	-1.02841	5.688758	-4.03274	0.001332	0.043465	-0.85297
Nmrk2	-1.03671	5.057653	-5.67189	6.72E-05	0.014278	1.973633
2610042L0	-1.04724	4.422341	-6.97013	8.14E-06	0.007613	3.924381
Spin2d	-1.04945	4.705583	-6.14451	3.03E-05	0.011427	2.715144
Gm34731	-1.05103	5.933794	-2.49867	0.02613	0.178904	-3.64841
Igfbp3	-1.06356	6.982707	-3.3478	0.005027	0.080753	-2.11199
Pcnp	-1.07421	5.874841	-3.5415	0.003445	0.067324	-1.75462
Mrfap1	-1.09179	7.671878	-2.31413	0.037053	0.210401	-3.966
9030025P2	-1.0923	4.686598	-6.74982	1.15E-05	0.008528	3.612365
Tcrg-V1	-1.09347	6.943176	-8.17077	1.41E-06	0.003241	5.493996
Trdj1	-1.09624	5.58453	-5.71172	6.28E-05	0.013916	2.037507
Gm5453	-1.10888	8.035078	-2.98721	0.010166	0.112746	-2.77411
3000002C1	-1.13742	6.498511	-2.82604	0.013911	0.13171	-3.06659
Ppp1r2-ps	-1.1401	5.430766	-4.09631	0.00118	0.041181	-0.73736
Mir3058	-1.15468	6.677053	-5.51668	8.78E-05	0.014957	1.722363
Gm6404	-1.16589	9.535543	-2.38863	0.032202	0.197419	-3.83888
Pcdhga7	-1.17418	6.425117	-2.22466	0.043793	0.228192	-4.11647
Mir1190	-1.18194	6.039402	-3.21697	0.006491	0.091046	-2.35301

Zhx3	-1.20589	6.659587	-4.68721	0.000389	0.027042	0.317911
Gm38514	-1.22076	4.5099	-5.44173	0.0001	0.015433	1.599666
Gm5523	-1.25358	7.565918	-3.64744	0.002803	0.061834	-1.55932
Gm12295	-1.28234	7.004015	-3.78	0.002168	0.05469	-1.31542
Mir3473d	-1.29879	5.595883	-5.90095	4.55E-05	0.012162	2.337498
Mir187	-1.37711	5.288171	-2.93391	0.011279	0.118588	-2.87115
Trbj1-6	-1.41663	7.657084	-2.9617	0.010685	0.115335	-2.82058
Gm8526	-1.4229	5.198381	-6.21968	2.68E-05	0.010947	2.82978
Al607873	-1.4631	4.652237	-4.39823	0.000666	0.032994	-0.1934
Olf472	-1.48758	5.392276	-3.53221	0.003508	0.067788	-1.77177
Inmt	-1.5492	5.958147	-4.56474	0.000488	0.029068	0.102448
Igkj5	-1.63376	7.046892	-3.08312	0.008431	0.103975	-2.59878
Gm14305	-1.72132	7.091651	-4.38003	0.000689	0.033	-0.22592
Lce1j	-1.83936	6.948808	-4.06987	0.001241	0.041978	-0.7854
Sft2d1	-1.90051	5.333925	-4.35115	0.000727	0.033614	-0.2776
Gm10051	-2.81388	10.38147	-3.65645	0.002755	0.061581	-1.54272
Myh7	-2.85817	10.37072	-6.94989	8.40E-06	0.007613	3.896037