

Table S1. Differentially expressed transcripts between 1-yr-old *Mx1-cre* *Asx1^{f/f}* and *Asx1^{f/f}* LSK cells by RNA sequencing

Gene	Locus	Asx1 KO	WT	log2 (fold change)	Test stat	P-value	Q-value
<i>Moxd1</i>	chr10:23943322-24022589	0	0.841756	1.79769e+308	1.79769e+308	0.000881112	0.0181475
<i>BC025920</i>	chr10:81069052-81072581	0	1.43641	1.79769e+308	1.79769e+308	0.00090746	0.018558
<i>Cyp46a1</i>	chr12:109572590-109600444	0	0.996751	1.79769e+308	1.79769e+308	0.00253593	0.0386619
<i>Pvr13</i>	chr16:46394970-46497080	0	1.07657	1.79769e+308	1.79769e+308	0.000242494	0.00710864
<i>Slc25a27</i>	chr17:43778848-43803964	0	1.13473	1.79769e+308	1.79769e+308	0.000413579	0.0107336
<i>Katnal2</i>	chr18:77231938-77286035	0	1.18083	1.79769e+308	1.79769e+308	0.00352163	0.0476201
<i>Ubqln3</i>	chr7:111289136-111291786	0	0.806224	1.79769e+308	1.79769e+308	0.00352163	0.0476201
<i>Klh40</i>	chr9:121686724-121692937	0	1.70681	1.79769e+308	1.79769e+308	4.85E-05	0.00207998
<i>Plp1</i>	chrX:133357374-133372281	0	0.857	1.79769e+308	1.79769e+308	0.00202175	0.0328676
<i>Zfp365</i>	chr10:67348852-67375410	0.724183	0	-1.79769e+308	-1.79769e+308	0.00370368	0.0491629
<i>Xkrx</i>	chrX:130683583-130696467	0.0293139	2.11649	6.17395	-3.18255	0.00145982	0.0261738
<i>Ifit3</i>	chr19:34658018-34663472	0.0387094	1.63184	5.39767	-3.50082	0.000463836	0.0117498
<i>Col1a1</i>	chr11:94797583-94813170	0.0337693	0.788423	4.54519	-3.13691	0.00170738	0.0290205
<i>C1qtnf1</i>	chr11:118289770-118316309	0.0664221	1.40688	4.40469	-3.55234	0.000381821	0.0101366
<i>Prkab2</i>	chr3:97462134-97476990	0.054012	0.949249	4.13544	-3.14678	0.00165082	0.0283926
<i>Stap2</i>	chr17:56136501-56144991	0.120483	1.92376	3.99702	-3.17925	0.00147654	0.0262308
<i>Pcdhb12</i>	chr18:37089938-38001526	0.0502473	0.732377	3.86547	-3.34464	0.000823894	0.0174663
<i>Kdelr3</i>	chr15:79346837-79377171	0.182358	2.36464	3.69677	-3.00971	0.002615	0.0392081
<i>Gpr128</i>	chr16:56724721-56795971	0.144872	1.52983	3.40052	-3.00088	0.00269202	0.0397959
<i>Slc13a2</i>	chr11:78207986-78235687	0.157083	1.62375	3.36973	-2.94517	0.00322781	0.0445481
<i>D930048N14Rik</i>	chr11:51456590-51471183	0.150894	1.54993	3.3606	-3.16935	0.00152782	0.0268353
<i>Wdr47</i>	chr3:108394195-108448637	0.246694	2.33537	3.24286	-3.74651	0.000179312	0.00578164
<i>Epha7</i>	chr4:28740294-28894649	0.130594	0.950683	2.86387	-3.0751	0.00210434	0.0337364
<i>Mtfr2</i>	chr10:20067624-20081475	2.28348	15.9453	2.80383	-6.15659	7.43E-10	1.21E-07
<i>Ly6k</i>	chr15:74627303-74630398	2.56281	17.1466	2.74212	-3.56005	0.00037078	0.00991172
<i>Zfp738</i>	chr13:67768377-67784449	0.303612	1.99666	2.71729	-3.40908	0.000651833	0.0150598
<i>Caskin2</i>	chr11:115660665-115674906	0.500225	2.7415	2.45432	-3.78535	0.000153492	0.0051603
<i>Ddx60</i>	chr8:64406885-64516492	0.42304	1.87645	2.14914	-3.40793	0.000654586	0.0150615
<i>Fbxl18</i>	chr5:143633467-143656917	0.897859	3.97589	2.14672	-3.3546	0.000794798	0.0170682
<i>Stox1</i>	chr10:62122169-62188847	0.697667	2.95132	2.08075	-3.04256	0.00234574	0.0364788
<i>Slc2a10</i>	chr2:165329477-165345411	0.840389	3.32484	1.98415	-3.23776	0.00120472	0.0228601
<i>Chad</i>	chr11:94418415-94463100	7.04156	26.9734	1.93757	-5.79314	6.91E-09	1.01E-06
<i>Thbs1</i>	chr2:117937657-117952869	1.40511	5.03698	1.84188	-4.79515	1.63E-06	0.000124606
<i>Myl10</i>	chr5:137169015-137176964	7.33155	25.9836	1.82541	-3.38948	0.000700254	0.0156778
<i>Tmem104</i>	chr11:115048800-115108339	1.91124	6.70107	1.80988	-4.89596	9.78E-07	8.09E-05
<i>Hoxa3</i>	chr6:52119060-52163596	1.13566	3.93033	1.79112	-2.90674	0.00365218	0.0487589
<i>Eif2c4</i>	chr4:126166786-126210702	0.785142	2.66414	1.76264	-3.7465	0.000179318	0.00578164
<i>Cenpk</i>	chr13:105019034-105039697	2.98623	10.1213	1.76099	-3.18215	0.00146185	0.0261738
<i>Trim12a</i>	chr7:111448410-111473352	2.17749	7.3304	1.75122	-2.94694	0.00320933	0.0444248
<i>Cd200r1</i>	chr16:44765848-44795090	2.33277	7.85175	1.75097	-3.3803	0.000724061	0.0159335
<i>Atxn7l1</i>	chr12:33832550-33936022	1.9612	6.51739	1.73256	-2.94144	0.00326695	0.0449643
<i>Fbxo44</i>	chr4:147526908-147534173	1.81015	5.41659	1.58127	-3.46531	0.000529617	0.0130155

<i>Wasl</i>	chr6:24563809-24614995	1.21532	3.58075	1.55892	-3.31222	0.000925597	0.0188291
<i>Fam46c</i>	chr3:100275458-100293115	5.09112	14.9851	1.55747	-4.36639	1.26E-05	0.000699592
<i>Smm5</i>	chr11:115753908-115794806	7.51902	21.8789	1.54092	-3.46247	0.000535242	0.0131259
<i>Pou6f1</i>	chr15:100405748-100416796	1.21982	3.46068	1.50439	-3.26805	0.00108293	0.0211738
<i>Trim34a</i>	chr7:111392970-111410750	5.99969	16.8893	1.49315	-5.04428	4.55E-07	4.12E-05
<i>Zfp949</i>	chr9:88442857-88465924	1.46514	3.99875	1.44851	-2.99546	0.00274035	0.0402533
<i>Tnfrif3</i>	chr10:18720716-18735216	1.38287	3.73745	1.43439	-3.20742	0.00133932	0.0246833
<i>Gdpgp1</i>	chr7:87377778-87386306	1.41783	3.79118	1.41896	-2.90533	0.00366868	0.0489228
<i>Plxna3</i>	chrX:71574404-71590028	0.828284	2.19277	1.40456	-3.08097	0.00206327	0.0334019
<i>Adrb2</i>	chr18:62337469-62339613	2.78617	7.34043	1.39758	-3.02088	0.00252044	0.0384883
<i>Pycr1</i>	chr11:120497025-120504984	2.01147	5.22941	1.3784	-3.01133	0.00260102	0.0392081
<i>Xist</i>	chrX:100626855-100680296	0.354943	0.920569	1.37494	-3.06468	0.00217902	0.0346548
<i>Homer1</i>	chr13:94074449-94174917	0.495962	1.27014	1.35669	-3.13441	0.00172202	0.0291409
<i>Trp53inp1</i>	chr4:11083587-11101524	1.67121	4.14529	1.31058	-5.83547	5.36E-09	8.17E-07
<i>Nudt22</i>	chr19:7067508-7070527	10.2594	25.3016	1.30228	-3.42435	0.000616263	0.0145691
<i>Gab2</i>	chr7:104230260-104457461	1.66526	4.09483	1.29805	-3.62837	0.000285212	0.00815144
<i>Zfp239</i>	chr6:117813094-117822784	3.17987	7.76142	1.28735	-4.27124	1.94E-05	0.000986876
<i>Rbm48</i>	chr5:3571715-3637101	3.77228	9.06945	1.26558	-3.26165	0.00110766	0.021333
<i>Slc6a15</i>	chr10:102830441-102882013	2.92367	7.01889	1.26346	-3.55642	0.000375939	0.0100034
<i>Utp6</i>	chr11:79747457-79775889	3.45903	8.29086	1.26115	-3.98327	6.80E-05	0.00278023
<i>Socs3</i>	chr11:117827400-117830680	6.79133	16.2204	1.25604	-4.51971	6.19E-06	0.000381258
<i>Stxbp3a</i>	chr3:108596097-108643420	3.09518	7.36715	1.25108	-3.00276	0.00267539	0.0396513
<i>Stk25</i>	chr1:95408680-95532304	8.59659	20.3148	1.24069	-5.35849	8.39E-08	9.91E-06
<i>Dmtf1</i>	chr5:9100736-9161776	4.32149	10.2003	1.23901	-8.38473	0	0
<i>Lyst</i>	chr13:13682675-13869707	0.599806	1.40728	1.23034	-2.96248	0.00305174	0.0432068
<i>Slc52a3</i>	chr2:151822246-151834994	1.55806	3.57852	1.19961	-2.97491	0.0029307	0.0420054
<i>Acvr1</i>	chr2:58298848-58419239	2.25084	5.09698	1.17918	-3.0653	0.00217448	0.0346548
<i>Mrps31</i>	chr8:23521811-23540137	7.4078	16.6476	1.1682	-3.29404	0.000987572	0.0198457
<i>G2e3</i>	chr12:52449216-52477973	1.53913	3.45672	1.16729	-3.26462	0.00109612	0.0212951
<i>Adcy3</i>	chr12:4133396-4240123	2.60919	5.84291	1.16309	-3.88004	0.000104441	0.00387469
<i>Dapk1</i>	chr13:60703307-60864547	1.84295	4.07978	1.14647	-3.52096	0.000429989	0.0110603
<i>Tuft1</i>	chr3:94416680-94462728	4.48173	9.83806	1.13432	-3.27963	0.00103943	0.020637
<i>Tfpi</i>	chr2:84273016-84316932	8.16748	17.7096	1.11657	-3.919	8.89E-05	0.00343537
<i>Dnajc13</i>	chr9:104053926-104165260	2.70664	5.84454	1.11059	-4.26215	2.02E-05	0.00102341
<i>Mettl23</i>	chr11:116704828-116711054	25.6766	55.0985	1.10156	-4.3764	1.21E-05	0.000671427
<i>Samd9l</i>	chr6:3322256-3349571	1.71364	3.67473	1.10057	-2.90887	0.00362737	0.0485396
<i>Trmt5</i>	chr12:74381396-74387698	8.63996	18.5192	1.09993	-3.44529	0.000570453	0.0137562
<i>Mettl3</i>	chr14:52881433-52924799	5.42159	11.5916	1.09629	-3.04421	0.00233293	0.0363728
<i>Spag9</i>	chr11:93857404-93987396	1.70328	3.57478	1.06953	-8.23856	2.22E-16	1.03E-13
<i>Strn3</i>	chr12:52709527-52839926	3.87415	8.10259	1.0645	-3.60534	0.000311746	0.00871609
<i>Ly6a</i>	chr15:74825306-74828461	73.2699	152.369	1.05628	-7.78631	6.88E-15	2.85E-12
<i>Gtf2e1</i>	chr16:37509881-37539855	5.75755	11.881	1.04514	-3.64114	0.000271432	0.00781548
<i>Apbb1</i>	chr7:112706978-112730167	2.40576	4.95914	1.0436	-3.37061	0.000750022	0.0163436
<i>Mis12</i>	chr11:70833112-70840636	5.04795	10.4017	1.04305	-3.27456	0.00105827	0.0209751

<i>Cadps2</i>	chr6:23212773-23789421	2.32344	4.74508	1.03017	-3.18391	0.00145298	0.0261738
<i>Sgsm3</i>	chr15:80808194-81021187	5.00789	10.0667	1.00731	-3.27111	0.00107126	0.0210881
<i>Srsf5</i>	chr12:82046490-82051494	12.0251	24.1499	1.00597	-5.71012	1.13E-08	1.59E-06
<i>Lbp</i>	chr2:158132228-158158588	22.7376	45.2702	0.993481	-5.69275	1.25E-08	1.74E-06
<i>Copz1</i>	chr15:103103348-103130295	58.0739	115.489	0.991797	-6.90868	4.89E-12	1.32E-09
<i>Ino80</i>	chr2:119198778-119303365	2.58771	5.08949	0.975843	-3.3249	0.000884491	0.0181847
<i>Usp20</i>	chr2:30837798-30878175	3.84749	7.50816	0.964543	-3.22997	0.00123803	0.0233391
<i>Pon3</i>	chr6:5170851-5206233	14.3677	28.0288	0.964083	-3.86916	0.000109212	0.00400042
<i>Lsg1</i>	chr16:30561454-30587675	7.63997	14.8023	0.95418	-3.28141	0.00103289	0.0205424
<i>Phf15</i>	chr11:51626957-51670983	4.01728	7.72501	0.943319	-3.82732	0.000129549	0.00453029
<i>Brd9</i>	chr13:74075285-74098343	10.9541	20.9783	0.937425	-3.83647	0.000124816	0.00442308
<i>Vldlr</i>	chr19:27291509-27328721	2.28101	4.3641	0.936012	-4.94769	7.51E-07	6.39E-05
<i>Zkscan6</i>	chr11:65620745-65642741	7.31736	13.9291	0.928702	-3.1133	0.00185006	0.0306359
<i>Rbm8a</i>	chr3:96433850-96437714	4.29888	8.1681	0.926041	-3.54403	0.000394059	0.0102962
<i>Als2cl</i>	chr9:110782677-110803034	4.26292	8.06054	0.919037	-3.74067	0.000183528	0.00586832
<i>Adpgk</i>	chr9:59139378-59164007	7.33456	13.8368	0.915728	-3.18456	0.00144973	0.0261738
<i>Alas2</i>	chrX:146981959-147005165	7.95267	14.9502	0.910648	-2.95312	0.00314578	0.0437721
<i>Selp</i>	chr1:166045394-166150405	12.9048	24.1607	0.904757	-4.6634	3.11E-06	0.000219523
<i>Trpm7</i>	chr2:126617293-126701997	2.66541	4.98572	0.903443	-4.9813	6.32E-07	5.50E-05
<i>Elovl6</i>	chr3:129235303-129341411	4.38611	8.14477	0.892932	-3.70716	0.000209598	0.00645016
<i>Kntc1</i>	chr5:124199734-124271602	4.08646	7.58308	0.891932	-3.84283	0.000121622	0.00435844
<i>Trip4</i>	chr9:65676732-65756601	1.44575	2.67829	0.889492	-3.60988	0.000306341	0.00858995
<i>Ibtk</i>	chr9:85580966-85642941	4.96566	9.18408	0.88715	-3.79941	0.000145044	0.00492341
<i>Sall2</i>	chr14:52930851-52948345	3.82495	7.05243	0.882679	-3.1245	0.0017811	0.0298354
<i>Asb8</i>	chr15:97965070-97996009	17.5936	32.3781	0.879965	-8.97905	0	0
<i>lfi35</i>	chr11:101309725-101320015	19.3934	35.6716	0.879211	-3.49502	0.000474028	0.011954
<i>Rnf185</i>	chr11:3315985-3352328	11.7611	21.6118	0.877796	-4.00308	6.25E-05	0.00261126
<i>Leprel2</i>	chr6:124791112-124807705	6.22115	11.3983	0.873565	-2.98334	0.00285117	0.0413563
<i>Aptx</i>	chr4:40629110-40650220	2.14262	3.9244	0.873094	-3.15717	0.00159309	0.0277024
<i>Polr3k</i>	chr2:181599064-181605531	13.9549	25.3199	0.859496	-4.24798	2.16E-05	0.00106703
<i>Nfatc3</i>	chr8:108583502-108654437	4.45517	8.04784	0.853122	-3.57407	0.000351479	0.00955017
<i>Crat</i>	chr2:30247935-30271268	7.43291	13.3414	0.843914	-3.82437	0.000131108	0.00455727
<i>Ctla2a</i>	chr13:61035515-61037986	49.2978	88.4839	0.843891	-5.21995	1.79E-07	1.91E-05
<i>1110008L16Rik</i>	chr12:56381800-56483478	7.02131	12.5364	0.836316	-3.14523	0.00165955	0.0284583
<i>Mtpap</i>	chr18:4375589-4397328	12.264	21.7839	0.828839	-3.7067	0.000209981	0.00645016
<i>Tvp23b</i>	chr11:62692991-62708686	13.128	23.3041	0.827933	-3.12908	0.00175353	0.0295876
<i>Zfp120</i>	chr2:149940142-149962414	3.42131	6.05732	0.824129	-5.13565	2.81E-07	2.76E-05
<i>Stip1</i>	chr19:7095185-7114516	26.074	45.9507	0.817475	-4.58923	4.45E-06	0.000290927
<i>Tfr2</i>	chr5:138011078-138028709	41.4603	72.8161	0.812528	-6.2312	4.63E-10	8.50E-08
<i>Rars2</i>	chr4:34562206-34607416	11.0412	19.359	0.810102	-2.91704	0.00353374	0.0476725
<i>Retnlg</i>	chr16:48872720-48874611	47.5809	82.9175	0.801293	-3.01336	0.00258376	0.0391453
<i>Sdhd</i>	chr9:50404444-50411954	38.6708	67.273	0.798782	-4.12257	3.75E-05	0.0016875
<i>Hbb-b1</i>	chr7:110961041-110962437	317.012	551.471	0.798749	-6.64102	3.12E-11	7.51E-09
<i>Arfgap3</i>	chr15:83130169-83180677	10.6336	18.4864	0.797825	-3.32687	0.000878263	0.018121

<i>Echdc1</i>	chr10:29032971-29082248	6.97768	12.1047	0.79475	-3.00478	0.0026577	0.0394396
<i>Hba-a2</i>	chr11:32196491-32197310	548.191	946.167	0.787416	-7.50821	6.00E-14	2.04E-11
<i>Skp1a</i>	chr11:52045496-52060360	23.7084	40.9124	0.787139	-3.50426	0.00045788	0.0116739
<i>Asx1</i>	chr2:153171874-153229743	8.89777	15.3083	0.782798	-4.57946	4.66E-06	0.000302217
<i>Uqcc</i>	chr2:155672621-155756046	11.6026	19.9594	0.782621	-3.52637	0.000421302	0.0108852
<i>Gpr125</i>	chr5:50351189-50450235	8.26664	14.2147	0.782007	-3.71884	0.000200138	0.0062442
<i>Smcr8</i>	chr11:60591026-60601789	3.05225	5.24481	0.781021	-3.03886	0.00237478	0.036798
<i>8430427H17Rik</i>	chr2:153233196-153355707	2.53957	4.36315	0.780786	-3.29966	0.000968007	0.0195544
<i>Rogdi</i>	chr16:5008821-5013646	26.5138	45.3667	0.774888	-3.53907	0.000401537	0.010468
<i>Fyn</i>	chr10:39089604-39285180	10.0847	17.2234	0.772196	-9.25996	0	0
<i>Mecom</i>	chr3:29850217-29912126	6.6968	11.4103	0.768789	-3.32717	0.000877315	0.018121
<i>Rpl29</i>	chr9:106331869-106333898	827.635	1406.43	0.764969	-9.13523	0	0
<i>Eif2ak4</i>	chr2:118214352-118300970	4.83155	8.20379	0.763805	-3.1304	0.00174571	0.0294986
<i>Pycl</i>	chr15:75746892-75751990	36.33	61.5118	0.759702	-3.90046	9.60E-05	0.00364366
<i>Rsrc2</i>	chr5:124178438-124199421	16.8629	28.5245	0.758344	-3.87216	0.000107873	0.00396392
<i>Armc8</i>	chr9:99356661-99469318	6.50737	11.0046	0.757954	-3.48717	0.000488157	0.0122569
<i>Polr2g</i>	chr19:8867618-8873047	43.4263	73.3343	0.75592	-3.34276	0.000829502	0.017521
<i>Pum1</i>	chr4:130219273-130337479	4.80898	8.11409	0.7547	-4.04182	5.30E-05	0.0022406
<i>Beta-s</i>	chr7:110975036-110976442	1071.47	1806.88	0.753906	-9.21013	0	0
<i>Sf3a3</i>	chr4:124392104-124409666	22.0792	37.1468	0.750547	-3.48024	0.000500965	0.0124435
<i>Psmc2</i>	chr5:21291100-21309602	28.952	48.6561	0.74896	-3.99145	6.57E-05	0.00269552
<i>Slc25a19</i>	chr11:115475494-115489609	7.49733	12.5916	0.748011	-4.63914	3.50E-06	0.000238212
<i>Pno1</i>	chr11:17103202-17111592	33.2521	55.8037	0.746913	-3.9634	7.39E-05	0.00297944
<i>Dctn3</i>	chr4:41661829-41670195	28.8052	48.3292	0.746568	-2.93521	0.00333319	0.0456657
<i>Gtf2h2</i>	chr13:101238531-101262564	19.7787	33.033	0.739959	-3.28207	0.00103048	0.0205345
<i>Padi4</i>	chr4:140301422-140330118	18.6466	31.1005	0.738029	-3.90641	9.37E-05	0.00356678
<i>Prepl</i>	chr17:85427686-85489614	4.58122	7.63923	0.737694	-6.55725	5.48E-11	1.22E-08
<i>Trim25</i>	chr11:88860716-88881607	8.40554	13.9708	0.732999	-3.85162	0.000117337	0.00423109
<i>Igj</i>	chr5:88948833-88956922	369.354	613.737	0.732618	-9.77237	0	0
<i>L3mbtl2</i>	chr15:81494365-81527717	11.176	18.5642	0.732113	-3.50168	0.000462342	0.0117498
<i>Cep250</i>	chr2:155782293-155824636	4.8487	8.04115	0.729802	-4.09177	4.28E-05	0.001877
<i>Wdr11</i>	chr7:136735376-136779252	6.49114	10.765	0.729802	-3.14853	0.00164092	0.0282643
<i>Rrbp1</i>	chr2:143773130-143836999	16.8475	27.9374	0.729664	-4.95705	7.16E-07	6.14E-05
<i>Ggta1</i>	chr2:35255698-35316945	5.30244	8.78278	0.728022	-3.9325	8.41E-05	0.00330985
<i>Haus3,Poln</i>	chr5:34349846-34512097	14.3768	23.7416	0.723674	-2.97674	0.00291334	0.0420054
<i>Mfap3</i>	chr11:57332166-57347319	8.5475	14.1018	0.722303	-3.69116	0.000223233	0.0067053
<i>Dhfr</i>	chr13:92981835-93159008	9.52128	15.7043	0.721934	-3.89948	9.64E-05	0.00364656
<i>Fam111a</i>	chr19:12648014-12671056	22.6787	37.3698	0.720534	-4.50041	6.78E-06	0.000413179
<i>Ppp2r5e</i>	chr12:76551867-76697187	6.91656	11.3966	0.720474	-3.26591	0.00109114	0.0212626
<i>Ddx19b</i>	chr8:113527085-113555651	4.12027	6.78106	0.718772	-3.00795	0.00263012	0.0393329
<i>Pdpk1</i>	chr17:24210646-24278561	3.70118	6.08204	0.716572	-2.96204	0.00305612	0.0432068
<i>Med14</i>	chrX:12252496-12339099	4.08552	6.70153	0.713973	-3.0646	0.00217958	0.0346548
<i>Uba7</i>	chr9:107877897-107886387	35.8181	58.6764	0.712089	-5.30413	1.13E-07	1.27E-05
<i>Prps1</i>	chrX:136991141-137010679	33.2353	54.3443	0.709414	-4.18443	2.86E-05	0.00136178

<i>Ubtf</i>	chr11:102165873-102180410	23.4847	38.3968	0.709264	-8.43662	0	0
<i>Ncoa7</i>	chr10:30365387-30522913	8.27923	13.5287	0.708449	-3.00521	0.00265395	0.0394396
<i>Mtmr1</i>	chrX:68617934-68672371	5.98624	9.76842	0.706474	-2.95804	0.00309602	0.0433232
<i>Stxbp4</i>	chr11:90337806-90499422	6.33487	10.3323	0.705778	-3.40244	0.000667868	0.0152016
<i>Ddi2,Rsc1a1</i>	chr4:141239477-141279334	6.92514	11.285	0.704495	-3.07755	0.00208712	0.0336468
<i>Gtf2b</i>	chr3:142428210-142446569	35.2592	57.4139	0.703401	-3.42381	0.000617506	0.0145691
<i>Hba-a2</i>	chr11:32183674-32184493	433.957	706.42	0.702973	-6.15678	7.42E-10	1.21E-07
<i>Acaca</i>	chr11:84008939-84215153	4.01814	6.52925	0.700392	-3.32102	0.000896876	0.0183983
<i>Mast2</i>	chr4:115979366-116136788	6.41811	10.4263	0.700011	-3.9605	7.48E-05	0.00298524
<i>Hnrnp2</i>	chrX:131135824-131141593	21.9834	35.6708	0.698325	-3.75429	0.000173832	0.00571622
<i>Lars</i>	chr18:42362002-42421725	20.6715	33.4386	0.693868	-4.49085	7.09E-06	0.000428862
<i>Mical2</i>	chr5:140182646-140212287	9.2812	15.0096	0.693501	-3.02675	0.00247198	0.0378982
<i>Pnp</i>	chr14:51563977-51573087	70.094	113.265	0.692338	-6.39704	1.58E-10	3.40E-08
<i>Ctla2b</i>	chr13:60996711-60998808	22.2159	35.8832	0.691715	-3.44745	0.000565899	0.0136749
<i>Zfp426</i>	chr9:20272992-20297190	5.03067	8.12003	0.690735	-3.39638	0.000682837	0.0154246
<i>Snx14</i>	chr9:88271584-88333789	11.4094	18.4009	0.689563	-3.17946	0.00147548	0.0262308
<i>Bcat2</i>	chr7:52823164-52845080	26.4823	42.6972	0.689117	-7.28169	3.30E-13	1.06E-10
<i>Ndufc2</i>	chr7:104548512-104556310	60.5542	97.6079	0.688771	-3.04877	0.00229777	0.0361016
<i>Cdv3</i>	chr9:103255431-103268110	16.6206	26.7858	0.688498	-3.8362	0.000124954	0.00442308
<i>Kdm1a</i>	chr4:136106447-136158638	10.2493	16.4818	0.685346	-2.97527	0.00292731	0.0420054
<i>Zfp280c</i>	chrX:45894802-45947629	2.74754	4.41742	0.68506	-3.28966	0.00100309	0.0201226
<i>Phf5a</i>	chr15:81694945-81702322	27.6923	44.4399	0.682369	-3.42066	0.000624697	0.0146374
<i>Ptpn11</i>	chr5:121580541-121641406	8.40985	13.4944	0.68221	-3.58105	0.000342222	0.00943531
<i>6330416G13Rik</i>	chr4:63221393-63247387	9.6359	15.4612	0.682156	-3.12536	0.00177585	0.0297905
<i>Naprt1</i>	chr15:75721393-75724911	19.1977	30.7759	0.680871	-3.11704	0.00182675	0.0303802
<i>Gtpbp5</i>	chr2:179805297-179820607	7.01728	11.2472	0.680581	-2.99477	0.00274656	0.0402933
<i>Pygm</i>	chr19:6384428-6398459	13.058	20.9133	0.679488	-3.18265	0.00145932	0.0261738
<i>Th1l</i>	chr2:174241304-174264493	26.8088	42.9066	0.678492	-3.89561	9.80E-05	0.00369308
<i>Atp11c</i>	chrX:57476466-57657156	2.04245	3.26727	0.677789	-3.40079	0.000671922	0.0152202
<i>Tubb6</i>	chr18:67550384-67562403	36.8097	58.7093	0.673504	-3.90771	9.32E-05	0.00355937
<i>Ivd</i>	chr2:118687735-118707093	23.2794	36.9969	0.668347	-3.45473	0.000550841	0.0133668
<i>Heatr1</i>	chr13:12487641-12531160	8.15143	12.9456	0.667332	-3.74548	0.000180049	0.00578909
<i>A130010J15Rik</i>	chr1:194999662-195027740	6.64816	10.5552	0.66693	-3.30061	0.00096476	0.0195229
<i>Golph3l</i>	chr3:95392855-95423169	14.7028	23.3435	0.666927	-4.98834	6.09E-07	5.34E-05
<i>Uso1</i>	chr5:92566963-92631821	10.0543	15.9407	0.664898	-3.20653	0.00134345	0.0246833
<i>Ncf4</i>	chr15:78075240-78093010	52.7585	83.512	0.662578	-4.08631	4.38E-05	0.0019144
<i>Fastkd3</i>	chr13:68721124-68731156	15.2222	24.0647	0.660744	-3.02974	0.0024476	0.0376899
<i>Bend5</i>	chr4:110070395-111330115	4.78136	7.55698	0.660389	-2.97318	0.00294735	0.042118
<i>Safb</i>	chr17:56724404-56745717	18.4698	29.175	0.65956	-3.76045	0.000169611	0.00564152
<i>Mdp1</i>	chr14:56276715-56279345	16.6722	26.3329	0.659419	-2.95754	0.00310109	0.0433232
<i>Nif3l1</i>	chr1:58504476-58519120	20.0181	31.5709	0.657292	-3.20848	0.00133438	0.0246733
<i>Morf4l2</i>	chrX:133267489-133337900	70.374	110.788	0.654691	-6.46887	9.87E-11	2.16E-08
<i>Prosc</i>	chr8:28153026-28166604	17.3096	27.2424	0.65428	-3.82861	0.00012887	0.00452022
<i>Anapc1</i>	chr2:128435818-128513131	15.5865	24.501	0.652544	-5.31779	1.05E-07	1.20E-05

<i>Rnf13</i>	chr3:57539987-57639155	17.9619	28.2254	0.652055	-3.42651	0.000611401	0.0145225
<i>Pard6a</i>	chr8:108225053-108227394	8.1013	12.7048	0.649151	-2.90402	0.0036841	0.049052
<i>Rnf187</i>	chr11:58745789-58752408	46.735	73.1111	0.645588	-4.31525	1.59E-05	0.000846468
<i>Kdelc1</i>	chr1:44163390-44175618	17.7156	27.6907	0.644387	-3.1257	0.0017738	0.0297905
<i>Pdia6</i>	chr12:17273400-17331536	98.4859	153.875	0.643766	-5.92034	3.21E-09	4.96E-07
<i>Poldip3</i>	chr15:82956407-82979766	25.8896	40.3927	0.641726	-4.23223	2.31E-05	0.00112645
<i>Lipa</i>	chr19:34566805-34601964	13.8515	21.597	0.640792	-3.33422	0.000855382	0.0178719
<i>Npc1</i>	chr18:12327238-12394895	8.2316	12.8223	0.639408	-3.20801	0.00133657	0.0246744
<i>Ppp1r7</i>	chr1:95240221-95264195	9.59274	14.9358	0.638757	-2.93295	0.00335755	0.0458298
<i>Ppp1cb</i>	chr5:32761342-32796085	35.5926	55.3507	0.637022	-5.18633	2.14E-07	2.21E-05
<i>Cdca5</i>	chr19:6085096-6091773	37.4782	58.2545	0.636318	-3.84943	0.000118392	0.00425585
<i>Snap23</i>	chr2:120393406-120426458	16.5955	25.7787	0.635393	-4.76564	1.88E-06	0.00013968
<i>Edem1</i>	chr6:108778634-108809350	6.99404	10.8592	0.634722	-3.14002	0.00168935	0.0289263
<i>Agtrap</i>	chr4:147451169-147462173	15.2764	23.7159	0.634553	-3.6998	0.000215772	0.00653725
<i>Psm12</i>	chr11:107340841-107359350	25.3518	39.3433	0.634031	-3.1125	0.00185512	0.0306757
<i>Cd48</i>	chr1:173612185-173635388	49.781	77.196	0.632931	-3.39009	0.00069869	0.0156731
<i>Hipk1</i>	chr3:103543737-103595198	7.96968	12.3276	0.629297	-3.76413	0.000167129	0.00557499
<i>Hsph1</i>	chr5:150419419-150438890	17.5302	27.0476	0.625662	-3.61353	0.000302055	0.00852754
<i>Pwp2</i>	chr10:77633654-77647894	16.6032	25.6028	0.624841	-3.69752	0.000217714	0.00656261
<i>Rpl7l1</i>	chr17:46910855-46919605	19.6845	30.3541	0.62483	-3.3372	0.000846275	0.0177779
<i>Nol9</i>	chr4:151413435-151435603	10.5215	16.2156	0.624039	-3.03181	0.00243094	0.0375175
<i>Tbc1d15</i>	chr10:114634926-114688549	13.189	20.3227	0.623758	-3.31456	0.000917875	0.0187379
<i>Glpr1</i>	chr10:111409750-111434320	55.858	86.0323	0.623115	-3.38567	0.000710051	0.0157477
<i>Glrx3</i>	chr7:144629330-144660277	23.6521	36.3676	0.620686	-2.89718	0.00376535	0.0498102
<i>Ak2</i>	chr4:128670467-128688773	38.457	59.0707	0.619198	-3.7556	0.00017293	0.00570275
<i>Jagn1</i>	chr6:113392510-113398223	72.6082	111.326	0.616585	-4.57674	4.72E-06	0.000303697
<i>Ap1g2</i>	chr14:55713620-55725430	22.283	34.1267	0.614954	-3.48725	0.00048801	0.0122569
<i>Uba3</i>	chr6:97133809-97155636	6.48055	9.91725	0.613824	-3.67384	0.000238931	0.00704532
<i>Mzb1</i>	chr18:35806918-35809021	92.997	142.085	0.611495	-3.77117	0.000162481	0.00543562
<i>Wars</i>	chr12:110098239-110132384	35.1604	53.7179	0.611453	-4.93686	7.94E-07	6.66E-05
<i>Pnrc2</i>	chr4:135426840-135429761	45.392	69.288	0.610167	-3.99268	6.53E-05	0.00269109
<i>Stt3a</i>	chr9:36539997-36575163	35.7622	54.5735	0.609766	-4.21606	2.49E-05	0.00119456
<i>Gmnn</i>	chr13:24843713-24853806	62.8082	95.8443	0.60974	-3.3123	0.000925307	0.0188292
<i>Polr1a</i>	chr6:71859046-71929355	6.79483	10.3636	0.60902	-3.02295	0.00250325	0.0383269
<i>Necap2</i>	chr4:140622426-140634260	35.3635	53.8975	0.607958	-3.58032	0.000343176	0.00943531
<i>Arhgdib</i>	chr6:136872229-136890238	171.207	260.842	0.607432	-5.20745	1.91E-07	2.00E-05
<i>Pafah1b1</i>	chr11:74487450-74537886	7.06949	10.7612	0.606157	-5.33116	9.76E-08	1.13E-05
<i>Morf4l1</i>	chr9:89986506-90009658	18.3034	27.8572	0.605935	-2.90812	0.00363613	0.0486007
<i>Creb1</i>	chr1:64579377-64651122	3.77868	5.74365	0.604087	-3.79754	0.000146139	0.00494607
<i>Wdr73</i>	chr7:88035608-88046155	30.9077	46.9562	0.60335	-4.56945	4.89E-06	0.000312718
<i>Atp6ap1</i>	chrX:71542435-71550060	23.3034	35.3995	0.603188	-3.1865	0.00144006	0.0260855
<i>Sec24b</i>	chr3:129686102-129763825	13.549	20.5573	0.601469	-3.55656	0.000375737	0.0100034
<i>Aifm1</i>	chrX:45828120-45866603	20.4993	31.0909	0.600922	-2.95046	0.00317299	0.0439849
<i>Smchd1</i>	chr17:71693833-71824683	7.96876	12.08	0.600196	-3.38755	0.000705189	0.0157275

<i>Psm1</i>	chr7:121408063-121419630	117.834	178.551	0.599581	-4.73765	2.16E-06	0.0001574
<i>Nubp2</i>	chr17:25019555-25023295	36.0635	54.5618	0.597353	-3.10413	0.00190837	0.0314664
<i>Sirt1</i>	chr10:62781752-62801783	3.30723	4.99944	0.596144	-3.33047	0.000866986	0.0180492
<i>Il2rg</i>	chrX:98459725-98463545	35.8575	54.1449	0.594551	-3.26405	0.00109833	0.0212951
<i>7-Sep</i>	chr9:25060039-25116156	48.2577	72.7198	0.591589	-4.56605	4.97E-06	0.000316091
<i>Txndc5</i>	chr13:38592143-38620329	64.9976	97.3751	0.583167	-4.99019	6.03E-07	5.33E-05
<i>Emg1</i>	chr6:124613121-124662196	113.482	169.704	0.58056	-4.12795	3.66E-05	0.00165493
<i>Cbr1</i>	chr16:93608081-93610594	72.5886	108.485	0.579681	-3.51761	0.000435455	0.0111513
<i>Jmjd1c</i>	chr10:66590005-66719074	3.14385	4.69783	0.579461	-4.16437	3.12E-05	0.00146312
<i>Usp25</i>	chr16:77014313-77117025	12.4384	18.5846	0.579303	-3.20083	0.00137032	0.0249802
<i>9030624J02Rik</i>	chr7:125883784-125985005	15.2698	22.7062	0.572405	-3.1526	0.00161823	0.0279567
<i>Bclaf1</i>	chr10:20032274-20062307	10.3813	15.4225	0.571055	-5.06511	4.08E-07	3.78E-05
<i>Spcs2</i>	chr7:106986078-107007393	35.5547	52.7951	0.570363	-4.00235	6.27E-05	0.00261126
<i>Gm6793,Hnrnpa3</i>	chr2:75497315-75507464	14.2568	21.1503	0.569027	-3.56536	0.000363363	0.00975853
<i>Lax1</i>	chr1:135575605-135586685	7.35992	10.9174	0.568862	-3.65051	0.000261725	0.00759265
<i>Tgtp2</i>	chr11:48798830-48805756	23.2927	34.5476	0.568713	-3.35148	0.000803807	0.0172297
<i>Api5</i>	chr2:94251883-94278304	41.167	60.89	0.564719	-4.67985	2.87E-06	0.000205124
<i>Skiv2l2</i>	chr13:113657987-113717588	14.753	21.8204	0.564668	-2.95699	0.00310654	0.0433232
<i>Oasl2</i>	chr5:115346942-115362254	23.1683	34.257	0.564245	-3.48572	0.000490817	0.0122704
<i>Ubb</i>	chr11:62365005-62366714	1854.48	2741.69	0.564052	-8.64808	0	0
<i>Lyz2</i>	chr10:116714596-116719328	381.837	563.681	0.561922	-6.16592	7.01E-10	1.19E-07
<i>Tpi1</i>	chr6:124758958-124764314	166.521	245.588	0.560538	-5.51597	3.47E-08	4.57E-06
<i>Edc3</i>	chr9:57556375-57597969	15.7057	23.152	0.559851	-3.01534	0.00256695	0.0389416
<i>Cpne1,Rbm12</i>	chr2:155897576-155937701	34.9015	51.3744	0.557759	-5.55427	2.79E-08	3.80E-06
<i>Mtor</i>	chr4:147822690-147931794	6.66099	9.78842	0.555338	-3.15547	0.00160238	0.0277657
<i>Fam214a</i>	chr9:74800859-74880275	4.42846	6.50632	0.555036	-2.95732	0.00310325	0.0433232
<i>Vwa9</i>	chr9:64808638-64834781	14.2076	20.8457	0.55309	-3.05986	0.00221442	0.0351122
<i>Mfn2</i>	chr4:147247703-147278928	13.8267	20.2722	0.552042	-3.1793	0.0014763	0.0262308
<i>Cope</i>	chr8:72826683-72836889	164.068	240.541	0.551987	-4.51077	6.46E-06	0.000395595
<i>Med22</i>	chr2:26760786-26766162	29.9874	43.927	0.550749	-4.44059	8.97E-06	0.000511547
<i>Hectd1</i>	chr12:52844708-52930523	7.35855	10.7742	0.550088	-3.30917	0.000935739	0.0190021
<i>Elp3</i>	chr14:66149282-66211949	29.717	43.5068	0.549954	-6.85491	7.14E-12	1.84E-09
<i>Whsc1</i>	chr5:34185760-34240615	10.2364	14.9715	0.548506	-4.23922	2.24E-05	0.00110481
<i>0610009D07Rik</i>	chr12:4824413-4834465	119.441	174.653	0.548194	-4.11357	3.90E-05	0.00173786
<i>Brca2</i>	chr5:151325197-151372324	2.05508	3.00472	0.548037	-3.17818	0.00148203	0.0262544
<i>Bcap31</i>	chrX:70931521-70961514	68.5289	100.15	0.547371	-3.421	0.000623916	0.0146374
<i>Hsbp1</i>	chr8:121868437-121872829	65.8976	95.5868	0.536585	-3.23479	0.00121731	0.0230236
<i>Fkbp2</i>	chr19:7052228-7054951	46.5914	67.5203	0.53526	-2.9988	0.00271045	0.0399153
<i>Lgals9</i>	chr11:78776480-78798426	279.823	405.307	0.5345	-6.20517	5.46E-10	9.88E-08
<i>Apobec1</i>	chr6:122527809-122552462	9.9425	14.3961	0.533992	-3.21091	0.00132316	0.0245049
<i>Prim1</i>	chr10:127452270-127467086	46.3936	67.0716	0.531777	-3.15618	0.00159853	0.0277406
<i>Clpb</i>	chr7:108812281-108938682	14.8704	21.498	0.531757	-3.18516	0.00144676	0.026166
<i>Top2b</i>	chr14:17197719-17263301	13.8172	19.9734	0.531614	-3.40427	0.0006634	0.015174
<i>Isg20</i>	chr7:86058650-86065282	42.0386	60.6675	0.529211	-4.60709	4.08E-06	0.000272767

<i>Trip12</i>	chr1:84717763-84835879	8.08905	11.6693	0.528678	-3.40376	0.00066464	0.015174
<i>Erh</i>	chr12:81735009-81744848	86.7964	125.065	0.526968	-2.9637	0.00303967	0.0431179
<i>Top2a</i>	chr11:98854260-98885503	31.3069	45.0913	0.52637	-4.47695	7.57E-06	0.000451757
<i>Suz12</i>	chr11:79806607-79847625	13.2732	19.117	0.526339	-3.92916	8.52E-05	0.00334474
<i>Hnrnpm</i>	chr17:33783177-33822403	96.1193	138.243	0.52431	-6.91499	4.68E-12	1.29E-09
<i>Zfp322a</i>	chr13:23444972-23461071	3.0738	4.4199	0.52399	-3.56754	0.000360349	0.00974541
<i>Cyp51</i>	chr5:4080673-4104697	13.045	18.7552	0.5238	-2.9287	0.00340386	0.0462804
<i>Ppp2ca</i>	chr11:51912325-51936251	43.411	62.2139	0.519177	-3.32789	0.000875069	0.018121
<i>Chst12</i>	chr5:140981562-141001192	54.5528	78.0236	0.516258	-3.50618	0.000454585	0.0116155
<i>Myo1f</i>	chr17:33692651-33744709	23.2074	33.1881	0.516084	-3.45659	0.000547049	0.0133307
<i>Sdha</i>	chr13:74459702-74487688	93.4194	133.594	0.516064	-5.15773	2.50E-07	2.52E-05
<i>Clptm1l</i>	chr13:73741449-73758087	33.54	47.9405	0.515364	-3.26597	0.00109092	0.0212626
<i>Oxr1</i>	chr15:41279027-41692593	21.915	31.2807	0.513355	-3.70162	0.000214224	0.00653725
<i>C2cd3</i>	chr7:107520742-107618668	9.36164	13.3349	0.510376	-3.18235	0.00146085	0.0261738
<i>Adsl</i>	chr15:80778919-80801377	48.9798	69.6832	0.508622	-4.45619	8.34E-06	0.000485264
<i>Cux1</i>	chr5:136724004-137043301	38.8149	55.1526	0.50682	-3.74872	0.000177743	0.00577913
<i>Capza1</i>	chr3:104625702-104667423	60.2901	85.6535	0.506591	-4.53535	5.75E-06	0.000359817
<i>Cul7</i>	chr17:46787286-46801313	14.7415	20.8914	0.503025	-3.27246	0.00106615	0.0210591
<i>Nup205</i>	chr6:35127615-35197598	12.7845	18.1087	0.502287	-3.23911	0.00119905	0.0227899
<i>Magt1</i>	chrX:103163423-103207238	11.5636	16.3621	0.500763	-5.31456	1.07E-07	1.21E-05
<i>Eif3a</i>	chr19:60837018-60866596	29.2179	41.3287	0.500293	-4.13369	3.57E-05	0.00162068
<i>Eif2s2</i>	chr2:154697145-154718642	35.8067	50.6209	0.499502	-3.32735	0.000876752	0.018121
<i>Ctage5</i>	chr12:60230732-60291207	4.13208	5.83883	0.498809	-2.90369	0.00368798	0.049052
<i>Srp68</i>	chr11:116106479-116135531	36.7916	51.9489	0.497718	-3.36096	0.000776714	0.0167109
<i>Iqgap2</i>	chr13:96397131-96661877	13.7833	19.4524	0.497032	-3.20504	0.00135043	0.0247576
<i>Chi3l3</i>	chr3:105950471-105970482	82.5631	116.514	0.496938	-3.72001	0.000199217	0.00623682
<i>Psmb5</i>	chr14:55232956-55236832	93.2494	131.375	0.494528	-2.96463	0.0030305	0.0430405
<i>Mbnl2</i>	chr14:120674890-120830920	6.96299	9.80617	0.493983	-2.9582	0.00309437	0.0433232
<i>Fgd2</i>	chr17:29497858-29516480	28.1599	39.6055	0.492062	-4.82321	1.41E-06	0.000110486
<i>Mir704,Pdia4</i>	chr6:47746139-47763511	29.1892	41.0334	0.491366	-2.99012	0.00278866	0.0406021
<i>Cdc23</i>	chr18:34758268-34811390	18.3029	25.7217	0.490913	-3.04397	0.00233477	0.0363728
<i>Ifi203</i>	chr1:175850533-175872623	19.5153	27.3596	0.487446	-3.89371	9.87E-05	0.00371014
<i>Huwe1</i>	chrX:148237824-148369961	5.42303	7.59928	0.486764	-3.1506	0.00162934	0.0281067
<i>Phgdh</i>	chr3:98117093-98143892	95.0107	133.072	0.486046	-4.15233	3.29E-05	0.00152988
<i>3110001l22Rik,Bfar</i>	chr16:13671950-13703705	25.0524	35.0772	0.485581	-2.97664	0.00291428	0.0420054
<i>Cln3</i>	chr8:63389185-63462108	3.97808	5.56769	0.485007	-3.35043	0.000806856	0.0172609
<i>Pfkm</i>	chr15:97869174-97962878	25.14	35.1855	0.484997	-3.57561	0.000349413	0.0095388
<i>Cirh1a</i>	chr8:109417539-109446994	33.9946	47.538	0.483776	-3.00152	0.00268638	0.0397633
<i>Csf3r</i>	chr4:125701902-125722219	32.8291	45.8353	0.481485	-5.20873	1.90E-07	2.00E-05
<i>Ltbp3</i>	chr19:5740903-5771401	20.5909	28.7436	0.481233	-3.48219	0.000497326	0.0124063
<i>Cd27</i>	chr6:125174229-125189952	138.649	193.498	0.480876	-4.44836	8.65E-06	0.000498293
<i>Flii</i>	chr11:60513191-60540723	44.1367	61.4087	0.476464	-4.14369	3.42E-05	0.0015684
<i>G6pdx</i>	chrX:71638629-71699117	47.8295	66.5255	0.476006	-3.60975	0.000306492	0.00858995
<i>Gm6682</i>	chr12:4788975-4790318	465.986	645.743	0.470672	-5.83081	5.52E-09	8.29E-07

<i>Aimp2</i>	chr5:144578660-144670708	94.2645	130.459	0.468815	-3.97057	7.17E-05	0.00290182
<i>Sipi</i>	chr2:164179805-164182243	178.63	247.063	0.467907	-3.63787	0.000274902	0.00789577
<i>Mthfr</i>	chr4:147413185-147433671	4.24276	5.86746	0.467733	-3.23638	0.00121057	0.0229335
<i>Acox1</i>	chr11:116033196-116076632	26.139	36.1338	0.467144	-3.71533	0.000202938	0.00631453
<i>Mtmr9</i>	chr14:64142446-64162790	53.4019	73.8035	0.466798	-3.56626	0.000362118	0.00975853
<i>Tmed5</i>	chr5:108550665-108561610	20.5488	28.3628	0.464949	-2.92916	0.00339874	0.0462804
<i>Aldh18a1</i>	chr19:40624746-40662953	34.0347	46.9574	0.464348	-4.34838	1.37E-05	0.000752366
<i>Plac8</i>	chr5:100982751-101001224	788.977	1087.84	0.463415	-5.33611	9.50E-08	1.11E-05
<i>Tgtp2</i>	chr11:48851161-48948889	35.263	48.4967	0.459731	-3.18192	0.00146302	0.0261738
<i>Maged2</i>	chrX:147240963-147248882	14.6363	20.1113	0.458454	-3.85983	0.000113465	0.00411713
<i>Nnt</i>	chr13:120123123-120197945	37.8795	52.0289	0.457893	-3.57844	0.000345653	0.00945846
<i>Psm2</i>	chr16:20651724-20663487	37.3628	51.3132	0.457728	-3.36545	0.000764178	0.0164718
<i>Ttc3</i>	chr16:94580369-94690828	11.09	15.2183	0.456552	-2.95806	0.00309584	0.0433232
<i>Sdcbp</i>	chr4:6292826-6323269	119.2	163.387	0.454911	-7.52236	5.37E-14	1.88E-11
<i>2700094K13Rik</i>	chr2:84509377-84510865	203.263	278.606	0.45488	-4.34107	1.42E-05	0.000763361
<i>Ddx24</i>	chr12:104646185-104664077	46.3517	63.5213	0.454619	-3.58328	0.000339307	0.00939589
<i>Sepr1</i>	chr4:134093806-134108081	36.7802	50.3945	0.454336	-3.47676	0.000507518	0.0125793
<i>Cyfip1</i>	chr7:63097440-63217863	23.1589	31.7173	0.453704	-3.75338	0.000174465	0.00572076
<i>Adnp</i>	chr2:168006464-168032562	23.156	31.6908	0.452676	-3.34002	0.000837715	0.0176622
<i>Ngp</i>	chr9:110322311-110325516	189.042	258.435	0.451095	-4.05116	5.10E-05	0.00216877
<i>Rbmx1</i>	chr8:81029167-81032827	165.337	225.998	0.450899	-10.7653	0	0
<i>Mrps25</i>	chr6:92041411-92134017	19.5681	26.7421	0.450604	-3.37398	0.000740902	0.0162423
<i>Ppil2</i>	chr16:17070403-17111345	24.1365	32.9813	0.45043	-3.87794	0.000105345	0.00389576
<i>Usp1</i>	chr5:149996135-150027010	12.6296	17.243	0.4492	-4.13365	3.57E-05	0.00162068
<i>Tmed7</i>	chr18:46745581-46757189	25.7642	35.1732	0.449106	-2.98676	0.0028195	0.0409996
<i>Amd1</i>	chr10:40007263-40021994	39.6684	54.1489	0.448942	-3.42769	0.000608739	0.0144982
<i>Abcc4</i>	chr14:118881913-119105441	10.9759	14.9785	0.448558	-3.25268	0.00114323	0.0218883
<i>Scd2</i>	chr19:44368165-44381352	72.9412	99.4457	0.447176	-5.0711	3.96E-07	3.69E-05
<i>Smad3</i>	chr9:63494573-63605801	18.0284	24.5766	0.447013	-3.02685	0.00247112	0.0378982
<i>Stk4</i>	chr2:16389913-163981257	30.176	41.1304	0.446805	-3.72731	0.000193531	0.00612054
<i>Tardbp</i>	chr4:147976652-148001105	20.9859	28.6038	0.446783	-4.65556	3.23E-06	0.000226657
<i>Dapp1</i>	chr3:137593969-137644513	147.627	201.132	0.446194	-5.21856	1.80E-07	1.91E-05
<i>Psm2</i>	chr13:14705508-14717940	111.891	152.428	0.44604	-2.99178	0.00277358	0.0404335
<i>Abcf2</i>	chr5:24071158-24083285	46.0544	62.694	0.444986	-3.70034	0.000215307	0.00653725
<i>Hspa8</i>	chr9:40609355-40613282	766.962	1043.15	0.443723	-6.6066	3.93E-11	9.29E-09
<i>Sh2d3c</i>	chr2:32576574-32610527	26.7996	36.2934	0.437496	-3.55046	0.000384554	0.0101394
<i>Dkc1</i>	chrX:72341192-72376288	45.9764	62.1517	0.434898	-3.3315	0.000863787	0.018015
<i>Sel1l</i>	chr12:93044482-93087597	15.6427	21.1458	0.434883	-4.29824	1.72E-05	0.000897632
<i>Cd97</i>	chr8:86239075-86265210	27.6198	37.3316	0.434694	-6.16426	7.08E-10	1.19E-07
<i>Hmgn2</i>	chr4:133520653-133523906	322.328	435.05	0.432653	-4.73933	2.14E-06	0.000157084
<i>Psm6</i>	chr11:70338858-70341360	153.509	207.101	0.432017	-3.41832	0.000630081	0.0147337
<i>Abr</i>	chr11:76230235-76391229	20.8785	28.1398	0.430595	-3.09197	0.00198835	0.0324613
<i>Mapre1</i>	chr2:153567022-153599050	20.1958	27.2188	0.430546	-3.52566	0.000422428	0.01089
<i>Psm1</i>	chr1:87961193-88035870	90.5085	121.895	0.42951	-4.42211	9.77E-06	0.000546554

<i>Cmip</i>	chr8:119780918-119985405	15.9057	21.42	0.429412	-6.18287	6.29E-10	1.12E-07
<i>Acbd5</i>	chr2:22923720-22970032	4.09855	5.51881	0.429244	-3.07812	0.00208308	0.0336286
<i>Hn1l</i>	chr17:25079414-25097568	52.3025	70.424	0.429188	-3.34527	0.000822013	0.0174584
<i>Vrk3</i>	chr7:52003998-52032884	69.5618	93.6416	0.428855	-3.16027	0.00157622	0.02757
<i>Nol11</i>	chr11:107027974-107050695	21.7874	29.3241	0.428594	-3.23398	0.00122079	0.0230517
<i>Gle1</i>	chr2:29790928-29814952	32.8112	44.1287	0.427528	-2.98483	0.00283736	0.0412077
<i>Etnk1</i>	chr6:143115749-143157066	21.1448	28.4314	0.427179	-3.38058	0.000723336	0.0159335
<i>Erb2ip</i>	chr13:104608865-104710594	6.87491	9.24132	0.426759	-4.66732	3.05E-06	0.000216694
<i>Dpp3</i>	chr19:4907228-4928287	57.1596	76.8104	0.426306	-3.4715	0.000517559	0.0127735
<i>Tgm2</i>	chr2:157942140-157972128	30.936	41.5378	0.425136	-3.07181	0.00212767	0.0340163
<i>Rpl17</i>	chr18:75160130-75163035	268.811	360.843	0.424782	-3.61548	0.000299796	0.00848446
<i>Prkag2</i>	chr5:24368552-24606460	19.9537	26.7839	0.424711	-5.27795	1.31E-07	1.44E-05
<i>Ctsa</i>	chr2:164656229-164683208	55.9564	75.0823	0.42417	-4.34316	1.40E-05	0.000759662
<i>O610031J06Rik</i>	chr3:88128944-88132553	69.1705	92.7481	0.423161	-2.93431	0.00334292	0.0457314
<i>Dnm1l</i>	chr16:16312320-16359124	12.4349	16.6715	0.422982	-6.90444	5.04E-12	1.33E-09
<i>Trub2</i>	chr2:29631630-29643191	27.0957	36.2476	0.419823	-3.17791	0.0014834	0.0262544
<i>S100a9</i>	chr3:90496554-90499613	685.353	915.681	0.417998	-3.92478	8.68E-05	0.00338325
<i>Hadh</i>	chr3:130936341-130974955	91.5684	122.267	0.417118	-3.38768	0.000704858	0.0157275
<i>Parvg</i>	chr15:84155149-84173408	97.1769	129.549	0.414807	-4.06265	4.85E-05	0.00207998
<i>Axin1</i>	chr17:26275630-26332756	15.6032	20.7984	0.414629	-4.86873	1.12E-06	9.03E-05
<i>Maged1</i>	chrX:91780812-91787413	39.5863	52.7445	0.414019	-2.96595	0.0030175	0.0429613
<i>Wbp1</i>	chr6:83069037-83071455	68.7627	91.5447	0.412851	-6.93831	3.97E-12	1.15E-09
<i>Calm2</i>	chr17:87832740-87846275	197.707	263.14	0.41247	-3.83167	0.000127276	0.00449153
<i>Eif1a</i>	chr18:46757357-46769879	47.8271	63.5442	0.409931	-3.21265	0.00131517	0.0244352
<i>Gtpbp4</i>	chr13:8971723-8995258	44.0672	58.5023	0.408788	-2.95292	0.00314779	0.0437721
<i>Fkbp5</i>	chr17:28536039-28623057	32.8084	43.5419	0.40834	-2.99958	0.00270352	0.039864
<i>Mrpl18</i>	chr17:13104220-13108957	160.995	213.563	0.407647	-3.15919	0.00158207	0.027579
<i>Trnt1</i>	chr6:106719131-106750081	16.4212	21.7709	0.406838	-3.67355	0.000239206	0.00704532
<i>2900097C17Rik</i>	chr2:156213798-156218715	29.6501	39.3091	0.406827	-3.28847	0.00100734	0.020173
<i>Galnt1</i>	chr18:24363844-24445317	26.3776	34.9	0.403915	-3.34701	0.000816873	0.0174131
<i>Capg</i>	chr6:72494384-72512977	105.319	139.331	0.403747	-3.0098	0.00261421	0.0392081
<i>Eif4a1</i>	chr11:69480437-69485925	80.9213	106.672	0.398588	-3.38562	0.000710177	0.0157477
<i>Yipf2</i>	chr9:21351337-21400414	24.1903	31.8616	0.397389	-3.4083	0.000653697	0.0150615
<i>Hspa5</i>	chr2:34627609-34632049	218.101	287.231	0.397217	-6.57518	4.86E-11	1.10E-08
<i>Adk</i>	chr14:21871795-22267791	41.7018	54.884	0.396277	-4.77924	1.76E-06	0.000132905
<i>Hnrnpab</i>	chr11:51398258-51420383	89.2813	117.244	0.393084	-7.27777	3.39E-13	1.06E-10
<i>Srp54a,Srp54b,Srp54c</i>	chr12:56256090-56365681	71.1562	93.3692	0.391958	-3.67708	0.000235917	0.00702469
<i>Vwa5a</i>	chr9:38525852-38550922	17.3712	22.7842	0.391336	-5.51577	3.47E-08	4.57E-06
<i>Hsp90aa1</i>	chr12:111929245-111934605	201.724	264.567	0.391249	-4.82554	1.40E-06	0.000109942
<i>Sepp1</i>	chr15:3220766-3230508	158.037	207.102	0.390077	-6.59003	4.40E-11	1.02E-08
<i>Serp1nb1a</i>	chr13:32933960-32943054	88.2294	115.574	0.389488	-3.25247	0.00114405	0.0218883
<i>Slain2</i>	chr5:73305555-73370067	6.70474	8.77775	0.38867	-3.30458	0.000951186	0.0192819
<i>Gm1821</i>	chr14:46703701-46704632	792.687	1037.2	0.387872	-4.48214	7.39E-06	0.000443194
<i>Rnpepl1</i>	chr1:94807401-94817162	41.9029	54.826	0.387811	-2.94665	0.0032124	0.0444248

<i>Tmem176b</i>	chr6:48783810-48791373	622.399	814.135	0.387428	-6.16597	7.01E-10	1.19E-07
<i>Gpank1</i>	chr17:35258440-35261760	22.0041	28.781	0.387345	-3.09392	0.00197533	0.0322944
<i>Spop</i>	chr11:95275396-95354724	48.3751	63.2664	0.387174	-3.04739	0.00230839	0.0362054
<i>Atf4</i>	chr15:80085613-80087971	160.3	209.642	0.387152	-3.82948	0.000128412	0.00451785
<i>Lman2</i>	chr13:55445193-55464144	59.3866	77.6491	0.386831	-3.8015	0.000143823	0.00490385
<i>Mospd3</i>	chr5:138037874-138042268	143.512	187.067	0.382384	-3.33561	0.000851109	0.0178471
<i>Mef2c</i>	chr13:83643032-83806684	10.0731	13.1143	0.38063	-4.14299	3.43E-05	0.0015684
<i>Dnpep</i>	chr1:75305139-75314212	83.956	109.23	0.379662	-3.57433	0.000351131	0.00955017
<i>U2surp</i>	chr9:95357312-95412415	4.49915	5.84505	0.377562	-3.04229	0.00234788	0.0364788
<i>Rpl9</i>	chr5:65779602-65782670	234.513	304.479	0.376674	-2.93877	0.00329513	0.0452983
<i>Gps1</i>	chr11:120645585-120650416	22.1407	28.7417	0.376446	-3.72979	0.00019164	0.00609404
<i>Idh3a</i>	chr9:54434317-54452469	71.1331	92.3212	0.37614	-3.16994	0.00152472	0.0268217
<i>Abhd14a</i>	chr9:106342381-106350009	41.2663	53.4592	0.373475	-3.70741	0.000209393	0.00645016
<i>Hn1</i>	chr11:115358666-115375684	312.972	405.439	0.373451	-4.15748	3.22E-05	0.00150183
<i>Ctse</i>	chr1:133534890-133572084	145.412	188.357	0.37332	-3.8418	0.000122136	0.00436334
<i>Pphln1</i>	chr15:93228780-93322343	8.93811	11.5724	0.372652	-2.96911	0.0029866	0.0425738
<i>Rftn1</i>	chr17:50132631-50329822	59.1251	76.5342	0.372334	-3.11711	0.00182632	0.0303802
<i>Etv6</i>	chr6:133985724-134220165	32.0409	41.4338	0.370891	-3.21933	0.00128492	0.0239886
<i>Eif4a2</i>	chr16:23107551-23127803	78.913	101.797	0.367354	-4.11197	3.92E-05	0.00173786
<i>Muc13</i>	chr16:33794122-33820013	114.976	148.283	0.367029	-3.91867	8.90E-05	0.00343537
<i>Eif6</i>	chr2:155645572-155652661	126.586	163.088	0.36553	-3.13805	0.00170074	0.0289927
<i>Edem2</i>	chr2:155527408-155555211	71.1794	91.6237	0.364262	-3.01871	0.00253849	0.0386619
<i>Pcna</i>	chr2:132075021-132078916	414.874	533.238	0.362108	-4.25465	2.09E-05	0.00104858
<i>Dcun1d1</i>	chr3:35791026-35831888	14.9104	19.1631	0.362014	-8.10314	4.44E-16	1.98E-13
<i>Ctnnd1</i>	chr2:84440937-84490897	8.89643	11.43	0.361526	-4.28369	1.84E-05	0.000949855
<i>P2ry14</i>	chr3:58810899-59148178	23.9177	30.7248	0.361326	-3.29793	0.000974015	0.0196415
<i>Rangap1</i>	chr15:81534677-81560349	102.184	131.252	0.361171	-3.99909	6.36E-05	0.00263801
<i>Snrpa</i>	chr7:27972024-27989339	84.7622	108.764	0.359708	-3.80112	0.000144044	0.00490385
<i>Ddx17</i>	chr15:79346837-79377171	55.9205	71.6306	0.357199	-3.57952	0.000344221	0.00944159
<i>Cdc45</i>	chr16:18780539-18812065	31.7117	40.6047	0.356632	-3.10162	0.00192465	0.0315998
<i>Arhgap19</i>	chr19:41841077-41876574	5.97212	7.64324	0.35594	-3.00529	0.00265326	0.0394396
<i>Nars</i>	chr18:64659300-64676211	46.8625	59.8093	0.351937	-4.68219	2.84E-06	0.000204055
<i>Kpnb1</i>	chr11:97021023-97049206	43.6562	55.7086	0.351712	-3.45805	0.000544103	0.0132884
<i>Psmc7</i>	chr8:110104279-110112382	122.639	156.38	0.350636	-3.05149	0.00227707	0.0359088
<i>Matr3</i>	chr18:35721811-35751699	37.9085	48.3186	0.350059	-2.9814	0.0028693	0.0415672
<i>Cdc42</i>	chr4:136875610-136913674	179.072	228.092	0.349077	-3.86149	0.000112696	0.00410208
<i>Ica1</i>	chr6:8580526-8728484	28.8289	36.6928	0.347981	-3.28292	0.00102737	0.0205345
<i>Eif5</i>	chr12:112776311-112784964	32.0407	40.7736	0.347732	-3.54445	0.000393439	0.0102962
<i>Srsf3</i>	chr17:29169604-29180317	94.3522	120.025	0.347211	-3.7474	0.000178675	0.00578164
<i>Mmrn1</i>	chr6:60894310-60939372	15.893	20.2039	0.346248	-3.80138	0.00014389	0.00490385
<i>Ubqln1</i>	chr13:58277516-58317014	13.8101	17.5457	0.345393	-3.9614	7.45E-05	0.00298439
<i>Ltf</i>	chr9:110921795-110945270	101.392	128.791	0.345087	-3.45554	0.000549192	0.0133548
<i>Apex1</i>	chr14:51544623-51550524	199.846	253.73	0.344406	-3.26326	0.00110139	0.0213187
<i>Ghitm</i>	chr14:37933631-37948508	84.6093	107.093	0.339971	-4.86909	1.12E-06	9.03E-05

<i>Ptp4a2</i>	chr4:129497722-129527247	58.4764	73.9942	0.339557	-8.42691	0	0
<i>Cdc42se2</i>	chr11:54530916-54601205	69.0496	87.2706	0.337862	-3.11595	0.00183353	0.0304492
<i>Eftud2</i>	chr11:102699785-102742289	46.5773	58.8536	0.337503	-4.30034	1.71E-05	0.000893187
<i>Hp1bp3</i>	chr4:137772541-137799085	60.9616	76.8881	0.334858	-3.24643	0.00116861	0.0222844
<i>Ncor1</i>	chr11:62094974-62270834	12.9077	16.2705	0.334019	-3.85214	0.000117092	0.00423109
<i>Pecam1</i>	chr11:106515531-106576595	23.7436	29.8746	0.331378	-4.60623	4.10E-06	0.000272767
<i>Tbc1d7</i>	chr13:43247108-43266870	35.4059	44.5336	0.330905	-2.97901	0.00289179	0.0418407
<i>Tgfbr2</i>	chr9:115996812-116084481	28.0117	35.1777	0.328632	-4.42568	9.61E-06	0.00054526
<i>Map4</i>	chr9:109834277-109986458	6.24407	7.83114	0.326734	-3.81903	0.000133975	0.00464299
<i>Glyr1</i>	chr16:5013994-5050003	25.2244	31.5627	0.323399	-3.42319	0.000618914	0.0145691
<i>Trp53</i>	chr11:69393860-69405375	168.36	210.493	0.322216	-3.62258	0.00029168	0.008275
<i>Cand1</i>	chr10:118635867-118677111	26.3878	32.9702	0.321292	-2.99609	0.00273463	0.0402202
<i>Gspt1</i>	chr16:11203475-11254418	20.6786	25.7722	0.317676	-4.84861	1.24E-06	9.93E-05
<i>Zfp36l2</i>	chr17:84583268-84587287	102.078	127.089	0.31617	-3.44048	0.000580688	0.0139251
<i>Tbc1d9b</i>	chr11:49944861-49986287	45.4841	56.4937	0.31273	-2.99329	0.0027599	0.0403134
<i>Srrt</i>	chr5:137736931-137748902	49.3017	61.2304	0.312611	-5.49116	3.99E-08	5.19E-06
<i>Ppp2r5c</i>	chr12:111685388-111821271	52.4691	65.1249	0.31174	-3.8067	0.000140835	0.00485169
<i>Psmc6</i>	chr12:56499811-56519446	321.032	398.32	0.311208	-3.11335	0.00184974	0.0306359
<i>H3f3b</i>	chr11:115883274-115885818	356.514	442.041	0.310223	-3.97803	6.95E-05	0.00282218
<i>Ralgds</i>	chr2:28368686-28408602	13.2906	16.4721	0.309626	-3.05403	0.00225792	0.0357041
<i>Sin3b</i>	chr8:75247186-75282102	267.509	331.515	0.309486	-2.96501	0.00302669	0.0430393
<i>Ly6e</i>	chr15:74785480-74790335	630.97	781.488	0.308652	-7.56421	3.91E-14	1.46E-11
<i>Pglyrp2</i>	chr17:32549405-32561112	48.8863	60.4944	0.307372	-7.64713	2.07E-14	8.24E-12
<i>G3bp1</i>	chr11:55283253-55314389	91.3293	112.976	0.306867	-2.93125	0.00337599	0.0460272
<i>Oat</i>	chr7:139749157-139768081	123.293	152.516	0.306866	-2.99407	0.00275282	0.0403134
<i>Anp32e</i>	chr3:95733179-95751310	37.2089	46.019	0.306579	-5.03332	4.82E-07	4.33E-05
<i>Wdr61</i>	chr9:54564961-54582335	53.7921	66.4943	0.305836	-3.27369	0.00106152	0.0210036
<i>Tuba1a</i>	chr15:98780277-98783932	376.304	464.218	0.302904	-3.70786	0.000209016	0.00645016
<i>Anxa6</i>	chr11:54792463-54846973	38.3962	47.1286	0.295637	-4.14449	3.41E-05	0.0015684
<i>Nmi</i>	chr2:51804018-51828728	30.0429	36.8509	0.294678	-3.79059	0.000150293	0.00507183
<i>Myo9b</i>	chr8:73796612-73884611	10.8337	13.2837	0.294128	-3.22081	0.0012783	0.0239422
<i>Hk1</i>	chr10:61731602-61842656	30.674	37.5732	0.292686	-4.46908	7.86E-06	0.000461578
<i>Ncoa4</i>	chr14:32973077-32992549	58.627	71.8132	0.292684	-2.97578	0.00292243	0.0420054
<i>Hsd3b7</i>	chr7:134944122-134947316	123.452	151.149	0.292014	-4.42367	9.70E-06	0.00054526
<i>Mapk14</i>	chr17:28828286-28885350	72.1765	88.2454	0.289992	-3.04612	0.00231813	0.0362599
<i>Rnps1</i>	chr17:24551619-24562842	75.4196	92.1139	0.288479	-4.47094	7.79E-06	0.000459904
<i>Cad</i>	chr5:31357183-31380852	46.0069	56.1115	0.286445	-3.04009	0.00236505	0.0366963
<i>Cct7</i>	chr6:85396778-85418471	291.549	355.089	0.284442	-3.65276	0.00025944	0.00756427
<i>Eif5a</i>	chr11:69730213-69735460	791.362	963.203	0.283502	-9.13763	0	0
<i>Ruvbl2</i>	chr7:52677267-52689834	289.69	352.162	0.281731	-3.26239	0.00110476	0.021333
<i>Hsp90b1</i>	chr10:86153585-86168189	189.891	230.716	0.280947	-3.36602	0.000762619	0.0164689
<i>Idh3g</i>	chrX:71024301-71032236	335.85	406.565	0.27567	-3.1006	0.00193132	0.0316643
<i>Gpbp1</i>	chr13:112215887-112280249	26.8526	32.4773	0.274367	-3.41382	0.000640596	0.0149024
<i>Fut8</i>	chr12:78339090-78576983	129.221	156.2	0.273545	-6.32075	2.60E-10	5.02E-08

<i>Lsp1</i>	chr7:149646716-149701914	57.0398	68.9194	0.272941	-3.48657	0.000489264	0.0122581
<i>Rpl7a</i>	chr2:26766326-26768831	596.202	719.248	0.27069	-3.08806	0.00201471	0.0327992
<i>Slc29a1</i>	chr17:45722148-45736552	135.888	163.79	0.269432	-6.11641	9.57E-10	1.54E-07
<i>Ubc</i>	chr5:125866334-125870387	616.041	739.591	0.263702	-3.88706	0.000101465	0.00377638
<i>Ctbp1</i>	chr5:33590371-33617653	92.3711	110.429	0.257606	-5.18488	2.16E-07	2.21E-05
<i>Ifi47,Olfr56</i>	chr11:48851161-48948889	125.388	149.751	0.256172	-2.96967	0.00298118	0.0425489
<i>Camk2g</i>	chr14:21554096-21613310	15.3529	18.2367	0.248332	-2.93399	0.00334639	0.0457314
<i>Laptm5</i>	chr4:130469248-130492063	328.905	390.681	0.248321	-3.27018	0.00107479	0.0210979
<i>Zscan21</i>	chr5:138558132-138575487	12.3699	14.6469	0.243756	-3.63723	0.000275588	0.00789587
<i>Canx</i>	chr11:50107458-50139175	35.123	41.4713	0.239696	-4.27556	1.91E-05	0.000976474
<i>Mcm3</i>	chr1:20793094-20810294	214.442	251.96	0.232608	-2.89992	0.00373256	0.0494329
<i>Irak1,Mir5132,Mir718</i>	chrX:71259252-71269275	33.0055	38.4822	0.221485	-3.62666	0.00028711	0.00818547
<i>Vrk1</i>	chr12:107248472-107315620	29.8112	34.6177	0.215657	-3.7275	0.000193388	0.00612054
<i>Stat3</i>	chr11:100748123-100800825	37.7289	43.7703	0.214284	-5.08084	3.76E-07	3.57E-05
<i>Tuba1b</i>	chr15:98761861-98764821	2483.24	2874.95	0.211316	-3.38236	0.000718662	0.015875
<i>Ranbp3</i>	chr17:56812647-56851192	38.6672	44.7033	0.20927	-4.8893	1.01E-06	8.31E-05
<i>Slc3a2</i>	chr19:8781371-8797859	218.74	252.258	0.205686	-3.04617	0.00231778	0.0362599
<i>Orc3</i>	chr4:34497863-34562191	15.2711	17.6063	0.205293	-3.15979	0.00157884	0.02757
<i>Casp8</i>	chr1:58852217-58904347	78.2366	90.0266	0.202509	-3.3849	0.000712032	0.0157586
<i>Ndufs1</i>	chr1:63161044-63223396	73.9649	85.0817	0.202009	-3.6468	0.000265526	0.00768366
<i>Kit</i>	chr5:75971011-76052746	85.0309	97.435	0.196453	-3.78484	0.000153806	0.0051603
<i>Cbfb</i>	chr8:107694573-107741888	50.2826	57.5463	0.194663	-4.18252	2.88E-05	0.00136765
<i>Pqlc1</i>	chr18:80451983-80489463	80.7988	92.4647	0.194569	-5.45568	4.88E-08	5.94E-06
<i>Cnot1</i>	chr8:98243350-98345628	14.6992	16.8053	0.193176	-3.4721	0.000516407	0.0127723
<i>Dntt</i>	chr19:41103764-41134015	306.307	350.159	0.193031	-2.97503	0.00292962	0.0420054
<i>Traf7</i>	chr17:24625727-24664883	95.2688	108.276	0.184633	-3.81237	0.000137638	0.0047557
<i>Ciz1</i>	chr2:32218529-32233833	35.8563	40.7198	0.183505	-3.05174	0.00227517	0.0359088
<i>Mbnl1</i>	chr3:60276751-60433670	39.5308	44.892	0.183479	-5.05099	4.40E-07	4.04E-05
<i>Gtf2ird1</i>	chr5:134833530-134932586	12.8247	14.5242	0.179531	-4.87185	1.11E-06	9.01E-05
<i>BC017643</i>	chr11:121038906-121090623	85.7565	94.9732	0.147275	-4.57893	4.67E-06	0.000302217
<i>Hnrnpd</i>	chr5:100384954-100407957	19.6751	21.3989	0.121168	-3.73541	0.00018741	0.00597594
<i>Gpr56</i>	chr8:97501008-97538108	640.133	691.888	0.112168	-6.36227	1.99E-10	3.97E-08
<i>Txnip</i>	chr3:96359690-96370724	240.057	259.349	0.111519	-3.4292	0.000605368	0.0144477
<i>Acot7</i>	chr4:151552208-151645964	245.802	260.603	0.0843548	-3.02962	0.00244862	0.0376899
<i>Arhgef1</i>	chr7:25688004-25711610	61.8801	59.1126	-0.066009	3.45802	0.000544165	0.0132884
<i>Tpd52</i>	chr3:8929435-9004515	53.3153	50.0806	-0.0902979	2.94505	0.00322902	0.0445481
<i>Npm1</i>	chr11:33052497-33063206	802.163	745.598	-0.105498	3.05484	0.00225182	0.0356564
<i>Atp13a2</i>	chr4:140542787-140563616	109.233	100.076	-0.126308	2.92601	0.00343339	0.0465903
<i>Anapc5</i>	chr5:123237469-123271348	354.756	323.709	-0.132129	4.45207	8.50E-06	0.000492214
<i>Eef1a1</i>	chr9:78326260-78329531	19600.7	17787.1	-0.140074	3.96262	7.41E-05	0.00297944
<i>Psap</i>	chr10:59740375-59765348	140.104	127.035	-0.141273	4.45797	8.27E-06	0.000483687
<i>Kat5</i>	chr19:5603013-5610094	40.709	36.2668	-0.166699	2.93517	0.00333369	0.0456657
<i>Rps24</i>	chr14:25309902-25315368	1713.49	1513.54	-0.179014	6.00096	1.96E-09	3.07E-07
<i>Pgam5</i>	chr5:110688153-110698918	73.7181	65.0037	-0.181498	3.42612	0.000612265	0.0145225

<i>Fkbp8</i>	chr8:73051641-73059227	293.07	258.373	-0.181791	3.06281	0.00219268	0.0348152
<i>Dut</i>	chr2:125072983-125084785	217.941	191.738	-0.184798	3.53774	0.000403563	0.0104972
<i>Wdr36</i>	chr18:32823295-33026074	45.5288	40.0428	-0.185238	2.99342	0.0027587	0.0403134
<i>Snx5</i>	chr2:144075858-144096638	155.033	136.026	-0.188696	4.11278	3.91E-05	0.00173786
<i>Stau1</i>	chr2:166773641-166821778	47.0283	41.0741	-0.195299	3.4804	0.000500665	0.0124435
<i>Cuta</i>	chr17:27074916-27076423	340.849	297.657	-0.195483	3.40099	0.000671423	0.0152202
<i>Rps2</i>	chr17:24857007-24858872	2534.32	2211.8	-0.196375	3.01653	0.00255682	0.0388388
<i>Tmem219</i>	chr7:134029732-134041792	121.115	105.555	-0.198381	3.01154	0.00259926	0.0392081
<i>Wdr89</i>	chr12:76731580-76770524	1466.65	1277.04	-0.199728	3.282	0.00103072	0.0205345
<i>Mpl</i>	chr4:118115021-118130100	167.462	145.763	-0.200205	6.38001	1.77E-10	3.66E-08
<i>Fau</i>	chr19:6057887-6059524	772.695	672.056	-0.201318	3.22636	0.00125376	0.0235842
<i>Tagln2</i>	chr1:174430376-174437506	1656.77	1440.09	-0.202217	3.09445	0.0019718	0.0322823
<i>Mcm6</i>	chr1:130228167-130256233	669.828	581.288	-0.204538	3.1029	0.00191637	0.0315265
<i>Rps19</i>	chr7:25669732-25674821	3049.51	2642.23	-0.206817	3.01106	0.00260335	0.0392081
<i>Cdk2</i>	chr10:128134994-128142107	68.4247	59.2743	-0.207111	3.54421	0.000393793	0.0102962
<i>Eef1b2</i>	chr1:63223404-63227060	2321.62	2009.7	-0.208152	3.41229	0.000644199	0.0149431
<i>Rpsa</i>	chr9:120036883-120041487	2263.14	1957.88	-0.209034	3.39187	0.00069417	0.015602
<i>H2-D1,H2-L,LOC547349</i>	chr17:35400038-35462354	2226.35	1923.09	-0.211253	3.43288	0.000597216	0.0142826
<i>Osbp19</i>	chr4:108673409-108874877	62.4565	53.918	-0.212087	3.37175	0.000746912	0.0163123
<i>Rpl5</i>	chr5:108329546-108416096	1065.79	915.061	-0.219983	3.37482	0.000738647	0.0162236
<i>Gnb2l1</i>	chr11:48613861-48619743	14118.5	12118.7	-0.22036	3.32066	0.000898058	0.0183983
<i>Rnf14</i>	chr18:38456288-38477503	45.1001	38.7003	-0.220787	3.68058	0.000232705	0.0069601
<i>Oaz1</i>	chr10:80289400-80292035	1476.95	1263.74	-0.224924	3.24436	0.00117713	0.02241
<i>Gdi2</i>	chr13:3537320-3610354	553.504	473.498	-0.225233	3.27002	0.0010754	0.0210979
<i>Rps18</i>	chr17:34088943-34092586	3450.91	2951.97	-0.2253	3.19991	0.00137472	0.0249802
<i>Zfand2b</i>	chr1:75165219-75168200	84.1626	71.9884	-0.225415	4.14299	3.43E-05	0.0015684
<i>Srsf11</i>	chr3:157673456-157699603	90.5852	76.9949	-0.234512	6.3647	1.96E-10	3.97E-08
<i>Rpl8</i>	chr15:76734500-76736748	10461.2	8883.03	-0.23592	3.86574	0.000110752	0.00404402
<i>Rps5</i>	chr7:13507659-13512035	18056	15331.7	-0.235962	3.70657	0.000210083	0.00645016
<i>Hsp90ab1</i>	chr17:45704726-45710210	2915.33	2471.65	-0.238185	3.9132	9.11E-05	0.00349096
<i>C330021F23Rik</i>	chr8:3567997-3584776	489.698	415.008	-0.238754	3.04866	0.00229865	0.0361016
<i>Rps8</i>	chr4:116826440-116828737	2970.91	2517.56	-0.238879	3.58063	0.00034277	0.00943531
<i>Eif3h</i>	chr15:51618108-51697007	1106.76	937.808	-0.238983	3.36803	0.000757073	0.0164103
<i>Klhdc3</i>	chr17:46811499-46817879	128.916	109.233	-0.239024	3.40383	0.000664472	0.015174
<i>Mfge8</i>	chr7:86278653-86293946	191.135	161.656	-0.241661	3.25615	0.00112933	0.0217142
<i>Ppib</i>	chr9:65907975-65917538	679.684	574.055	-0.243677	2.90091	0.00372078	0.0493333
<i>Rpl35a</i>	chr16:33056538-33060274	696.015	587.736	-0.24395	5.04803	4.46E-07	4.07E-05
<i>Vim</i>	chr2:13495937-13504453	1439.31	1214.77	-0.2447	3.80544	0.000141553	0.00486194
<i>Gm5148</i>	chr3:37613111-37623282	2284.65	1926.88	-0.245706	3.83983	0.00012312	0.00438495
<i>Uba52</i>	chr8:73032164-73034266	3867.48	3257.37	-0.247685	3.51875	0.000433591	0.0111282
<i>Emb</i>	chr13:118009379-118063222	388.296	327.036	-0.247708	3.3694	0.00075331	0.0163594
<i>Akr1a1</i>	chr4:116309114-116324279	1460.01	1228.59	-0.248982	3.75946	0.000170283	0.00564765
<i>Tubb5</i>	chr17:35970864-35975246	2289.58	1925.05	-0.250185	4.11382	3.89E-05	0.00173786
<i>Rps9</i>	chr7:3655642-3658499	7807.9	6563.27	-0.25052	4.07511	4.60E-05	0.00199386

<i>Rpl27a</i>	chr7:116662708-116665883	1311.09	1100.7	-0.252345	3.6009	0.000317118	0.00884492
<i>Tpt1</i>	chr14:76245062-76248110	3374.56	2828.1	-0.254866	4.00336	6.24E-05	0.00261126
<i>Rpl32</i>	chr6:115724574-115758761	5923.09	4954.85	-0.257508	3.92356	8.72E-05	0.00338897
<i>Cmtm7</i>	chr9:114665953-114691111	1362.85	1139.45	-0.258292	4.07823	4.54E-05	0.00197472
<i>Rbm39</i>	chr2:155972974-156005976	159.661	132.778	-0.265998	2.95777	0.00309876	0.0433232
<i>Dctd</i>	chr8:49184445-49227021	59.7028	49.6237	-0.266768	3.1388	0.00169639	0.0289611
<i>Nt5c3</i>	chr6:56832394-56873926	159.385	132.451	-0.267062	5.59635	2.19E-08	3.02E-06
<i>Os9</i>	chr10:126531314-126558216	23.2481	19.3192	-0.267072	3.37019	0.00075117	0.0163436
<i>Gnai3</i>	chr3:107910216-107949032	137.952	114.399	-0.270093	3.00042	0.00269603	0.0398043
<i>Mir5121,Rpl13a,Snord33</i>	chr7:52380932-52384115	2142.24	1775.95	-0.270528	4.09847	4.16E-05	0.00183035
<i>Frmd8</i>	chr19:5850973-5875208	143.261	118.758	-0.270617	3.01777	0.00254643	0.0387318
<i>Sptssa</i>	chr12:55746360-55757559	477.193	395.461	-0.271036	3.26888	0.00107974	0.0211473
<i>Wdr1</i>	chr5:38918051-38952834	174.097	143.849	-0.275342	3.16339	0.00155946	0.0273496
<i>H2afx</i>	chr9:44142797-44144156	415.354	343.093	-0.275739	3.20005	0.00137405	0.0249802
<i>Slc48a1</i>	chr15:97614795-97674933	212.081	175.091	-0.276506	3.22605	0.00125511	0.0235842
<i>Rpl14</i>	chr9:120480633-120483770	2552.42	2106.86	-0.276772	4.21951	2.45E-05	0.00118574
<i>Rpl26</i>	chr11:68715067-68718036	4528.91	3731.68	-0.279337	4.16821	3.07E-05	0.00144453
<i>Zfp207</i>	chr11:80196780-80219375	367.152	302.343	-0.280189	6.34524	2.22E-10	4.36E-08
<i>Tpm1</i>	chr9:66870399-66897020	133.276	109.621	-0.281895	3.14603	0.00165505	0.0284231
<i>Ucp2</i>	chr7:107641853-107650682	487.596	400.963	-0.282218	4.30278	1.69E-05	0.000887419
<i>Gm13826</i>	chr5:115552930-115560277	5636.76	4626.94	-0.284809	4.52206	6.12E-06	0.000379071
<i>Slc43a2</i>	chr11:75345195-75391074	10.2588	8.41818	-0.28528	5.08572	3.66E-07	3.50E-05
<i>Rpl23</i>	chr11:97638839-97643753	731.896	600.334	-0.285874	3.56191	0.000368161	0.0098645
<i>Tk2</i>	chr8:106750590-106772458	38.7853	31.8067	-0.286179	3.71994	0.000199274	0.00623682
<i>Rpl4</i>	chr9:64021193-64026369	7926.62	6498.41	-0.286617	4.5995	4.24E-06	0.000280119
<i>Kdelr1</i>	chr7:53128209-53139096	244.265	200.136	-0.287464	2.96131	0.00306336	0.0432419
<i>Dap</i>	chr15:31154139-31204093	247.153	201.725	-0.29302	2.99307	0.00276186	0.0403134
<i>Mrpl15</i>	chr1:4763278-4775807	50.3383	40.935	-0.298322	3.01154	0.00259924	0.0392081
<i>Rps15a</i>	chr7:125247889-125259661	108.549	88.2442	-0.298776	3.54928	0.000386289	0.010162
<i>Sod1</i>	chr16:90220986-90226569	920.777	747.712	-0.300368	3.36665	0.000760869	0.0164618
<i>Fgfr1op2</i>	chr6:146526432-146547720	112.705	91.4759	-0.301081	3.00654	0.00264238	0.0394396
<i>Psbm2</i>	chr4:126354886-126386959	498.058	404	-0.301956	3.11844	0.00181809	0.0303234
<i>Tmem106c</i>	chr15:97794659-97800717	105.783	85.7279	-0.303272	2.97855	0.00289618	0.0418518
<i>Plec</i>	chr15:76001403-76061808	14.6741	11.8876	-0.303818	3.21098	0.00132285	0.0245048
<i>Rpl36</i>	chr17:56752817-56753669	1257.3	1017.85	-0.304806	3.00483	0.00265731	0.0394396
<i>Zfp68</i>	chr5:139044879-139060971	27.8314	22.5208	-0.305458	5.29759	1.17E-07	1.31E-05
<i>Rplp1</i>	chr9:61761089-61762317	10935.4	8841.6	-0.306627	4.94214	7.73E-07	6.53E-05
<i>Rcsd1</i>	chr1:167579075-167638225	57.325	46.2255	-0.310475	5.75334	8.75E-09	1.25E-06
<i>Rpl30</i>	chr15:34370262-34373031	531.758	428.676	-0.310882	4.02305	5.74E-05	0.00241807
<i>H2-Ab1</i>	chr17:34400171-34406363	400.298	321.936	-0.3143	3.44066	0.000580302	0.0139251
<i>Pdk3</i>	chrX:91009954-91077434	163.792	131.142	-0.32073	3.19021	0.00142168	0.025793
<i>Eif1ax</i>	chrX:155810126-155823631	448.771	359.156	-0.321367	3.32701	0.000877825	0.018121
<i>Rbck1</i>	chr2:152142069-152158375	287.565	230.039	-0.322011	9.6677	0	0
<i>Tmem70</i>	chr1:16655271-16668356	116.924	93.1372	-0.328137	3.12165	0.00179841	0.0300383

<i>Timeless</i>	chr10:127669118-127689997	15.6775	12.4869	-0.328279	7.61591	2.62E-14	1.01E-11
<i>H2-Q7</i>	chr17:35576099-35580718	699.845	557.188	-0.328872	7.85313	4.00E-15	1.71E-12
<i>Ptma</i>	chr1:88423310-88427273	4512.15	3589.22	-0.330146	5.42984	5.64E-08	6.80E-06
<i>Dctn2</i>	chr10:126703317-126725827	146.544	116.505	-0.330944	3.13513	0.00171779	0.0291119
<i>Ppif</i>	chr14:26513655-26520768	154.81	122.747	-0.334809	2.95903	0.00308604	0.0433232
<i>Cdca3</i>	chr6:124780193-124783719	151.533	119.909	-0.337689	2.91347	0.00357434	0.0480522
<i>Rps16</i>	chr7:29135707-29137717	1673.38	1322.81	-0.339163	4.34453	1.40E-05	0.000758479
<i>Rtn3</i>	chr19:7492114-7557781	230.679	181.863	-0.343037	4.21596	2.49E-05	0.00119456
<i>Yeats4</i>	chr10:116652196-116661563	205.26	161.813	-0.343126	3.22031	0.00128053	0.0239453
<i>Cd74,Mir5107</i>	chr18:60963502-60972306	365.271	287.946	-0.343169	4.59831	4.26E-06	0.000280119
<i>Rps27a</i>	chr11:29445841-29478352	769.802	606.752	-0.343379	4.63941	3.49E-06	0.000238212
<i>Rps23</i>	chr13:91062726-91064337	1227.17	965.757	-0.345606	3.92746	8.58E-05	0.00335706
<i>Rplp2</i>	chr7:148633548-148637241	1671.14	1314.37	-0.346461	3.89133	9.97E-05	0.00373461
<i>Axl</i>	chr7:26541518-26573752	30.1625	23.6968	-0.34806	7.52314	5.35E-14	1.88E-11
<i>Rps7</i>	chr12:29315711-29320818	829.317	651.53	-0.348092	4.32772	1.51E-05	0.000807356
<i>Igfbp4</i>	chr11:98902573-98913957	387.58	304.478	-0.348155	4.4463	8.74E-06	0.00050059
<i>Bag6</i>	chr17:35272122-35284267	27.5305	21.6057	-0.349623	6.16638	6.99E-10	1.19E-07
<i>Tmem134</i>	chr19:4125959-4132307	85.8938	67.3504	-0.350869	4.27985	1.87E-05	0.000962115
<i>Rpl19</i>	chr11:97888023-97891807	1166.01	913.174	-0.352623	13.3007	0	0
<i>B3gnt5</i>	chr16:19760326-19772846	7.99998	6.26131	-0.353531	3.5691	0.00035821	0.00971026
<i>Adss</i>	chr1:179693308-179726640	155.083	121.373	-0.353598	3.74956	0.000177147	0.00577597
<i>Rpl28</i>	chr7:4744566-4746149	661.053	516.658	-0.355557	3.12855	0.00175671	0.0295981
<i>Apobec3</i>	chr15:79719961-79738859	108.734	84.7708	-0.359169	3.34303	0.000828676	0.017521
<i>Rpl38</i>	chr11:114529856-114533645	1252.72	975.499	-0.360856	4.06039	4.90E-05	0.00209252
<i>Rhot1</i>	chr11:80022556-80081409	18.1911	14.1624	-0.361166	8.26364	2.22E-16	1.03E-13
<i>Rps17</i>	chr7:88487618-88490120	2063.05	1600.96	-0.365843	4.47539	7.63E-06	0.000452748
<i>H2-Q8</i>	chr17:35561791-35565306	209.552	162.571	-0.366236	3.00567	0.00264992	0.0394396
<i>Z310022A10Rik</i>	chr7:28338308-28367117	24.1932	18.7593	-0.366997	2.90995	0.00361481	0.0484837
<i>Tsc22d1</i>	chr14:76815627-76907573	331.563	256.956	-0.367761	4.31235	1.62E-05	0.000853742
<i>Pias3</i>	chr3:96500297-96512483	10.3465	8.01719	-0.367978	4.84239	1.28E-06	0.000101704
<i>Hnrnpa2b1</i>	chr6:51410433-51419893	234.271	181.513	-0.368105	6.01571	1.79E-09	2.84E-07
<i>Dhrs3</i>	chr4:144482729-144517548	70.7378	54.6308	-0.372768	3.69977	0.000215795	0.00653725
<i>Hsd17b12</i>	chr2:93872853-93998066	91.408	70.5352	-0.373978	2.90956	0.00361942	0.0484893
<i>Rps21</i>	chr2:179992083-179993149	6943.38	5348.33	-0.376548	5.52472	3.30E-08	4.44E-06
<i>Cox7a2l</i>	chr17:83901256-83913673	1117.41	860.197	-0.377421	5.17135	2.32E-07	2.36E-05
<i>Fbxo3</i>	chr2:103867955-103903394	64.5009	49.6212	-0.378363	3.07701	0.00209089	0.0336607
<i>Cd24a</i>	chr10:43298974-43304071	553.841	425.841	-0.379156	5.0759	3.86E-07	3.63E-05
<i>Cdc16</i>	chr8:13757689-13781882	89.4994	68.764	-0.380224	3.17143	0.00151693	0.0267252
<i>Calr</i>	chr8:87365986-87370830	346.546	266.201	-0.380529	4.64061	3.47E-06	0.000238212
<i>Ifngr1</i>	chr10:19311763-19330031	149.437	114.788	-0.380563	3.71982	0.000199363	0.00623682
<i>Hnrpd1</i>	chr5:100462597-100468241	113.813	87.3774	-0.381339	3.75142	0.000175836	0.00574944
<i>Nubp1</i>	chr16:10412030-10447443	86.2784	66.2303	-0.381508	3.08518	0.00203429	0.0330251
<i>Ncl</i>	chr1:88241293-88256030	80.2526	61.5713	-0.38229	4.74245	2.11E-06	0.000155673
<i>Tom1l2</i>	chr11:60040215-60166407	10.9195	8.37216	-0.38323	3.08467	0.00203781	0.033036

<i>Rps20</i>	chr4:3761619-3762747	3867.46	2964.07	-0.383806	5.46686	4.58E-08	5.83E-06
<i>Acadl</i>	chr1:66877412-66909883	193.357	147.987	-0.38579	3.99427	6.49E-05	0.00268269
<i>Rpl37</i>	chr15:5066612-5069140	603.204	461.093	-0.38759	4.25462	2.09E-05	0.00104858
<i>Tbxa2r</i>	chr10:80791475-80797917	100.845	76.5432	-0.397794	3.26183	0.00110697	0.021333
<i>Glo1</i>	chr17:30729806-30749604	72.1553	54.7218	-0.398989	2.91217	0.00358933	0.0481978
<i>Dek</i>	chr13:47138867-47201589	85.9941	65.0988	-0.401606	3.50018	0.00046495	0.0117507
<i>1110057K04Rik</i>	chr12:8214912-8292565	31.7069	23.9952	-0.402048	3.12758	0.00176252	0.0296528
<i>Slc14a1</i>	chr18:78296829-78338858	39.5925	29.9497	-0.402686	5.80836	6.31E-09	9.36E-07
<i>Arl6ip6</i>	chr2:53051117-53078255	55.0524	41.626	-0.40332	2.9527	0.00315008	0.0437721
<i>Serpnb6a</i>	chr13:34009786-34094663	34.5202	26.0876	-0.40408	3.82489	0.000130832	0.00455727
<i>Cers5</i>	chr15:99566022-99602946	101.628	76.7519	-0.405019	3.39354	0.000689954	0.0155374
<i>Ak3</i>	chr19:29095321-29123219	71.5592	53.8377	-0.41052	3.42303	0.000619265	0.0145691
<i>Nap1l1</i>	chr10:110910247-110935206	145.615	109.513	-0.411061	5.08928	3.59E-07	3.47E-05
<i>Kcnn4</i>	chr7:25155281-25170231	145.905	109.371	-0.415798	4.5246	6.05E-06	0.000376554
<i>Rit1</i>	chr3:88520775-88534970	45.0688	33.7825	-0.415853	3.13561	0.00171496	0.0291066
<i>Pak1</i>	chr7:104991448-105060891	55.2972	41.2323	-0.423432	3.338	0.00084383	0.0177588
<i>Nkiras2</i>	chr11:100484268-100512007	70.1019	52.2304	-0.424564	3.07524	0.00210335	0.0337364
<i>Spg21</i>	chr9:65308743-65336277	53.5675	39.8983	-0.425029	3.13949	0.00169243	0.0289363
<i>Gm6402</i>	chr17:30352468-30713232	203.416	151.473	-0.425374	3.88985	0.000100308	0.00374538
<i>Rhog</i>	chr7:109387636-109398632	459.761	342.103	-0.426454	4.9222	8.56E-07	7.13E-05
<i>Nbr1</i>	chr11:101413420-101443265	18.8208	13.9971	-0.427205	9.71953	0	0
<i>Tapbp</i>	chr17:34056422-34066235	84.0952	62.4498	-0.429327	9.0016	0	0
<i>1110038B12Rik</i>	chr17:35087180-35089416	189.322	140.395	-0.431354	2.9506	0.00317161	0.0439849
<i>Wls</i>	chr3:159502658-159598139	94.5276	69.7567	-0.438405	4.18059	2.91E-05	0.00137365
<i>Tfeb</i>	chr17:47873985-47929365	15.0833	11.0765	-0.445445	3.17267	0.00151045	0.0266516
<i>Pigp</i>	chr16:94580369-94690828	100.355	73.6318	-0.446718	3.72513	0.000195212	0.00615688
<i>Trim13</i>	chr14:62217062-62301210	19.8815	14.5821	-0.447224	3.41358	0.000641156	0.0149024
<i>Ccna2</i>	chr3:36451527-36470918	82.4534	60.4014	-0.448997	3.9437	8.02E-05	0.00318046
<i>Lrrcc1</i>	chr3:14533787-14572658	7.46596	5.46005	-0.451414	3.69074	0.000223607	0.0067053
<i>Commd7</i>	chr2:153442665-153458517	35.4701	25.8906	-0.454173	3.4403	0.000581066	0.0139251
<i>Slc40a1</i>	chr1:45964914-45982439	53.0518	38.6693	-0.456215	3.66996	0.000242584	0.00710864
<i>Mmadhc</i>	chr2:50135400-50152197	115.64	84.1386	-0.458802	3.33476	0.000853716	0.0178694
<i>Ubxn8</i>	chr8:34710092-34752448	36.8084	26.7249	-0.461849	2.97402	0.00293922	0.0420537
<i>Tcp1l1l2</i>	chr10:84039691-84077100	50.1884	36.3295	-0.46621	3.18051	0.00147016	0.0262308
<i>Gm6251</i>	chr10:19868725-20001396	971.299	700.106	-0.472343	5.09971	3.40E-07	3.31E-05
<i>Pfn1</i>	chr11:70465348-70468152	1698.73	1222.35	-0.474804	6.6645	2.66E-11	6.54E-09
<i>Mapk6</i>	chr9:75234707-75257821	18.1175	13.0337	-0.475131	2.95736	0.00310281	0.0433232
<i>Rnf20</i>	chr4:49644931-49669758	16.8723	12.1313	-0.475925	3.01076	0.00260595	0.0392081
<i>Prtn3</i>	chr10:79342411-79345917	2083.32	1496.59	-0.477207	7.07967	1.45E-12	4.29E-10
<i>1600012H06Rik</i>	chr17:15080188-15098237	15.2333	10.9239	-0.479743	3.39607	0.000683615	0.0154246
<i>Csnk1a1</i>	chr18:61715235-61747953	169.591	121.424	-0.482008	4.78388	1.72E-06	0.000130937
<i>Lancl1</i>	chr1:67047090-67085446	50.1601	35.8322	-0.485283	10.0837	0	0
<i>Plaa</i>	chr4:94231829-94269938	14.2657	10.1789	-0.486965	3.10273	0.00191747	0.0315265
<i>Cirbp</i>	chr10:79630585-79634398	171.256	122.05	-0.488685	4.04479	5.24E-05	0.00222042

<i>Fip111</i>	chr5:74931506-75098928	30.1063	21.4066	-0.49201	8.46172	0	0
<i>Hhex</i>	chr19:37509330-37515221	152.174	108.178	-0.492313	4.49026	7.11E-06	0.000428862
<i>Strap</i>	chr6:137683602-137700451	101.579	72.1721	-0.493092	4.54885	5.39E-06	0.000341182
<i>Orc2</i>	chr1:58519614-58561953	40.6642	28.8648	-0.494446	9.1183	0	0
<i>Uqcrfs1</i>	chr13:30632180-30637185	365.055	257.474	-0.503689	5.4589	4.79E-08	5.94E-06
<i>Dhx40</i>	chr11:86582350-86621162	26.897	18.9676	-0.503902	3.21382	0.00130983	0.024375
<i>Rpl12</i>	chr2:32817231-32819565	438.62	308.987	-0.505426	4.31921	1.57E-05	0.000835277
<i>Luc7l3</i>	chr11:94152452-94183225	42.6036	29.9524	-0.508303	3.70068	0.000215022	0.00653725
<i>Rad51</i>	chr2:118938552-118961806	37.3564	26.1965	-0.511981	2.92217	0.00347602	0.0471135
<i>Ube2g1</i>	chr11:72420762-72499983	53.4876	37.3858	-0.516713	4.35422	1.34E-05	0.000736063
<i>Mib2</i>	chr4:155028580-155043363	11.1643	7.79911	-0.517506	4.11134	3.93E-05	0.00173786
<i>Gm2a</i>	chr11:54911486-54926530	53.9845	37.5492	-0.523765	4.60919	4.04E-06	0.000272039
<i>Mtdh</i>	chr15:34012473-34072140	65.0049	45.1007	-0.527398	4.69331	2.69E-06	0.000194477
<i>Tjap1</i>	chr17:46394799-46419975	19.2547	13.3279	-0.53076	3.52729	0.000419836	0.0108716
<i>H2-Aa</i>	chr17:34419695-34424716	247.046	170.941	-0.531281	4.6502	3.32E-06	0.000231233
<i>Mpdu1</i>	chr11:69468538-69476144	72.2954	49.8445	-0.536472	3.20475	0.00135178	0.0247576
<i>Rnf139</i>	chr15:58720783-58765285	15.6839	10.8023	-0.537943	2.91758	0.0035276	0.0476452
<i>Mpo</i>	chr11:87607285-87617914	1618.04	1112.46	-0.540491	8.76683	0	0
<i>Aldh2</i>	chr5:122017695-122043833	163.705	112.543	-0.540625	5.45897	4.79E-08	5.94E-06
<i>Rnf40</i>	chr7:134732211-134747119	20.4544	13.9817	-0.548872	3.25448	0.001136	0.0218062
<i>9930012K11Rik</i>	chr14:70554211-70559309	23.2777	15.8934	-0.550523	4.8124	1.49E-06	0.000115849
<i>Ascc1</i>	chr10:59450656-59562738	102.739	69.7729	-0.558252	4.42433	9.67E-06	0.00054526
<i>Prpf38b</i>	chr3:108705724-108714622	21.228	14.403	-0.5596	2.91621	0.00354312	0.0477278
<i>Rps15a-ps6</i>	chr11:6005694-6100454	707.45	477.434	-0.567328	6.30498	2.88E-10	5.47E-08
<i>Ppp1r2</i>	chr16:31251626-31275363	19.1725	12.9337	-0.567903	3.24807	0.0011619	0.022193
<i>Tbcc</i>	chr17:47027569-47029412	36.1756	24.3854	-0.568998	2.96193	0.00305714	0.0432068
<i>Gt(ROSA)26Sor</i>	chr6:112996320-113027238	108.774	73.2299	-0.570831	3.7432	0.000181693	0.00582575
<i>Mtmr6</i>	chr14:60884041-60921208	21.3749	14.347	-0.57517	3.34996	0.000808244	0.0172609
<i>Mpzl1</i>	chr1:167522311-167564672	37.1	24.8803	-0.576414	5.46911	4.52E-08	5.82E-06
<i>Wash</i>	chr17:66460885-66469843	11.1131	7.44318	-0.578263	3.13726	0.00170536	0.0290205
<i>A930005H10Rik</i>	chr3:115584496-115591048	45.5051	30.3276	-0.585396	3.09047	0.00199838	0.0325793
<i>Cdc40</i>	chr10:40551426-40602949	42.9466	28.6184	-0.585597	4.27256	1.93E-05	0.00098534
<i>Snrf</i>	chr10:93003376-93067990	135.624	90.1359	-0.589437	3.56549	0.00036317	0.00975853
<i>Rdh14</i>	chr12:10397585-10402368	63.744	42.1192	-0.597812	3.55154	0.00038298	0.0101394
<i>Fgfr1</i>	chr8:26629243-26686186	7.24345	4.78112	-0.59933	5.42378	5.84E-08	6.96E-06
<i>Rnaset2b</i>	chr17:7183208-7202542	226.088	148.324	-0.60813	5.01379	5.34E-07	4.75E-05
<i>Gemin7</i>	chr7:20150297-20158692	140.647	92.1394	-0.61019	3.6116	0.000304314	0.0085704
<i>Mrps24</i>	chr11:5603985-5607702	77.2417	50.5067	-0.612906	3.26419	0.00109778	0.0212951
<i>Cdca2</i>	chr14:68294410-68333898	13.8325	9.02824	-0.61555	3.55074	0.000384148	0.0101394
<i>Themis2</i>	chr4:132338271-132352279	24.5232	15.8635	-0.628437	3.20083	0.00137034	0.0249802
<i>H2-T10</i>	chr17:36252815-36258389	19.2185	12.4138	-0.630551	3.06693	0.00216267	0.0345281
<i>Dusp6</i>	chr10:98725864-98730123	19.2741	12.4349	-0.632273	3.02917	0.00245225	0.0376956
<i>Cnn3</i>	chr3:121129458-121161123	41.8513	26.9134	-0.636946	3.64271	0.000269786	0.00778746
<i>Gtf3a</i>	chr5:147760232-147775373	93.4909	59.6297	-0.648795	4.20615	2.60E-05	0.00124241

<i>Fam105a</i>	chr15:27584825-27611297	13.143	8.38112	-0.649077	3.10846	0.00188068	0.0310539
<i>Fam43a</i>	chr16:30599808-30602883	16.2834	10.3718	-0.650733	3.02101	0.00251936	0.0384883
<i>Asb7</i>	chr7:73789456-73834447	3.81261	2.41211	-0.660483	3.17906	0.00147754	0.0262308
<i>Pgls</i>	chr8:74116082-74120166	427.005	269.858	-0.662051	6.38415	1.72E-10	3.63E-08
<i>Socs2</i>	chr10:94874123-94879491	12.3912	7.81871	-0.664312	4.34538	1.39E-05	0.000758479
<i>Adam11</i>	chr11:102622752-102641576	8.76232	5.52218	-0.666075	3.97909	6.92E-05	0.00281959
<i>Pex7</i>	chr10:19579895-19627480	24.3255	15.3253	-0.66655	3.05006	0.00228792	0.0360309
<i>H13</i>	chr2:152495196-152534404	141.581	88.4778	-0.678244	9.29354	0	0
<i>Serpinf1</i>	chr11:75223530-75236125	136.232	85.0029	-0.680478	5.4561	4.87E-08	5.94E-06
<i>Zfp444</i>	chr7:6124114-6144706	7.22272	4.49825	-0.683177	3.20665	0.0013429	0.0246833
<i>Triobp</i>	chr15:78778153-78841471	52.6238	32.7414	-0.684599	4.77825	1.77E-06	0.000132905
<i>Ubald1</i>	chr16:4874778-4879851	38.1801	23.6392	-0.691636	3.15973	0.00157917	0.02757
<i>1500011B03Rik</i>	chr5:115258204-115263985	123.927	75.8365	-0.708527	4.28886	1.80E-05	0.00093217
<i>Rbfa</i>	chr18:80389002-80397358	124.661	76.1953	-0.710234	5.2279	1.71E-07	1.87E-05
<i>Malsu1</i>	chr6:49023793-49034716	95.6878	58.3627	-0.713288	3.59653	0.000322492	0.0089732
<i>Rae1</i>	chr2:172825617-172841240	53.8214	32.721	-0.717963	4.23397	2.30E-05	0.00112611
<i>Cd79a</i>	chr7:25682529-25687216	34.025	20.6699	-0.719064	3.04415	0.00233338	0.0363728
<i>Ptger3</i>	chr3:157229855-157307722	56.0794	33.9343	-0.724729	4.64521	3.40E-06	0.000235473
<i>D4Wsu53e</i>	chr4:134479539-134483285	108.694	65.3528	-0.733946	5.22609	1.73E-07	1.87E-05
<i>Rnaset2b</i>	chr17:8321455-8340697	197.846	117.95	-0.746205	5.75432	8.70E-09	1.25E-06
<i>Rspry1</i>	chr8:97125840-97184176	8.45379	4.91475	-0.78248	2.9589	0.00308737	0.0433232
<i>Fam3c</i>	chr6:22256521-22306081	12.3839	7.17223	-0.787975	3.00824	0.00262764	0.0393329
<i>Cadm1</i>	chr9:47338434-47661468	3.35305	1.93387	-0.793985	3.29451	0.000985922	0.0198457
<i>Pan3</i>	chr5:148242155-148360077	8.92977	5.14988	-0.794084	3.34559	0.000821079	0.0174584
<i>B4galt4</i>	chr16:38742376-38769158	22.7875	13.0969	-0.799014	3.6615	0.000250743	0.00732917
<i>Letmd1</i>	chr15:100299464-100309683	44.0364	25.256	-0.802071	5.13892	2.76E-07	2.75E-05
<i>Slc24a6</i>	chr5:120961200-120984033	10.372	5.87646	-0.819679	6.28704	3.24E-10	6.04E-08
<i>Homez</i>	chr14:55471573-55482995	3.87636	2.14287	-0.855158	3.20022	0.00137324	0.0249802
<i>Tctn2</i>	chr5:125048757-125077658	10.9314	6.02732	-0.858885	3.01048	0.00260832	0.0392081
<i>Mtx2</i>	chr2:74663868-74714805	44.4538	24.4288	-0.863726	3.91538	9.03E-05	0.00347102
<i>Gem</i>	chr4:11631593-11642140	27.1897	14.8672	-0.870928	4.23201	2.32E-05	0.00112645
<i>Ndfip1</i>	chr18:38578628-38624060	50.6085	27.1473	-0.898574	3.67361	0.000239151	0.00704532
<i>Elane</i>	chr10:79349056-79350961	1723.16	923.585	-0.899736	12.4761	0	0
<i>Galnt6</i>	chr15:100520345-100559807	28.6016	15.1467	-0.917088	8.31315	0	0
<i>Sfpi1</i>	chr2:90936953-90955913	173.514	91.7849	-0.918724	7.46111	8.57E-14	2.83E-11
<i>Rpap3</i>	chr15:97505535-97536253	34.6962	18.2821	-0.924346	4.96279	6.95E-07	6.00E-05
<i>Pspc1</i>	chr14:57341285-57397153	11.8104	6.05391	-0.964114	3.27153	0.00106966	0.0210881
<i>Mtfmt</i>	chr9:65283588-65300861	18.2302	9.32647	-0.966925	3.69917	0.000216308	0.00653725
<i>Srrm2</i>	chr17:23940153-23966076	7.00695	3.54078	-0.984717	4.79697	1.61E-06	0.000124305
<i>Kansl1l</i>	chr1:66747466-66864169	4.19171	2.05675	-1.02717	4.54553	5.48E-06	0.000344722
<i>St6galnac2</i>	chr11:116538018-116555974	9.15429	4.38576	-1.06162	2.92845	0.00340656	0.0462804
<i>Depdc1a</i>	chr3:159158396-159192919	4.71621	2.2325	-1.07897	3.65102	0.000261197	0.00759265
<i>Cep78</i>	chr19:16030262-16059479	11.4363	5.39995	-1.0826	3.67398	0.000238799	0.00704532
<i>Ddx23</i>	chr15:98475937-98493320	7.13998	3.36406	-1.08572	3.1234	0.00178776	0.0299036

<i>Fdx1</i>	chr9:51751411-51771638	49.1548	23.0683	-1.09142	4.07387	4.62E-05	0.00199703
<i>Tlr4</i>	chr4:66488844-66503830	4.89365	2.28624	-1.09793	3.07608	0.00209741	0.0337188
<i>Gdpd3</i>	chr7:133909927-133919159	124.994	58.0715	-1.10595	6.93341	4.11E-12	1.16E-09
<i>Hddc3</i>	chr7:87488022-87490983	50.9898	23.2996	-1.1299	4.25152	2.12E-05	0.00105481
<i>Ticam2</i>	chr18:46717884-46734187	6.74148	3.04412	-1.14704	3.41636	0.000634654	0.0148107
<i>Specc1</i>	chr11:61890598-62036515	2.54704	1.14999	-1.1472	3.08037	0.0020674	0.033422
<i>Chdh</i>	chr14:30822185-31340242	3.37025	1.51484	-1.15369	3.15427	0.001609	0.0278388
<i>Hyi</i>	chr4:118032603-118081868	36.6414	15.7858	-1.21485	6.71397	1.89E-11	4.77E-09
<i>Serpine2</i>	chr1:79790895-79855240	24.7525	10.6523	-1.21642	5.13803	2.78E-07	2.75E-05
<i>Rab12</i>	chr15:89412957-89422354	20.3025	8.6389	-1.23274	4.25381	2.10E-05	0.00104858
<i>Ramp2</i>	chr11:101107647-101109564	21.4122	8.96245	-1.25646	3.15701	0.00159393	0.0277024
<i>Glb1l</i>	chr1:75188733-75207353	5.57778	2.33013	-1.25928	3.41022	0.00064911	0.0150269
<i>Pus1</i>	chr4:155243675-155265871	14.3026	5.80142	-1.3018	3.2173	0.00129402	0.0241197
<i>Gstcd</i>	chr3:132645514-132754704	5.34288	2.01641	-1.40583	3.22417	0.00126339	0.0237014
<i>Matn2</i>	chr15:34236435-34365995	4.91413	1.60294	-1.61621	3.95088	7.79E-05	0.0030972
<i>Nxpe5</i>	chr5:138667131-138693103	4.34292	1.39817	-1.63513	3.07415	0.00211103	0.033797
<i>Cercam</i>	chr2:29725013-29738360	4.68196	1.50094	-1.64125	3.45299	0.000554413	0.0134254
<i>Mefv</i>	chr16:3707214-3718124	2.14447	0.669348	-1.67979	3.40742	0.000655811	0.0150615
<i>Mcf2</i>	chrX:57309132-57400820	2.78423	0.864931	-1.68662	3.1741	0.00150302	0.0265611
<i>Camk2b</i>	chr11:5869668-5965751	3.46628	1.07498	-1.68908	3.67691	0.000236078	0.00702469
<i>Cx3cl1</i>	chr8:97296079-97306326	2.59786	0.787762	-1.7215	2.91595	0.00354608	0.0477278
<i>Eif2s3y</i>	chrY:347054-365037	35.2661	10.6786	-1.72356	7.20818	5.67E-13	1.73E-10
<i>Vpreb1</i>	chr16:16868493-16869348	20.2586	5.96665	-1.76354	3.6251	0.000288846	0.00821473
<i>Dgke</i>	chr11:88898895-88922062	1.94101	0.53172	-1.86807	3.40219	0.000668479	0.0152016
<i>Cd19</i>	chr7:133551961-133558384	3.26588	0.868795	-1.91038	3.03589	0.00239824	0.0371119
<i>Mcoln3</i>	chr3:145784754-145803610	7.25439	1.85068	-1.9708	3.7567	0.000172168	0.00569386
<i>Fbp1</i>	chr13:62966112-62989596	72.9744	17.6455	-2.04809	9.978	0	0
<i>Gkn3</i>	chr6:87333312-87338929	10.707	2.54102	-2.07507	3.03495	0.00240573	0.037178
<i>Igll1</i>	chr16:16860763-16864078	10.8422	2.2917	-2.24216	3.37325	0.00074286	0.0162544
<i>Pik3r6</i>	chr11:68316520-68366200	4.66747	0.82629	-2.49792	4.77532	1.79E-06	0.000133987
<i>Il7r</i>	chr15:9435913-9459631	2.80551	0.431785	-2.69988	3.87639	0.000106016	0.00390807
<i>Pim1</i>	chr17:29627989-29632404	3.95826	0.557999	-2.82653	3.46841	0.000523546	0.0128937
<i>Rora</i>	chr9:68501608-69226835	5.59228	0.72551	-2.94637	3.94025	8.14E-05	0.00321558
<i>Epb4.2</i>	chr2:120843952-120862491	1.00807	0.117655	-3.09896	2.90342	0.00369108	0.049052
<i>Tmem87a</i>	chr2:120181044-120330655	3.39585	0.394142	-3.10699	4.62858	3.68E-06	0.000249222
<i>Zfp711</i>	chrX:109714134-109748671	1.29502	0.139705	-3.21252	3.50078	0.000463903	0.0117498
<i>Slc18a1</i>	chr8:71561606-71637616	1.08718	0.105024	-3.3718	2.94229	0.00325794	0.0448936
<i>Efhd1</i>	chr1:89160938-89207366	1.32848	0.103139	-3.68711	2.97476	0.00293221	0.0420054
<i>Meiob</i>	chr17:24941326-24976732	3.43716	0.26509	-3.69667	3.592	0.000328147	0.00910864
<i>Arhgap42</i>	chr9:8994952-9260885	0.861903	0.045939	-4.22974	3.38653	0.000707819	0.0157477
<i>Mmp23</i>	chr4:155024763-155027493	1.63896	0.0541973	-4.91841	2.93612	0.0033235	0.045634