

Suppl Table 1

**Dataset S 1A: Genes showing a larger saline to OVA differential in congenic *Tgfbm2/3* than NIH mice**  
 **$\Delta Tgfbm2/3$  S-O >  $\Delta$ NIH S-O**

Probe ID	GeneName	logFC.NIH	logFC. <i>Tgfbm2/3</i>	P.Value.NIH	adj.P.Val. NIH	P.Value. <i>Tgfbm2/3</i>	adj.P.Val. <i>Tgfbm2/3</i>	M = logFC diff	A = logFC avg	Abs(M/A)	Abs logFC ratio	P.Value. Interaction
10545239		-0.308626879	0.884954884	0.018682813	0.12286806	3.31E-006	0.000271807	-1.193581764	0.288164002	4.142022438	0.348748716	5.52E-006
10511252	Ube2j2	0.214618605	-0.56341139	0.095127983	0.319767556	0.000393697	0.008659317	0.778029995	-0.174396393	4.461273443	0.38092699	0.000481689
10358597	Hmcn1	-0.388423691	-1.112229124	0.004145202	0.045489116	1.89E-007	3.32E-005	0.723805433	-0.750326408	0.964654083	0.349229923	0.000521606
10345077	Khdc1a	0.352051612	-0.490643838	0.026536451	0.152927171	0.004014515	0.045744813	0.84269545	-0.069296113	12.16078958	0.717529875	0.000972586
10513266	Olfir267	-0.240282801	0.386461198	0.040249909	0.195291317	0.002849374	0.03608176	-0.626743999	0.073089198	8.575056433	0.621751427	0.00103044
10597918		0.219558404	-0.384416532	0.053696244	0.231176651	0.002589831	0.033790071	0.603974936	-0.082429064	7.327208488	0.571114714	0.00118695
10450892	Olfir113	-0.168825825	0.431256631	0.125663476	0.370154935	0.001070516	0.017877692	-0.600082456	0.131215403	4.573262298	0.391474154	0.00121415
10594798		0.151033808	-0.565898937	0.25129015	0.527243661	0.000593523	0.011602855	0.716932745	-0.207432564	3.456220808	0.266891839	0.00141939
10358601	Hmcn1	-0.607546672	-1.277179193	0.000299953	0.007020476	1.30E-007	2.52E-005	0.669632521	-0.942362933	0.710588774	0.475694151	0.00219577
10578320	Gm8423	0.186842209	-0.510445181	0.176591466	0.440927952	0.001802303	0.026018849	0.69728739	-0.161801486	4.309524029	0.366037758	0.00232055
10544638	Tra2a	0.014222311	-0.658015536	0.911973971	0.963790674	0.000164515	0.004565155	0.672237847	-0.321896612	2.088365707	0.021613944	0.00233377
<b>10493856</b>	<b>Sprr2a</b>	<b>0.742792311</b>	<b>1.394091407</b>	<b>4.61E-005</b>	<b>0.001816896</b>	<b>4.57E-008</b>	<b>1.15E-005</b>	<b>-0.651299096</b>	<b>1.068441859</b>	<b>6.09578416</b>	<b>0.53281464</b>	<b>0.00265313</b>
<b>10493858</b>	<b>Sprr2a</b>	<b>0.742792311</b>	<b>1.394091407</b>	<b>4.61E-005</b>	<b>0.001816896</b>	<b>4.57E-008</b>	<b>1.15E-005</b>	<b>-0.651299096</b>	<b>1.068441859</b>	<b>6.09578416</b>	<b>0.53281464</b>	<b>0.00265313</b>
10435787		-0.332610547	-1.19556279	0.066676032	0.262410361	6.88E-006	0.000441899	0.862952243	-0.764086668	1.129390524	0.278204164	0.00280757
10562603		0.095986434	0.718592734	0.4477484	0.701381378	5.50E-005	0.002025707	-0.6226063	0.407289584	1.528657555	0.13357557	0.00327362
<b>1059043</b>	<b>Muc5ac</b>	<b>0.558372248</b>	<b>1.121930009</b>	<b>0.000228636</b>	<b>0.00578846</b>	<b>1.54E-007</b>	<b>2.85E-005</b>	<b>-0.563557761</b>	<b>0.840151129</b>	<b>0.670781412</b>	<b>0.497689022</b>	<b>0.0032878</b>
10349968	Chi3l1	1.632572291	2.337826058	2.61E-008	7.34E-006	3.17E-010	4.07E-007	-0.705253767	1.985199174	0.355255924	0.698329238	0.00330373
10403750	2810021B07Rik	0.059977515	-0.549992367	0.633668458	0.823699536	0.000619501	0.01193795	0.609969882	-0.245007426	2.48959753	0.109051541	0.00382426
10523156	Cxcl2	0.044259943	0.73452155	0.756103217	0.887631667	0.00015095	0.004276583	-0.690261608	0.389390746	1.772670805	0.060256833	0.00390593
10379518	Ccl7	0.865467699	1.42521818	4.03E-006	0.000303833	1.28E-008	5.06E-006	-0.559750481	1.14534294	0.488718672	0.607252778	0.00422167
10423791	4930447A16Rik	-0.342724011	-0.882022132	0.009341477	0.078962268	2.72E-006	0.000235327	0.539298121	-0.612373071	0.880669229	0.388566226	0.00482045
10564417	Aldh1a3	0.090381884	0.577863366	0.393944672	0.659391708	7.99E-005	0.002662231	-0.487481483	0.334122625	1.458989743	0.156407014	0.00507289
10417144	Timm8a2	-0.134653296	0.3502912	0.210181948	0.482480796	0.00446472	0.049373163	-0.484944496	0.107818952	4.497766743	0.384403879	0.00513126
10484704	Olfir1157	0.138568789	-0.392880158	0.238686321	0.513933436	0.003885088	0.045021032	0.531448947	-0.127155685	4.179513866	0.352699891	0.00520782
10497077		0.162836143	-0.434709034	0.219497777	0.492746978	0.00433975	0.048452674	0.597545177	-0.135936446	4.395768722	0.374586516	0.00522562
10537296		-0.25971914	-0.834868034	0.052162303	0.227783057	1.12E-005	0.000630904	0.575148895	-0.547293587	1.050896463	0.311090051	0.00524188
10543460	6332401O19Rik	0.149801926	0.641293428	0.173580122	0.436980637	3.36E-005	0.001381778	-0.491491502	0.395547677	1.242559445	0.233593422	0.00530081
<b>10499899</b>	<b>Sprr1a</b>	<b>0.878605495</b>	<b>1.46964131</b>	<b>9.33E-006</b>	<b>0.000554173</b>	<b>2.75E-008</b>	<b>8.21E-006</b>	<b>-0.591035814</b>	<b>1.174123403</b>	<b>0.503384749</b>	<b>0.59783669</b>	<b>0.00547029</b>
10542317	Cdkn1b	-0.047808316	-0.574992646	0.677395952	0.847969937	0.000194987	0.005170368	0.527184331	-0.311400481	1.692946423	0.08314596	0.00552585
10601844	Bhlhb9	0.094062224	-0.447094724	0.434750386	0.691924135	0.00206854	0.028731216	0.541156948	-0.17651625	3.065762777	0.210385449	0.00596235
10583418	Olfir857	0.090938763	-0.465604872	0.462183982	0.712611209	0.001887871	0.026906091	0.556543634	-0.187333054	2.970877917	0.195313169	0.00596416
10548345	Klrk1	0.010884142	0.57276359	0.929841968	0.972186706	0.000393641	0.008659317	-0.561879448	0.291823866	1.925406086	0.019002853	0.0059843
10415608	Ift88	0.025646738	-0.460890208	0.812116093	0.915596955	0.000766803	0.013978906	0.486536946	-0.217621735	2.23570015	0.05564609	0.0062522
10493831	S100a8	-0.738487168	-1.42162911	0.000253751	0.006250291	2.91E-007	4.55E-005	0.683141942	-1.080058139	0.632504786	0.519465424	0.00629861
10549982	V1rg2	0.02884898	0.50491797	0.786581983	0.902311142	0.000320682	0.007449103	-0.47606899	0.266883475	1.783808421	0.057135974	0.00660843
10584514	Olfir972	-0.123091326	0.394849113	0.302905312	0.581827557	0.004363481	0.048590818	-0.51794044	0.135878894	3.811779934	0.311742694	0.00705435
10472398	Scn2a1	0.056859948	0.550510035	0.613493973	0.81144854	0.000235758	0.005956189	-0.493650088	0.303684992	1.625533371	0.103285942	0.00725462
10581917	4932417116Rik	0.079304828	-0.37185617	0.446421842	0.700403068	0.002749636	0.035119592	0.451160998	-0.146275671	3.084320135	0.213267478	0.00751859
10379511	Ccl2	0.798013652	1.364428694	3.98E-005	0.0016212	1.15E-007	2.24E-005	-0.566415041	1.081221173	0.523866028	0.584870178	0.00943921
10403036	Igh	0.192608312	2.085028809	0.674120547	0.845934172	0.000444609	0.009457121	-1.892420497	1.138818561	1.661740125	0.092376811	0.0104313
10358599	Hmcn1	-0.438464447	-1.005757625	0.006193793	0.059902889	4.55E-006	0.000328193	0.567293178	-0.722111036	0.785603806	0.435954385	0.0105742
10587799	Plscr2	-0.915679276	-1.451095787	6.89E-006	0.000440098	3.72E-008	1.01E-005	0.535416511	-1.183387532	0.452443934	0.631026073	0.0107456
10436596	2810055G20Rik	0.063063646	-0.407415363	0.592565049	0.798958925	0.003576798	0.042433065	0.47047901	-0.172175859	2.732549229	0.154789563	0.0125108
10356329	Ncl	0.096463107	-0.605256699	0.586343354	0.795057546	0.003886809	0.045021032	0.701719806	-0.254396796	2.758367307	0.159375529	0.0131011
10420497	Gm6907	0.180982084	0.683231335	0.167710797	0.429940832	9.81E-005	0.003071409	-0.50224925	0.432106709	1.162326896	0.26489137	0.0131825
10438423	Olfir165	0.041947549	0.590290509	0.762325491	0.89040115	0.000785626	0.014201021	-0.548342961	0.316119029	1.734609152	0.071062549	0.0134895
10396419		-0.250244653	-0.821273611	0.10175305	0.331218276	6.31E-005	0.002249824	0.571028958	-0.535759132	1.065831498	0.304703146	0.0138657
10422699		-0.061967684	-0.50194977	0.5817742	0.7924554	0.000515329	0.010482369	0.439982087	-0.281958727	1.560448549	0.123453954	0.013988
10404341	Pri4a1	0.040007552	-0.369544295	0.701932752	0.860646185	0.003128142	0.03863963	0.409551847	-0.164768371	2.485621746	0.108261858	0.0140883
10367591	Myc1	-0.278303366	-0.781701624	0.0458066	0.211164477	3.16E-005	0.001317706	0.503398258	-0.530002495	0.949803563	0.356022499	0.0143323
10591614	Dock6	-0.702324799	-1.33737737	0.000724081	0.0113361398	1.34E-006	0.000140131	0.635052571	-1.019851085	0.62269147	0.525150803	0.0147848

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10591630	Dock6	-0.233177954	-0.700304188	0.069326394	0.268093583	4.80E-005	0.001835198	0.467126234	-0.466741071	1.000825218	0.332966671	0.0148904
10431585	Chkb	0.052689601	-0.39134669	0.6466413	0.830688599	0.004003783	0.045675152	0.444036291	-0.169328544	2.622335724	0.134636634	0.0150892
10358619	Hmcn1	-0.354594943	-0.860324706	0.015795846	0.110304664	1.38E-005	0.00072461	0.505729763	-0.607459824	0.832532035	0.412164082	0.0150994
10458046	D0H4S114	0.03566805	-0.415101492	0.759463406	0.888833974	0.002981198	0.0037382211	0.450769542	-0.189716721	2.376013775	0.085926095	0.0151472
10358633	Hmcn1	-0.729019982	-1.212853105	4.72E-005	0.00184828	1.94E-007	3.33E-005	0.483833123	-0.970936543	0.498315905	0.601078547	0.0151679
10534966	Zfp113	0.015664575	-0.451765541	0.897030459	0.95676885	0.002168603	0.02971901	0.467430115	-0.218050483	2.143678423	0.034674125	0.0154377
10364153	Gm9744	-0.068679615	-0.516050468	0.556873574	0.775716998	0.000559162	0.011091639	0.447370853	-0.292365042	1.530179018	0.133087013	0.0156495
10358513	Hmcn1	-0.489354992	-0.950144971	0.001092346	0.017927332	1.91E-006	0.000179184	0.460789979	-0.719749982	0.640208392	0.515031924	0.0156927
10476880	A530006G24Rik	-0.08758387	-0.573198774	0.493598692	0.7341944	0.00048396	0.010034153	0.485614904	-0.330391322	1.469817368	0.152798426	0.0161293
10417759	Ube2e2	-0.005370332	-0.433050302	0.961878951	0.986077611	0.001716554	0.0251057	0.42767997	-0.219210317	1.951002926	0.012401174	0.0166886
<b>10520452</b>	<b>Il6</b>	<b>1.487872173</b>	<b>2.096939886</b>	<b>3.40E-007</b>	<b>5.07E-005</b>	<b>5.75E-009</b>	<b>2.80E-006</b>	<b>-0.609067713</b>	<b>1.792406029</b>	<b>0.339804544</b>	<b>0.709544505</b>	<b>0.0170863</b>
10601846	2900062L11Rik	-0.469866617	-0.950115226	0.002371368	0.031046342	3.80E-006	0.000292666	0.48024861	-0.709990921	0.676415142	0.494536456	0.0175751
10366346	Phlda1	0.340056763	0.779696851	0.011511645	0.089866456	1.37E-005	0.000721632	-0.439640088	0.559876807	0.785244329	0.436139716	0.0186651
10488409	9230104L09Rik	-0.784130851	-1.183308887	5.12E-006	0.000359269	4.79E-008	1.18E-005	0.399178035	-0.983719869	0.405784256	0.66265948	0.0195345
10601303	Chic1	-0.270328689	-0.68108844	0.028406416	0.158672272	3.12E-005	0.00130617	0.410759751	-0.475708565	0.86346932	0.396906882	0.0200681
10499861	S100a9	-0.453022035	-1.068838908	0.017448446	0.117612056	2.23E-005	0.001025495	0.615816873	-0.760930471	0.809294537	0.423845007	0.0213374
10584580		-0.028383148	-0.507507803	0.830112491	0.92395505	0.001764965	0.025652954	0.479124655	-0.267945475	1.788142362	0.055926525	0.0214149
10409276		0.292441238	0.97868921	1.139844451	0.392286294	0.000151753	0.004285143	-0.686247972	0.635565224	1.07974437	0.298890906	0.0215909
10358605	Hmcn1	-0.493107952	-0.899386403	0.000617365	0.011968679	1.74E-006	0.000169011	0.40627845	-0.696247177	0.583526172	0.548271522	0.0216153
10496539	Gbp5	0.29039572	0.930676987	0.118389519	0.358478491	0.000128525	0.003805064	-0.640281267	0.610536354	1.048719315	0.312026325	0.0216917
10514645		-0.000192927	0.386778567	0.998563331	0.999341998	0.002758257	0.035170859	-0.386971494	0.19329282	2.001996213	0.000498804	0.0218155
10403303	Akr1c13	0.088967939	0.515307856	0.456963715	0.708079371	0.000660058	0.012485169	-0.426339918	0.302137898	1.411077264	0.172650072	0.0220463
10453057	Cyp11b1	0.358808453	0.805121671	0.011393476	0.089460495	1.67E-005	0.000828415	-0.446313218	0.581965062	0.766907238	0.445657428	0.02245
10508972	Gms589	-0.104180193	-0.538587337	0.398136688	0.662434206	0.000574022	0.011333853	0.434407144	-0.321383765	1.351677312	0.193432311	0.0229822
10358591	Hmcn1	-0.362344863	-0.772569208	0.006836559	0.064177196	1.17E-005	0.000645914	0.410224345	-0.567457035	0.722917013	0.46901282	0.0233342
10358607	Hmcn1	-0.537881328	-0.985511764	0.000793021	0.01431453	2.32E-006	0.000207553	0.447360435	-0.761696546	0.587675548	0.545788846	0.0239296
10387733	Eif5a	0.249085199	0.660673572	0.048638187	0.218412348	6.41E-005	0.002275597	-0.411588372	0.454879386	0.904829687	0.377017048	0.0245551
10359582	Fmo2	-0.952471273	-1.527583879	4.76E-005	0.001855733	3.00E-007	4.63E-005	0.575112606	-1.240027576	0.463790175	0.623514876	0.0246115
10574023	Mi2	0.651685525	1.358669825	0.005926224	0.058003949	1.16E-005	0.0006449	-0.7069843	1.005177675	0.703342621	0.479649664	0.0256706
10400072	Scin	0.947785714	1.348437471	1.24E-006	0.000129236	2.06E-008	6.60E-006	-0.400651757	1.148111592	0.348965867	0.702877022	0.0257701
10587446	Myo6	-0.454417551	-0.818674954	0.000707016	0.013103023	2.39E-006	0.000212202	0.364257403	-0.636546253	0.572240276	0.555064679	0.0267446
10435841	Ccdc52	-0.001894437	-0.434016784	0.987918961	0.995637987	0.003631232	0.042853963	0.432122347	-0.21795561	1.982616303	0.004364894	0.0270569
10523138	Cxcl3	0.489733906	0.915214822	0.001360667	0.020851109	3.96E-006	0.000298636	-0.425480915	0.702474364	0.605688886	0.535102683	0.0270711
10358672	Hmcn1	-0.156409892	-0.521863867	0.156882825	0.415269501	0.000235059	0.005956077	0.365453975	-0.33913688	1.077600216	0.299713972	0.0274588
10421950	Dach1	-0.113261935	-0.478059751	0.295578889	0.575105963	0.0004983206	0.010184722	0.364797816	-0.295660843	1.233838786	0.23692004	0.0274594
10384229		-0.123867057	-0.563869835	0.344520635	0.618186345	0.000630777	0.01210074	0.440002778	-0.343868446	1.279567182	0.219673139	0.0284099
10536593	Tsen15	-0.169941407	-0.595663201	0.187966766	0.455464075	0.000302498	0.007110369	0.425721794	-0.382802304	1.112119204	0.285297811	0.0285429
10376326	Irgm2	0.189596197	0.719569434	0.237159594	0.512219744	0.000408913	0.008897584	-0.529973237	0.454582815	1.165845297	0.263485618	0.0292019
10358593	Hmcn1	-0.437452226	-0.984874438	0.015970145	0.111059791	3.02E-005	0.00127416	0.547422212	-0.711163332	0.769755958	0.444170555	0.0292514
10368240	Tcf21	-0.477779844	-0.835608792	0.000475477	0.009930462	1.95E-006	0.000182344	0.357828948	-0.656694318	0.544894235	0.571774554	0.0293494
10491617	4932438A13Rik	-0.046545203	-0.405379238	0.664999325	0.841135091	0.001961292	0.027645489	0.358834035	-0.22596222	1.588026681	0.114818912	0.0311208
10393662	Nptx1	-0.167586761	-0.523477415	0.132728005	0.381379428	0.000236224	0.005956189	0.355890654	-0.345532088	1.029978593	0.32014134	0.0315433
10403834	Sfrp4	0.005600388	0.413494882	0.963494724	0.986595228	0.00432843	0.04838944	-0.407894494	0.209547635	1.946547831	0.013544032	0.0318495
10422942		-0.067190216	-0.724939023	0.734982008	0.877465962	0.002498882	0.033022218	0.657748807	-0.39606462	1.660710838	0.092683956	0.0323847
10384504	Meis1	-0.221959049	-0.597053641	0.067074844	0.263330537	0.000125171	0.003727264	0.375094593	-0.409506345	0.915967719	0.371757298	0.0328229
10402757	A730018C14Rik	-0.075989107	-0.457464481	0.515840931	0.749938283	0.001442647	0.022266902	0.381475374	-0.266726794	1.430210171	0.166109305	0.0338102
10595404	Fam46a	0.294305074	0.633915533	0.012784267	0.096371972	3.12E-005	0.001304522	-0.33961046	0.464110304	0.731745141	0.46426544	0.0350178
10397984	Ppp4r4	-0.69881753	-1.124578073	0.000107824	0.003326464	7.66E-007	9.59E-005	0.425760543	-0.911697801	0.466997444	0.621404193	0.0350192
10559095	Muc5b	0.384602549	0.921801379	0.033194793	0.174099703	7.11E-005	0.002425023	-0.53719883	0.653201964	0.822408474	0.417229305	0.0350682
10513145	Ptpn3	-0.30111147	-0.438147485	0.809983879	0.91476004	0.003399788	0.041046923	0.408036015	-0.234129478	1.742779335	0.068724507	0.0350788
10545569	Reg3g	1.962911095	3.066181935	5.12E-005	0.001960388	4.43E-007	0.31E-005	-1.10327084	2.514546515	0.438755391	0.640180895	0.0354176
<b>10480459</b>	<b>Hnmt</b>	<b>-0.181036336</b>	<b>-0.54755857</b>	<b>0.130068679</b>	<b>0.377115425</b>	<b>0.000293544</b>	<b>0.006970102</b>	<b>0.366522234</b>	<b>-0.364297453</b>	<b>1.006107044</b>	<b>0.330624606</b>	<b>0.0376644</b>
10387855	Alox15	0.355375478	0.849610159	0.035084624	0.17978681	8.20E-005	0.002719755	-0.494234681	0.602492819	0.820316301	0.418280637	0.0377307
10358631	Hmcn1	-0.545280699	-0.948060968	0.000684686	0.012816153	3.37E-006	0.000273046	0.402780269	-0.746670834	0.53943485	0.575153622	0.0379584
10476297		-0.097885383	-0.460462759	0.396447669	0.661381695	0.00118691	0.019221196	0.362577376	-0.279174071	1.298750181	0.212580456	0.0388349
10500529	Phgdh	-0.118376865	-0.490025749	0.322481158	0.599510853	0.000927065	0.016081915	0.371648883	-0.304201307	1.221720207	0.241572745	0.0398315

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10538305	5730596B20Rik	-0.051627421	-0.416174132	0.655775223	0.836850525	0.002771208	0.03526592	0.364546711	-0.233900777	1.558552803	0.124052451	0.0402235
10447461	Ston1	-0.45354488	-0.863285414	0.003532584	0.040656533	1.32E-005	0.000707672	0.409740535	-0.658415147	0.622313348	0.52537072	0.0409393
10476725	Gm561	-0.087960747	-0.532223054	0.538707595	0.76445011	0.002109616	0.029097058	0.444262307	-0.3100919	1.432679494	0.165270456	0.0419546
10577230	Erich1	-0.120985795	-0.522431725	0.354335306	0.625721726	0.001138233	0.018632754	0.40144593	-0.32170876	1.24785514	0.231582022	0.042078
10358549	Hmnc1	-0.288532467	-0.675273653	0.033652725	0.175510725	9.17E-005	0.0029289	0.386741186	-0.48190306	0.802529012	0.427282281	0.0423741
10590620	Ccr9	0.34753463	0.770791254	0.02146376	0.133797033	6.15E-005	0.002212614	-0.423256624	0.559162942	0.756946843	0.45088035	0.0423979
10392010	1700081L11Rik	-0.189246961	-0.587481619	0.154808901	0.412567205	0.000419542	0.009064647	0.398234658	-0.38836429	1.025415231	0.322132565	0.0425512
10533858	Elf2b1	0.230102633	0.573737215	0.053676429	0.231130107	0.000144979	0.004181271	-0.343634581	0.401919924	0.854982699	0.401059278	0.0431708
10358547	Hmnc1	-0.424981413	-0.863502434	0.008957634	0.076590458	3.00E-005	0.001273293	0.438521021	-0.644241924	0.68067756	0.492160064	0.0432758
10607752	Bmx	-0.397839767	-0.759456539	0.0040779	0.044884881	1.59E-005	0.00080144	0.361616772	-0.578648153	0.62493377	0.523847971	0.0436067
10475350	Serf2	-0.035483479	-0.426955389	0.779807971	0.898150901	0.004416373	0.049030905	0.391471909	-0.231219434	1.693075287	0.083108166	0.0442031
10407124	Al452195	-0.035302091	-0.393221045	0.761720853	0.890055576	0.004292286	0.048090089	0.357918954	-0.214261568	1.670476684	0.089776709	0.044749
10351509	Fcgr4	0.298649122	0.753264457	0.061135709	0.249242594	0.00017861	0.004841154	-0.454615334	0.525956789	0.864358714	0.396473137	0.0459619
10450325	Cfb	0.864120024	1.230305129	5.46E-006	0.000375774	1.02E-007	2.07E-005	-0.366185105	1.047212576	0.349676	0.702362368	0.0462428
10474201	Lmo2	-0.160123918	-0.495983021	0.161781907	0.421756854	0.000497949	0.010237815	0.335859103	-0.328053469	1.023793784	0.322841531	0.0464435
10481949	Traf1	-0.056434578	-0.409188528	0.628384925	0.820499758	0.003250727	0.039808993	0.352753951	-0.232811553	1.515190917	0.137918279	0.0472172
10509568	Camk2n1	-0.575034327	-0.894901175	8.99E-005	0.002919689	8.99E-007	0.000105337	0.319866847	-0.734967751	0.435212085	0.642567407	0.0473349
10422244	Slitrk6	-0.463730467	-0.870234572	0.003700973	0.041959615	1.64E-005	0.00081651	0.406504105	-0.66698252	0.609467404	0.53879849	0.047655
10380398	Chad	0.076921463	0.64779241	0.684466199	0.851495277	0.003892951	0.045051514	-0.570870947	0.362356936	1.575438164	0.118744002	0.0480754
10485117	Creb3l1	0.227087167	0.587709999	0.074456278	0.278876949	0.000232574	0.005912207	-0.360622832	0.407398583	0.885184305	0.386393234	0.0484124
10598093	Gm9904	0.982212038	1.394112716	5.52E-006	0.000378821	1.07E-007	2.12E-005	-0.411900678	1.188162377	0.34667036	0.704542772	0.0484235
10412646		-0.046501282	-0.360856598	0.658012282	0.837654708	0.003780589	0.044129223	0.314355316	-0.20367894	1.543386449	0.128863605	0.0494748
10431625	Syt10	-0.226655595	-0.554495117	0.054104674	0.232506074	0.000175658	0.004781312	0.327839523	-0.390575356	0.839375853	0.408760308	0.0495465
10373452	Gm129	-0.1971475	-0.601921055	0.160591877	0.420062398	0.000547425	0.01092335	0.404773555	-0.399534278	1.013113462	0.327530493	0.0499698
10580635	Ces3	-0.683016615	-1.103408629	0.00263859	0.006379068	2.20E-006	0.000200543	0.420392014	-0.893212622	0.470651672	0.619006648	0.0506127
10601578		-0.114171918	-0.4374161	0.302084768	0.581034981	0.001205142	0.019455082	0.323244182	-0.275794009	1.172049325	0.261014439	0.0507807
10468877		0.166158791	0.491081291	0.143844664	0.397919497	0.000496219	0.010222269	-0.324922501	0.328620041	0.988748281	0.338352924	0.0508553
10436600		-0.277898055	-0.761105874	0.103795611	0.334659685	0.000349449	0.007881945	0.483207819	-0.519501964	0.930136655	0.365124044	0.0508636
10461906		-0.053850178	-0.382351681	0.627796235	0.820023091	0.003706941	0.043506975	0.328501503	-0.21810093	1.506190294	0.140839391	0.0516516
10439514	Gap43	-0.25704478	-0.601909096	0.041874018	0.200265006	0.00014627	0.004190255	0.344864316	-0.429476938	0.802986809	0.42704917	0.0518018
10531972	5830443L24Rik	0.556961411	1.000718146	0.002216819	0.029590781	1.20E-005	0.00065904	-0.443756735	0.778839778	0.569766398	0.556561718	0.0520453
10519913	Magi2	-0.087323183	-0.421943455	0.444588887	0.698818589	0.002154129	0.029536427	-0.254633319	1.314126027	0.206954705	0.0521858	0.0521858
10565994	Art2b	0.387733817	0.82695601	0.01965874	0.126593208	7.57E-005	0.002549714	-0.439222193	0.607344914	0.723184114	0.468868733	0.0528671
10381649	Higd1b	-0.236842512	-0.558893971	0.045405081	0.210143821	0.000163093	0.004530606	0.322051458	-0.397868242	0.809442486	0.423770026	0.053072
10427606	Skp2	0.22384638	0.540176996	0.053088495	0.229877315	0.00019015	0.005078841	-0.316330616	0.382011688	0.828065281	0.414394507	0.0532421
10384824	Ncrna00117	0.121968736	0.488544994	0.336686112	0.611178155	0.001513932	0.022885524	-0.366576258	0.305256865	1.200878013	0.24965712	0.0537606
10403743	Inhba	0.555042715	1.007301702	0.002801549	0.034753541	1.52E-005	0.000778102	-0.452258986	0.781172209	0.57894915	0.551019337	0.054194
10472050	Tnfaip6	0.366089644	0.700476777	0.006241223	0.060202441	3.02E-005	0.001274448	-0.334387133	0.53328321	0.627034803	0.522629238	0.0555135
10455961	ligp1	0.810652389	1.299976865	0.000279043	0.006650396	2.56E-006	0.000223835	-0.489324476	1.055314627	0.46367639	0.623589858	0.0559441
10518781	Per3	-0.115751026	-0.492597714	0.378958617	0.647169945	0.001898318	0.026965154	0.376846689	-0.30417437	1.238916641	0.234980842	0.0560776
10423894	Tm7sf4	0.205635915	0.552964946	0.103066587	0.333246532	0.000400775	0.0087699	-0.347329031	0.37930043	0.915709563	0.371878753	0.0563904
10531987	Gbp4	0.193364838	0.538110732	0.122848228	0.366020699	0.000500716	0.01026547	-0.344745894	0.365737785	0.942603986	0.359340237	0.0578133
10409278	Nfil3	1.099380752	1.562607833	9.41E-006	0.000555348	1.90E-007	3.32E-005	-0.46322708	1.330994293	0.348030854	0.703555127	0.0578228
10350341		-0.270409812	-0.636927367	0.04935365	0.220245579	0.000200005	0.005281616	0.366517554	-0.45366859	0.807897136	0.424553609	0.0581553
10607116	Ammecr1	0.464431144	0.83412701	0.002709456	0.034010259	1.62E-005	0.000810182	-0.369695865	0.649279077	0.569394392	0.556787083	0.0581677
10358635	Hmnc1	-0.176422771	-0.52481782	0.162667297	0.42316248	0.000708303	0.013203131	0.348395049	-0.350620296	0.9936534	0.336160024	0.0592405
10571747		-0.245907969	-0.60377679	0.065848115	0.260493434	0.000272089	0.006594888	0.35786882	-0.424842379	0.842356669	0.407282912	0.0592799
10578138	Dctn6	-0.078638512	-0.428820205	0.523213982	0.754995306	0.003355222	0.04061371	0.350181693	-0.253729359	1.380138643	0.183383412	0.0593098
10536216	Gng11	-0.347749529	-0.665522972	0.007112149	0.065824131	3.72E-005	0.001491249	0.317773443	-0.506636251	0.627222079	0.5225207	0.0599969
10361366	Mtrf11	-0.074525105	-0.402151027	0.520494264	0.753201032	0.003444732	0.041414226	0.327625923	-0.238338066	1.374626925	0.185316211	0.0606975
10358561	Hmnc1	-0.623339269	-1.007466008	0.000406783	0.008829746	3.78E-006	0.000292666	0.384126739	-0.815402638	0.471088418	0.618719901	0.0609757
10488804	Gm14214	-0.108555545	-0.564227165	0.503664476	0.741330338	0.003372953	0.040781121	0.45567162	-0.336391355	1.354587782	0.192396878	0.0619783
10595109	Lrrc1	-0.082392624	-0.517567549	0.594645432	0.800176091	0.004483778	0.049479626	0.435174925	-0.299980087	1.450679375	0.159192021	0.0624453
10494085	Senlenp2	-0.420203124	-0.724182543	0.001558086	0.02283126	1.13E-005	0.000634406	0.30397942	-0.572192833	0.531253455	0.580244756	0.062583
10454601	Tslp	-0.281601328	-0.613739321	0.030659616	0.165782815	0.00014664	0.004196174	0.332137993	-0.447670324	0.741925419	0.458828884	0.0643
10435704	Cd80	0.251709226	0.569475628	0.041507302	0.199253679	0.000196078	0.005193932	-0.317766402	0.410592427	0.773921732	0.442001753	0.0646307

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10503376	Gm11818	-0.308370427	-0.600701929	0.010200563	0.083597721	5.65E-005	0.002068608	0.292331502	-0.454536178	0.64314243	0.513350152	0.0654558
10438053	Dppa2	-0.130523057	-0.531193789	0.371586919	0.641350662	0.002339426	0.031359263	0.400670732	-0.330858423	1.211003572	0.245716459	0.065736
10354370		0.13732318	0.42251138	0.194563586	0.462998829	0.001016451	0.017221305	-0.2851882	0.27991728	1.01883028	0.325016523	0.0657857
10551791	Zfp420	-0.090799089	-0.41740413	0.044435234	0.698705431	0.003060777	0.038100885	0.326605041	-0.25410161	1.285332436	0.2175328	0.0660639
10358595	Hmcn1	-0.559574169	-0.880584046	0.000267687	0.006445571	2.99E-006	0.000253133	0.321009877	-0.720079107	0.445798071	0.635457991	0.066365
10416700	Pcdh17	-0.126664287	-0.429644522	0.257867044	0.534733501	0.001463699	0.02234992	0.302980235	-0.278154404	1.089251976	0.294811828	0.0666191
10395466	Dock4	-0.128363649	-0.420684347	0.238974671	0.514123029	0.001380794	0.021589501	0.292320697	-0.274523998	1.064827481	0.305130558	0.0683204
10406941	Sgtb	-0.310551984	-0.635630431	0.018980002	0.123964046	0.000104533	0.003232725	0.325078447	-0.473091207	0.687136945	0.488573185	0.0690693
10385500	Irgm1	0.13053367	0.560229798	0.4101417	0.672384056	0.002907056	0.036685505	-0.429696128	0.345381734	1.244119436	0.233000227	0.069095
10477495	U46068	0.862615976	1.445210307	0.001153432	0.018653282	1.01E-005	0.000589577	-0.582594331	1.153913142	0.504885775	0.596879203	0.0695522
10485170	Cry2	-0.162893893	-0.526096067	0.234162559	0.509061113	0.001421125	0.022080771	0.363202174	-0.34449498	1.054303239	0.309627659	0.070846
10502156	Ccdc109b	0.134422351	0.437196502	0.238934372	0.514115038	0.00146203	0.022341715	-0.302774151	0.285809427	1.059356768	0.30746438	0.0709988
10529937	Kcnp4	-0.303144645	-0.605401199	0.015771204	0.110243807	9.43E-005	0.002988605	0.302256553	-0.454272922	0.66536335	0.500733474	0.0723176
10569020	Ifitm6	-0.109829342	-0.457679592	0.399213755	0.66314782	0.003022172	0.037737395	0.34785025	-0.283754467	1.225884669	0.239969934	0.0727503
10549222	Bcat1	0.241653623	0.526105124	0.035906971	0.182254325	0.00020418	0.005331533	-0.284451502	0.383879374	0.740991887	0.459325735	0.0734381
10503602	Fbxl4	-0.075800841	-0.354230895	0.468458174	0.716793852	0.00396979	0.04546033	0.278430054	-0.215015868	1.294927935	0.213987097	0.074357
10469816	Il1rn	0.913083844	1.355729098	7.86E-005	0.002678353	1.30E-006	0.000138095	-0.442645254	1.134406471	0.390199867	0.673500218	0.0748968
10479726	Pcmdt2	-0.089837479	-0.388978252	0.42618609	0.684276299	0.003492539	0.041771998	0.299140773	-0.239407866	1.249502693	0.230957589	0.0751009
10369023	Fam162b	-0.469770048	-0.79139977	0.001555447	0.022814408	1.43E-005	0.000742515	0.321629722	-0.630584909	0.510049825	0.593593864	0.0759968
10516229	Utp11l	0.192184259	0.486745109	0.10156399	0.331030174	0.000635181	0.012167039	-0.29456085	0.339464684	0.867721631	0.394835522	0.0784978
10358623	Hmcn1	-0.591290478	-1.074632239	0.005738523	0.056805692	4.41E-005	0.001714524	0.48334176	-0.832961359	0.580269127	0.550225889	0.0788479
10427471	Gucy1	0.094802505	0.399921227	0.417716372	0.678089035	0.003671107	0.043204941	-0.305118722	0.247361866	1.233491349	0.237052946	0.0791016
10498935	Osmr1b3	-0.521939878	-0.833801025	0.000604462	0.011821953	7.10E-006	0.000453252	0.311861147	-0.677870452	0.460060099	0.625976536	0.0802878
10603887	Zfp300	-0.147325969	-0.50809086	0.294663406	0.574153114	0.002341603	0.031369658	0.360764892	-0.327708415	1.100871616	0.289959887	0.0810984
10359571	Fmo1	-0.867580068	-1.228297685	2.20E-005	0.001044354	5.15E-007	7.03E-005	0.360717617	-1.047938877	0.344216275	0.706327203	0.0812328
10358557	Hmcn1	-0.350691402	-0.654289155	0.008928352	0.076365523	6.87E-005	0.002374475	0.303597753	-0.502490279	0.604186321	0.535988407	0.0827977
10587776		-0.103766367	-0.426615493	0.411080132	0.673229473	0.003957388	0.045428554	0.322849126	-0.26519093	1.217421446	0.243231596	0.084335
10351667	Slamf1	0.217142704	0.525961115	0.085997812	0.301594504	0.000593183	0.011602855	-0.308818411	0.371551909	0.831158187	0.412849349	0.0844319
10466104	Ccdc86	0.196485067	0.489031217	0.009522632	0.027422062	0.000693708	0.012997149	-0.292546149	0.342758142	0.853506054	0.401784305	0.08455
10497613	Gm10258	-0.27955426	-0.58080412	0.02916126	0.161108745	0.000204862	0.005343912	0.301249859	-0.43017919	0.700289243	0.481322792	0.0845724
10455970	BC023105	1.045390576	1.796038755	0.002776761	0.034601226	2.63E-005	0.00115061	-0.750648179	1.420714666	0.528359563	0.582053462	0.0845937
10358650	Hmcn1	-0.56754527	-0.843623286	0.000115385	0.003495865	2.01E-006	0.000186644	0.276078017	-0.705584278	0.391275749	0.672747278	0.0849214
10534935	Pilrb1	-0.160909255	-0.474087116	0.198548488	0.468141715	0.001526405	0.02302449	0.313177861	-0.317498186	0.986392599	0.339408623	0.0849399
10345089		-0.22322588	-0.525813492	0.074554387	0.279162947	0.000524876	0.010591603	0.302587612	-0.374519686	0.807935132	0.424534333	0.0859228
10403031	V165-D-J-C mu	0.182516652	0.526639457	0.187697818	0.454898273	0.001468013	0.022375858	-0.344122805	0.354578054	0.970513545	0.34656851	0.0865415
10603109	Piga	0.199069457	0.570114838	0.183232154	0.449594009	0.001430831	0.022191285	-0.371045381	0.384592147	0.964776281	0.349174312	0.086713
10558694	Scgb1c1	-0.899047387	-1.323539198	9.28E-005	0.002978095	1.73E-006	0.000169011	0.424491811	-1.111293292	0.381979999	0.679275225	0.0867427
10357345	E030049G20Rik	-0.388508767	-0.729804421	0.010581457	0.085272218	8.50E-005	0.002783083	0.341295654	-0.559156594	0.610375801	0.532346415	0.0868248
10514732	Slc35d1	0.10026437	0.421259244	0.42888973	0.686930088	0.004449584	0.049324266	-0.320994874	0.260761807	1.230988841	0.238011085	0.0873376
10587226	Lysmd2	-0.393601025	-0.734358953	0.010056359	0.082706381	8.34E-005	0.002740733	0.340757928	-0.563979989	0.604202161	0.535979065	0.088459
10439974	Gm8900	0.115061431	0.44676025	0.383560798	0.651108401	0.003883716	0.045021032	-0.331698819	0.28091084	1.180797504	0.257546259	0.0889165
10449652	Dnahc8	-0.133598139	-0.437148479	0.273479481	0.551448437	0.002453996	0.03257966	0.30355034	-0.285373309	1.063695626	0.305612727	0.0891182
10408689	Nrn1	-0.460352383	-0.742363742	0.000967742	0.016548968	1.19E-005	0.000651632	0.282011359	-0.601358063	0.468957475	0.620117009	0.0895572
10524060	Gm10417	-0.250977201	-0.612299244	0.095915246	0.321361774	0.00074035	0.013607982	0.361322043	-0.431638222	0.837094642	0.409893043	0.096797
10358519	Hmcn1	-0.627378603	-0.916886312	9.00E-005	0.002919689	1.81E-006	0.0001735	0.289507709	-0.772132457	0.374945653	0.684249067	0.0923743
10594840	Gcom1	-0.50416767	-0.823475786	0.001393695	0.021142656	1.69E-005	0.000831677	0.319308117	-0.663821728	0.481014862	0.612243466	0.0935539
10545101	Hpgds	0.510522244	0.844539322	0.00178879	0.025241702	2.08E-005	0.000971017	-0.334017079	0.677530783	0.492991739	0.604497896	0.0937706
10358551	Hmcn1	-0.605876611	-0.994942083	0.001586314	0.023121816	1.90E-005	0.000910672	0.389065472	-0.800409347	0.48608312	0.608956663	0.0945298
10474411	Lin7c	-0.102947279	-0.385788464	0.370702751	0.640840397	0.004089235	0.046402511	0.282841184	-0.244367872	1.157440143	0.266849035	0.0948232
10363860	Slc16a9	-0.247763886	-0.543567857	0.053652579	0.231124825	0.000447265	0.009503633	0.295803971	-0.395665872	0.747610527	0.455810407	0.0965898
10476526	2210009G21Rik	0.301000295	0.571486806	0.014547669	0.104805944	0.000131229	0.00386726	-0.270486511	0.436243551	0.620035552	0.526696841	0.0968497
10519855	Cacna2d1	-0.31326053	-0.629827875	0.026449039	0.15256161	0.000227787	0.005845972	0.316567345	-0.471544202	0.671341825	0.497374826	0.097085
10381697	Hexim1	-0.221100957	-0.475736792	0.047771469	0.216642766	0.000410681	0.008918246	0.254635835	-0.348418875	0.730832493	0.464754799	0.0985509
10574426	Ccl17	0.475720036	0.754417127	0.000899571	0.015782772	1.28E-005	0.000693984	-0.27869709	0.615068581	0.453115471	0.630579582	0.100053
10435789	Zbtb20	-0.285276048	-0.5432804	0.015941028	0.110947482	0.000149312	0.004253652	0.258004352	-0.414278224	0.622780385	0.525099098	0.100086
10539933	Txnrd3	-0.113592528	-0.401379135	0.341322434	0.615477367	0.003970679	0.04546033	0.287786607	-0.257485832	1.117679388	0.283005564	0.10021

Suppl Table 1

10449661	Tff2	0.208999984	0.599844836	0.204456105	0.475446576	0.002055969	0.02863408	-0.390844852	0.40442241	0.966427287	0.348423411	0.100704
10358581	Hmcn1	-0.553068688	-0.885058561	0.001107877	0.018112728	1.53E-005	0.000781064	0.331989873	-0.719063624	0.461697494	0.624895021	0.100708
10544768	Hoxa5	-0.26491608	-0.526508785	0.025160815	0.148120031	0.000229926	0.005870219	0.261592705	-0.395712433	0.661067694	0.503156049	0.100918
10605659	Gm14781	0.226367376	0.486458924	0.049502674	0.220711243	0.00044771	0.009505219	-0.260091548	0.35641315	0.729747339	0.465337082	0.101999
10478145	Ppp1r16b	-0.135744326	-0.434061974	0.278341549	0.55624968	0.003108812	0.038437859	0.298317647	-0.28490315	1.047084411	0.312730289	0.102193
10578623	Wwc2	-0.397963107	-0.676676674	0.003603036	0.041176642	4.23E-005	0.001658786	0.278713567	-0.53731989	0.518710683	0.58811412	0.103013
10598594		-0.200267067	-0.475119503	0.095288672	0.320223833	0.000910763	0.015892223	0.274852436	-0.337693285	0.813911463	0.421508833	0.10444
10580733	Bbs2	-0.187458094	-0.439062317	0.089060168	0.307953764	0.000850879	0.015062315	0.251604224	-0.313260206	0.803179654	0.426950996	0.104726
10380472		-0.27210294	-0.618414664	0.074646545	0.279376397	0.000706819	0.013185057	0.346311724	-0.445258802	0.777776256	0.440000789	0.104732
10567448	Dnahc3	-0.507985128	-0.981621398	0.020379857	0.129418647	0.00020133	0.005296804	0.47363627	-0.744803263	0.635921315	0.517495981	0.105396
10348600	Traf3ip1	-0.134852707	-0.403048095	0.238339642	0.513488496	0.002686668	0.034558889	0.268195388	-0.268950401	0.997192745	0.334582171	0.105766
10503570	Sfrs18	-0.105310272	-0.355576138	0.319998625	0.597618672	0.00396236	0.045431065	0.250265865	-0.230443205	1.086019721	0.296167997	0.105867
10495285	Sort1	-0.270242452	-0.560335542	0.039520609	0.19329554	0.000380551	0.008449813	0.290093091	-0.415288997	0.698533052	0.482286829	0.106092
10409660	Gkap1	-0.291961694	-0.577765675	0.026129737	0.151585128	0.00025625	0.006330534	0.285803981	-0.434863685	0.657226601	0.505328901	0.106097
10423548	Sdc2	-0.4796144	-0.773914092	0.001530882	0.022583147	2.17E-005	0.00100605	0.294299693	-0.626764246	0.469554054	0.619725632	0.107015
10559649	Cox6b2	-0.152770346	-0.440077903	0.0216706376	0.489425695	0.002459923	0.03259924	0.287307557	-0.296424124	0.969244854	0.347143869	0.107868
10398996	Crip2	-0.143195631	-0.439391209	0.261235365	0.538395607	0.003190892	0.039244764	0.296195578	-0.29129342	1.016828934	0.32589553	0.109477
10350339		-0.239485947	-0.538727426	0.073929463	0.278039772	0.000750897	0.013767154	0.2929241479	-0.389106687	0.769047384	0.444540105	0.109686
10458894	Lox	0.433583059	0.723735283	0.003076965	0.036992756	4.05E-005	0.001599341	-0.290152224	0.578659171	0.501421629	0.599090675	0.110138
10548367	Clec1a	-0.457640868	-0.787832002	0.005113406	0.052401728	6.27E-005	0.002238385	0.330191134	-0.622736435	0.530226137	0.580886365	0.110302
10413304	Arf4	0.277520758	0.571267593	0.039741056	0.194030886	0.000409418	0.00898348	-0.293746835	0.424394175	0.692155671	0.485798181	0.111005
10424287	Frf16	0.626182214	0.98047156	0.000918303	0.015947901	1.50E-005	0.000767485	-0.354289346	0.803326887	0.441027621	0.638654133	0.111851
10420596	Tnfrsf19	-0.111592245	-0.361079023	0.300809357	0.580016118	0.003996572	0.045613167	0.249486778	-0.236335634	1.055646046	0.309052142	0.112198
10356084	Irs1	-0.114030305	-0.38205662	0.324279713	0.601085151	0.004434655	0.049191324	0.268026215	-0.248043413	1.080561715	0.298464491	0.112337
10547820	Lrrc23	-0.224684364	-0.606678002	0.180499552	0.445486779	0.002108148	0.029092445	0.381993638	-0.415681183	0.918958216	0.370351921	0.112628
10459363	Fam38b2	-0.147988828	-0.423163891	0.21889154	0.491988447	0.002686824	0.034558889	0.275175063	-0.285576359	0.963577881	0.349719886	0.113157
10358625	Hmcn1	-0.584064989	-0.862875095	0.00022867	0.00578846	4.88E-006	0.000341944	0.278810106	-0.723470042	0.385378924	0.676882427	0.113414
10571467	Pdgfrl	0.199180849	0.467624027	0.098729674	0.326555564	0.001082365	0.017981967	-0.268443178	0.333402438	0.805162614	0.42594229	0.113935
10363743	Rtkn2	-0.723896276	-1.037540253	0.000100844	0.003155689	2.56E-006	0.000223835	0.313643977	-0.880718265	0.356122939	0.697704281	0.115798
10472860	Rapgef4	-0.56500292	-0.84649165	0.000355743	0.007967895	7.19E-006	0.000456965	0.281488729	-0.705747285	0.398852019	0.667464257	0.115975
10372595		-0.240361553	-0.605949391	0.141559219	0.394649943	0.00166572	0.024572241	0.365587839	-0.423155472	0.863956306	0.396669353	0.116151
10380067	Sept4	-0.318647605	-0.621184584	0.026386591	0.152405717	0.000297629	0.007041048	0.302536979	-0.469916095	0.643810634	0.512967664	0.116671
10469536		-0.247277081	-0.519832324	0.05147727	0.226369465	0.00058461	0.011472304	0.272555242	-0.383554703	0.710603313	0.475686236	0.118578
10590860	9030420J04Rik	-0.325244087	-0.608660418	0.018081093	0.120359312	0.00021736	0.005624178	0.283416332	-0.466952252	0.606949276	0.534360502	0.119779
10346114		-0.304467422	-0.59405127	0.027832786	0.156806837	0.000326082	0.007526872	0.289583849	-0.449259346	0.644580577	0.512527179	0.119884
10455954	Gm4951	0.276877706	0.711847749	0.158718048	0.417397654	0.002018466	0.028203579	-0.434970043	0.494362728	0.879860107	0.388956356	0.120607
10347792		-0.175099104	-0.458390783	0.17090138	0.433523105	0.002218783	0.030286435	0.283291679	-0.316744944	0.89438422	0.381986529	0.121178
10538408	2410066E13Rik	-0.210528752	-0.456981546	0.066462815	0.261731747	0.000784705	0.014201021	0.246452794	-0.333755149	0.738423946	0.460694209	0.121237
10358517	Hmcn1	-0.71520395	-1.025901166	0.000125023	0.003705651	3.27E-006	0.000268903	0.310697215	-0.870552558	0.356896562	0.69714703	0.122669
10496580	Gbp3	0.263595892	0.574058516	0.069518936	0.268413367	0.000845697	0.014991259	-0.310462624	0.418827204	0.741266616	0.459179482	0.12346
10415438	Mcpt2	0.497901307	0.869519795	0.008191469	0.072278659	0.00011194	0.00340034	-0.371618488	0.683710551	0.54353189	0.572616414	0.124179
10568078	Taok2	-0.244408678	-0.501393027	0.045580474	0.210727596	0.000556121	0.01103984	0.256984349	-0.372900852	0.689149267	0.487459268	0.124235
10389674	Dynll2	-0.23288439	-0.547328233	0.108939013	0.342702073	0.001381937	0.021589501	0.314443843	-0.390106311	0.80604654	0.425493107	0.124312
10582162	Cott1	0.141413983	0.37975754	0.191429479	0.45935024	0.002652769	0.034268387	-0.238343556	0.260585761	0.914645356	0.372379659	0.124444
10372177	Tmtc2	-0.361854588	-0.613963375	0.00537815	0.054164887	7.76E-005	0.002594828	0.252108788	-0.487908982	0.516712742	0.589374875	0.124563
10584325	Vsig2	-0.183428837	-0.432475683	0.112154919	0.348117319	0.00145483	0.022341715	0.249046846	-0.30795226	0.808719007	0.424136765	0.125831
10346191	Stat1	0.385008529	0.693356424	0.01306158	0.097767625	0.000177556	0.00481767	-0.308347895	0.539182476	0.571880409	0.55528227	0.127813
10360306	Slamf8	0.138522225	0.412782422	0.266281383	0.543512585	0.004196	0.047300362	-0.274260197	0.275652323	0.994949701	0.335581696	0.127849
10540472	Bhlhe40	0.684161921	0.986315143	0.000166943	0.004627527	4.35E-006	0.000315693	-0.302153222	0.835238532	0.361756805	0.693654483	0.127862
10516393	Eif2c4	-0.203512422	-0.477477886	0.111692426	0.347463481	0.001493693	0.022684785	0.273965465	-0.340495154	0.804608998	0.426223763	0.128302
10390103	Pdk2	-0.146913645	-0.444543807	0.277759357	0.555562002	0.004477136	0.04944885	0.297630162	-0.295728726	1.006429662	0.330481817	0.128596
10470628	Ddx31	0.116050373	0.350451113	0.277023378	0.554819658	0.004489031	0.049516303	-0.23440074	0.233250743	1.004930301	0.331145684	0.129083
10591628	Dock6	-0.211467727	-0.480899888	0.095383983	0.320418279	0.001270818	0.020260477	0.269432161	-0.346183807	0.77829221	0.439733368	0.129215
10551487	Eid2b	-0.130066934	-0.369061827	0.234531858	0.509373098	0.003627788	0.042852306	0.238994893	-0.249564381	0.957648251	0.352425867	0.129257
10456254	Nedd4l	-0.356453715	-0.65297272	0.016647207	0.11419041	0.000228233	0.005845972	0.296519005	-0.504713218	0.58749998	0.545893732	0.130301
10598403	Praf2	0.292151399	0.555713773	0.025130831	0.148084981	0.00033699	0.0076956	-0.263562374	0.423932586	0.62170822	0.525722797	0.130651

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10379630	Slnf2	0.434348189	0.730518482	0.00526553	0.053336866	8.18E-005	0.002716106	-0.296170292	0.582433335	0.50850505	0.594575223	0.130912
10605431	Rab39b	0.157714921	0.470544418	0.271594038	0.549236288	0.004496099	0.049572972	-0.312829497	0.314129669	0.995861033	0.335175416	0.131291
10360377	Al607873	1.123884845	1.681615149	0.000510246	0.010435857	1.14E-005	0.000638289	-0.557730304	1.402749997	0.397597794	0.668336537	0.131899
10502240	Npnt	-0.531472362	-0.81281306	0.00086957	0.015393186	1.78E-005	0.000869097	0.281340699	-0.672142711	0.418572863	0.653867891	0.132129
10498952	Gucy1a3	-0.452059763	-0.693761615	0.000945099	0.016270149	1.91E-005	0.000910672	0.241701852	-0.572910689	0.421883997	0.651606767	0.13231
10358553	Hmcn1	-0.571756787	-0.860939999	0.000604296	0.011821953	1.32E-005	0.000707672	0.289183211	-0.716348393	0.403690738	0.66410759	0.132371
10396112	Atp5s	-0.271260975	-0.527343035	0.031823596	0.169400263	0.000432118	0.00927392	0.25608206	-0.399302005	0.641324254	0.514391879	0.132575
10567460	Dnahc3	-0.180116485	-0.421914788	0.114983124	0.352657048	0.001630383	0.024176007	0.241798302	-0.301015636	0.80327489	0.426902518	0.132818
10349157	Serpnb2	0.595301775	1.020235028	0.007316192	0.067212605	0.000112125	0.003400751	-0.424933253	0.807768402	0.526058276	0.583494743	0.133249
10461365	Eef1g	0.189016574	0.505875872	0.20053736	0.47076943	0.003162277	0.038986234	-0.316859298	0.347446223	0.911966448	0.373642201	0.133945
10352396	Trp53bp2	-0.335638304	-0.610996194	0.016723223	0.114589347	0.000243159	0.006065502	0.27535789	-0.473317249	0.581761789	0.549329615	0.135533
10396161	Tmx1	0.246816711	0.537511905	0.079286108	0.287445736	0.001142347	0.018688193	-0.290695194	0.392164308	0.741258671	0.459183711	0.136864
10448235	A630033E08Rik	-0.280867385	-0.532040699	0.02627908	0.152063696	0.000378599	0.008414835	0.251173314	-0.406454042	0.617962398	0.527905826	0.137117
10368730	Bxdc1	0.51792215	0.780820984	0.000701257	0.013015078	1.57E-005	0.000794298	-0.262898835	0.649371567	0.404851164	0.663304599	0.137586
10385504	Gms431	0.444973168	0.933109093	0.063067446	0.253583953	0.000921021	0.016016786	-0.488135925	0.68904113	0.708427848	0.476871537	0.138965
10542575	Pde3a	-0.611867245	-0.879119483	0.000201965	0.00530012	5.66E-006	0.000381287	0.267252238	-0.745493364	0.358490432	0.696000097	0.139309
10394749	Nol10	0.247112059	0.591221402	0.133850786	0.383019171	0.002092584	0.028951239	-0.344109343	0.419166731	0.820936676	0.417968731	0.139412
10459576	Cep76	0.245215709	0.490932969	0.045025753	0.20910458	0.000663182	0.012516585	-0.24571726	0.368074339	0.66757509	0.499489166	0.140512
10604505	6720401G13Rik	-0.174860267	-0.415606326	0.130895529	0.378452679	0.002066206	0.028714339	0.240746059	-0.295233297	0.815443453	0.420735336	0.140216
10569611	Fadd	0.230806178	0.474764847	0.055865605	0.236674317	0.000829047	0.014817268	-0.243958669	0.352785512	0.691521223	0.486148415	0.140673
10411958	Rnf180	0.189246063	0.447012874	0.127417261	0.373013642	0.002010816	0.028142655	-0.257766811	0.318129468	0.810257574	0.423357075	0.140809
10387985	A430084P05Rik	0.482579857	0.810532826	0.006224954	0.060136291	0.00106139	0.003266637	-0.327952969	0.646556341	0.507230303	0.595385975	0.141576
10511180	Mxra8	-0.19176106	-0.505480473	0.199290136	0.469171715	0.003439939	0.041390633	0.313719413	-0.348620767	0.899887336	0.379363933	0.141683
10384782	Vrk2	0.299378455	0.540609691	0.016746508	0.114605795	0.000261718	0.006422347	-0.241231236	0.419994073	0.574368191	0.553779298	0.142153
10519527	Abcb1a	-0.326186479	-0.627939117	0.033328976	0.174527019	0.000511843	0.01044314	0.301752639	-0.477062798	0.63252184	0.519455581	0.143641
10366153	Rassf9	-0.522264732	-0.745624095	0.000189749	0.005068122	5.62E-006	0.000380896	0.223359363	-0.633944414	0.352332726	0.70043972	0.144485
10567428	Dnahc3	-0.299008332	-0.539035486	0.01706501	0.11594089	0.000274145	0.006632188	0.240027154	-0.419021909	0.572827218	0.554709921	0.144866
10434806	Lpp	0.218415646	0.549387946	0.171424178	0.434107715	0.002973917	0.037309138	-0.3309723	0.383901796	0.862127512	0.397561773	0.144875
10360406	Ifi205	0.468325385	0.840970176	0.016320125	0.11260886	0.000263318	0.006449828	-0.372644791	0.654647781	0.569229441	0.556887032	0.144983
10460968	Rasgrp2	-0.404374944	-0.662025763	0.004466614	0.047452268	8.31E-005	0.002735545	0.257650819	-0.533200353	0.48321577	0.610814512	0.146334
10577114	Grtp1	-0.267702436	-0.521153598	0.03812315	0.189407899	0.000602122	0.011673172	0.253451162	-0.394428017	0.642579003	0.513672816	0.146457
10358652	Hmcn1	-0.535146948	-0.780059393	0.000364679	0.008125507	9.89E-006	0.000582473	0.244912445	-0.657603171	0.372431972	0.686033592	0.14649
10552369	Siglec5	0.198857697	0.456667062	0.117363553	0.356760739	0.001991097	0.027900148	-0.257800365	0.327762379	0.786573996	0.435454434	0.148144
10352914	A330023F24Rik	-0.463742176	-0.71664025	0.001584572	0.023109549	3.50E-005	0.001423598	0.252898074	-0.590191213	0.42850193	0.647105959	0.149564
10472097	Fmnl2	0.255438756	0.491020282	0.036002225	0.182388782	0.000599263	0.011653428	-0.235581526	0.373229519	0.631197464	0.520220377	0.151319
10401841	Dio2	0.199197239	0.485706804	0.158539	0.417150943	0.002936997	0.036954328	-0.286509565	0.342452022	0.836641475	0.410118281	0.152085
10497501	Naaladl2	-0.386421832	-0.660639069	0.009693086	0.080990279	0.000176648	0.00479811	0.274217237	-0.523530451	0.523784694	0.584921253	0.152706
10462406	C030046E11Rik	0.19056281	0.433852278	0.11640945	0.355671677	0.002076792	0.028814645	-0.243289468	0.312207544	0.77925557	0.43923432	0.152847
10472538	Dhrs9	0.183754483	0.410392094	0.105602984	0.337435253	0.001871653	0.026734324	-0.226637612	0.297073288	0.762901347	0.447753466	0.153267
10358617	Hmcn1	-0.548182032	-0.85937533	0.002309735	0.030540135	5.03E-005	0.001895871	0.311193297	-0.703778681	0.442174941	0.637884302	0.153772
10544932	Inmt	-0.764892657	-1.073035942	0.000141469	0.004057239	4.80E-006	0.000337825	0.308143285	-0.9189643	0.335315838	0.712830417	0.154801
10526566	Ephb4	-0.167713576	-0.40830919	0.160682618	0.42013028	0.003085511	0.038297344	0.240595615	-0.288011383	0.835368423	0.41075141	0.155188
10591618	Dock6	-0.295644251	-0.525109951	0.016644884	0.11419041	0.000299464	0.007066598	0.2294657	-0.410377101	0.55915815	0.563013994	0.155748
10513536	Gm2173	-0.237430034	-0.50122542	0.078844143	0.286860969	0.001432236	0.022192448	0.263795386	-0.369327727	0.714258278	0.473699107	0.157981
10473244	Zfp804a	-0.153399695	-0.37397528	0.164726849	0.426023385	0.003283534	0.04011507	0.220575584	-0.263687488	0.836503796	0.410186726	0.158273
10346810	Pard3b	-0.327985509	-0.540342723	0.006103631	0.059276583	0.000123371	0.003677904	0.212357214	-0.434164116	0.489117379	0.606995329	0.158599
10424582		-0.427423753	-0.746082351	0.014177521	0.103061062	0.000268061	0.006534262	0.318658597	-0.586753052	0.543088095	0.572890852	0.159671
10544089	Zc3hav1	0.162907165	0.398890052	0.169704378	0.432305899	0.00347498	0.041660811	-0.235982887	0.280898609	0.840099878	0.408401173	0.160297
10470283	Egfl7	-0.244303571	-0.560588772	0.12783601	0.373723771	0.002499695	0.033022218	0.316285201	-0.402446171	0.785906845	0.435798188	0.16037
10368356	Akap7	-0.173269279	-0.408797364	0.145629021	0.400381872	0.00291246	0.036717597	0.235528085	-0.291033321	0.809282194	0.423851263	0.160646
10397094	Psen1	0.214848411	0.4333713	0.059098231	0.244053921	0.001088826	0.018065926	-0.218522889	0.324109856	0.674224759	0.495760588	0.16076
10503251	2610301B20Rik	0.17439126	0.423298658	0.166984732	0.429071907	0.003519052	0.041973531	-0.248907397	0.298844959	0.832898096	0.411981605	0.163375
10358668	Hmcn1	-0.263764992	-0.483100598	0.026096028	0.151511615	0.000497304	0.010236401	0.219335606	-0.373432795	0.587349609	0.545983576	0.163905
10492888		-0.299670654	-0.595256975	0.057199319	0.239887276	0.001146853	0.018714197	0.293586321	-0.447463814	0.660581508	0.50343073	0.169383
10527920	Cyp51	0.543670669	0.819255129	0.001351716	0.020763525	3.65E-005	0.001473522	-0.275584461	0.681462899	0.404401268	0.663615825	0.169687
10495675	F3	0.510838127	0.754669435	0.000867912	0.015374447	2.52E-005	0.001120717	-0.243831307	0.632753781	0.385349428	0.676903163	0.171023

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10351224	F5	0.393759286	0.808653494	0.074038948	0.278166235	0.00153434	0.023109978	-0.414894208	0.60120639	0.690102792	0.486932028	0.17152
10352133	Efcab2	-0.496331349	-0.745450837	0.00131884	0.02040102	3.65E-005	0.001473522	0.249119488	-0.620891093	0.401228962	0.665813658	0.172328
10522430	Dcun1d4	-0.218173377	-0.429726141	0.05534052	0.235377015	0.001144765	0.018692009	0.211552764	-0.323949759	0.653041894	0.507703293	0.172727
10476560	Ism1	-0.164845427	-0.389634156	0.158899545	0.417562908	0.003661473	0.043131115	0.224788728	-0.277239791	0.018089759	0.423077456	0.173208
10510391	Srm	0.223461734	0.44903915	0.066077416	0.260947483	0.001416981	0.02203634	-0.225577415	0.336250442	0.670861319	0.497644213	0.175753
10545168	Tacstd2	-0.3052425	-0.59747769	0.054286363	0.233013775	0.001155789	0.018823724	0.292235191	-0.451360095	0.647454646	0.510885184	0.175821
10491414	Usp13	-0.158358585	-0.370831682	0.155620261	0.413590895	0.003680689	0.043278021	0.212473097	-0.264595134	0.803012111	0.427036288	0.17628
10367746	Sash1	-0.247484293	-0.479539331	0.050336432	0.222918486	0.001075426	0.017924703	0.232055038	-0.363511812	0.638370006	0.516087581	0.176399
10380381	Tob1	-0.231704958	-0.474936327	0.076348929	0.282543875	0.001664623	0.024572241	0.243231369	-0.353320643	0.688415394	0.487865309	0.176603
10361507	Fabp12	-1.062219681	-1.62960791	0.002279702	0.030256152	6.09E-005	0.00219663	0.56738823	-1.345913795	0.421563574	0.65182531	0.176921
10420383	AU040096	-0.185691334	-0.422061354	0.136675001	0.387600699	0.003183438	0.039190635	0.23637002	-0.303876344	0.777849361	0.439962892	0.176927
10361651	Nup43	0.635733507	0.887920574	0.000205251	0.005333121	7.79E-006	0.000487574	-0.252187067	0.761827041	0.331029293	0.715980152	0.176973
10433885	Cebpδ	-0.217163033	-0.421581092	0.051733233	0.22694829	0.001118928	0.018410664	0.204418059	-0.319372063	0.640062433	0.515115684	0.177641
10522192	Nsun7	-0.353195893	-0.61143009	0.016365393	0.112772805	0.000363695	0.008145997	0.258234197	-0.482312992	0.535407922	0.5776554	0.177993
10572727	Gm15468	-0.274768288	-0.552238894	0.067984184	0.265280943	0.001502779	0.022757131	0.277470606	-0.413503591	0.671023449	0.497553307	0.178813
10497276	Fabp12	-0.418390934	-0.64226047	0.002429674	0.031593141	6.60E-005	0.002317426	0.223869536	-0.530325702	0.422135934	0.651434977	0.179818
10348645	Gpr35	0.157851676	0.375542939	0.170136313	0.432692612	0.004249671	0.047737659	-0.217691264	0.266697308	0.816248449	0.420329233	0.180237
10369655	Stox1	-0.217212311	-0.420732989	0.052354751	0.228350338	0.001165953	0.018941576	0.203520678	-0.31897265	0.638050559	0.516271167	0.180759
10346634	Nop58	0.594082197	0.845307335	0.000396645	0.00864504	1.41E-005	0.000734425	-0.251225139	0.719694766	0.349071788	0.702800238	0.18159
10403069	Igh-6	0.658526597	0.95364729	0.000666365	0.012595177	2.22E-005	0.001022154	-0.295120694	0.806086944	0.366115214	0.690534754	0.183249
10566767	St5	-0.204069081	-0.415135256	0.07685633	0.283481575	0.001786649	0.025851018	0.211066175	-0.309602169	0.681733516	0.491572513	0.183415
10413059	Vcl	-0.172501538	-0.373123979	0.11401558	0.346941347	0.002687375	0.034558889	0.200622441	-0.272812758	0.735385112	0.462316945	0.183619
10358621	Hmcn1	-0.287995592	-0.574140711	0.067076263	0.263330537	0.001552934	0.023341029	0.28614512	-0.431068152	0.663804827	0.501611514	0.183889
10405942	Gm10037	-0.216576913	-0.499493781	0.152859939	0.410076183	0.003884573	0.045021032	0.282916868	-0.358035347	0.790192561	0.433592812	0.184197
10483819	Ttc30b	-0.337253631	-0.659078396	0.058203535	0.242134251	0.001347242	0.02120242	0.321824765	-0.498166014	0.646019111	0.511704879	0.18459
10474700	Thbs1	0.831585104	1.183937677	0.00043398	0.009275098	1.56E-005	0.00079147	-0.3512352573	1.00776139	0.349638889	0.702389256	0.185112
10357391	Zranb3	0.343680069	0.579559807	0.01282911	0.096596624	0.000309041	0.007237656	-0.235879738	0.461619938	0.51098256	0.593001904	0.185397
10567462	Dnahc3	-0.524317252	-0.831316851	0.005013102	0.051635753	0.000132256	0.003893057	0.306999599	-0.677817051	0.452923984	0.630706873	0.186417
10452639	Myl12b	-0.191840666	-0.448513287	0.164777365	0.426043945	0.00435968	0.048590648	0.256672621	-0.320176976	0.801658582	0.427725714	0.187066
10580765	Plp	-0.411090603	-0.652725837	0.005201385	0.052874909	0.000137556	0.004016822	0.241635233	-0.53190822	0.454279938	0.629805931	0.187172
10437698	Txndc11	0.165399303	0.377417046	0.151028588	0.40784738	0.004039187	0.045976873	-0.212017743	0.271408175	0.781176703	0.438240151	0.189987
10461396	LOC100045435	0.213917066	0.450190082	0.101792034	0.331253423	0.00263198	0.034102808	-0.236273016	0.332053574	0.711550889	0.475170544	0.192386
10486396	Ehd4	-0.292298421	-0.550574814	0.048001573	0.21711006	0.001220861	0.01965938	0.258276393	-0.421436617	0.612847536	0.530896826	0.195887
10502949		0.900695093	1.469419393	0.009223071	0.078316068	0.00024887	0.006185172	-0.5687243	1.185057243	0.479912936	0.612959851	0.196007
10522530	Kit	-0.483441793	-0.718899348	0.001672116	0.024017841	5.47E-005	0.002021612	0.235457555	-0.601170571	0.391665138	0.672474936	0.197532
10486061	Rasgrp1	0.354612922	0.590734912	0.012836648	0.096596624	0.000343856	0.007780723	-0.23612199	0.472673917	0.499545208	0.60029112	0.198028
10358637	Hmcn2	-0.460371836	-0.671166125	0.001069586	0.017712346	3.75E-005	0.001501277	0.210794289	-0.56576898	0.372580145	0.685928296	0.198904
10581266	Tppp3	-0.410056147	-0.71476573	0.023663298	0.142112665	0.000633059	0.012135438	0.304709582	-0.562410939	0.541791707	0.573693072	0.201433
10585048	Cadm1	-0.239395391	-0.441901482	0.042590509	0.202160283	0.001137664	0.018632754	0.202506091	-0.340648437	0.594472391	0.541739282	0.201894
10417510	Gm10044	-0.493916481	-0.854135575	0.021958543	0.135716802	0.00059599	0.011630788	0.360219094	-0.674026028	0.534429056	0.578264734	0.202893
10516640	Eif3i	0.356770788	0.5592362	0.005337191	0.053871423	0.000160506	0.004482978	-0.202465412	0.458003494	0.442060845	0.637960826	0.203545
10464342	6430537H07Rik	-0.170757538	-0.376818594	0.140906483	0.393685382	0.004209771	0.047413956	0.206061055	-0.273788066	0.752629792	0.453155819	0.203878
10580537	Aktip	-0.221751385	-0.421325033	0.055702165	0.236285434	0.00152761	0.02302449	0.199573648	-0.321538209	0.62068408	0.526319036	0.204193
10534531	Ywhag	0.233167503	0.431832078	0.045879803	0.211350105	0.001275551	0.020310692	-0.198664575	0.332499791	0.597487819	0.539949474	0.206653
10555576	3200002M19Rik	0.198506078	0.399990403	0.086769026	0.30318882	0.002496275	0.033011019	-0.201484325	0.29924824	0.673301621	0.496277101	0.206541
10502816	Gipc2	-0.354241601	-0.592115005	0.015037005	0.107201694	0.000428223	0.009213437	0.237873404	-0.473178303	0.502714099	0.59826486	0.20675
10403796	Amph	-0.363875157	-0.608775391	0.015228959	0.108042266	0.000433523	0.00929275	0.244900234	-0.486325274	0.503572911	0.5977166	0.206788
10566583	Gm8995	0.27928155	0.52963281	0.056637747	0.23855886	0.001601208	0.023825978	-0.25035126	0.40445718	0.618980876	0.527311649	0.207754
10421309	Slc39a14	0.253074745	0.452344882	0.033503473	0.175146059	0.000945175	0.01632621	-0.199270138	0.352709814	0.564969076	0.559472992	0.208628
10542369	Gm8994	-0.509247783	-0.838648556	0.012641541	0.095633091	0.000370644	0.008272783	0.329400773	-0.67394817	0.488762768	0.607224301	0.209154
10453049	Cdc42ep3	-0.339218523	-0.576621515	0.019584744	0.126333176	0.00056866	0.01126262	0.237402292	-0.457920019	0.51843768	0.588286274	0.21073
10369690	Tet1	-0.397956045	-0.605265716	0.003394142	0.039654451	0.000113104	0.003420428	0.207309671	-0.50161088	0.413287828	0.657489817	0.210982
10358654	Hmcn1	-0.260792797	-0.519637079	0.084153594	0.298103016	0.002529126	0.033274012	0.258844282	-0.390214938	0.663337706	0.501874881	0.212114
10433988	Serpind1	0.429833672	0.666508933	0.00502279	0.051694058	0.000162593	0.004527073	-0.236675261	0.548171302	0.431754198	0.644903092	0.212427
10539263	Loxl3	0.202112685	0.390672857	0.068320291	0.26582465	0.002028302	0.028294808	-0.188560172	0.296392771	0.636183436	0.517345093	0.212511
10471586	Hspa5	0.337675299	0.539340541	0.008381961	0.07342254	0.000260262	0.00640096	-0.201665243	0.43850792	0.459889624	0.62608922	0.212825

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10462281	Vldlr	-0.507080282	-0.733918614	0.001166788	0.018800444	4.49E-005	0.001734584	0.226838332	-0.620499448	0.365573786	0.69092168	0.213587
10363241	Gcc2	-0.238165115	-0.460285431	0.069243127	0.267993453	0.002087475	0.02891598	0.222120316	-0.349225273	0.636037347	0.517429184	0.214286
10567446	Dnahc3	-0.391536179	-0.648540576	0.014668473	0.105465086	0.000444707	0.009457121	0.257004396	-0.520038378	0.49420275	0.603718864	0.21453
10358559	Hmcn1	-0.428543158	-0.635094782	0.002113776	0.028593681	7.68E-005	0.002576322	0.206551624	-0.53181897	0.388387094	0.674770397	0.215554
10569494	Tnfrsf22	0.319182783	0.583318829	0.044625926	0.2081516	0.001340793	0.021139723	-0.264136045	0.451250806	0.585341991	0.547184091	0.216136
10372687	Nup107	0.336650651	0.543277356	0.010348345	0.084396017	0.000325416	0.007525023	-0.206626705	0.439964004	0.469644569	0.619666267	0.216513
10433034	Atf7	-0.174984089	-0.375508912	0.133972872	0.383240352	0.004460057	0.049360654	0.200524823	-0.275246501	0.728528147	0.465991841	0.217814
10476326	Cds2	-0.406314516	-0.613294381	0.003297613	0.038880634	0.00011674	0.003504656	0.206979865	-0.509804449	0.405998547	0.662511395	0.21883
10380637	Hoxb6	-0.196819934	-0.399119665	0.098979363	0.326555564	0.003199199	0.039309261	0.202299731	-0.297969799	0.678926965	0.493135144	0.219094
10562368	4931406P16Rik	-0.261618939	-0.453108076	0.02718958	0.155158326	0.00084421	0.01498561	0.191489136	-0.357363508	0.535838529	0.577387501	0.220415
10471677	Dab2ip	-0.195719678	-0.397974971	0.101730066	0.33120907	0.003339919	0.040495537	0.202255293	-0.296847325	0.681344502	0.491788913	0.220659
10546944	Tmem111	0.23259028	0.455211099	0.079705559	0.28851816	0.002557307	0.033558771	-0.222620818	0.34390069	0.647340424	0.510950372	0.220745
10542522	Plekha5	-0.239502574	-0.442070632	0.050981522	0.224844278	0.001598927	0.023805838	0.202568059	-0.340786603	0.59441321	0.54177445	0.22108
10529732	Hs3st1	-0.18335852	-0.386266277	0.124807435	0.369057473	0.004239433	0.047643508	0.202907757	-0.284812398	0.712425999	0.47469461	0.221627
10451039	Slc25a27	0.318560546	-0.509323419	0.009625728	0.080637461	0.000316581	0.00738057	0.190762873	-0.413941982	0.460844468	0.625458273	0.221801
10402435	Serpina3c	0.508030069	0.793139118	0.006873158	0.064336293	0.00023861	0.005999466	-0.285109049	0.650584594	0.438235168	0.640530845	0.225665
10436449		-0.284893758	-0.580867906	0.107290098	0.340242441	0.003701049	0.043457701	0.295974148	-0.432880832	0.68373124	0.490462212	0.226099
10346841	Il10rb	0.330157372	0.52544908	0.009527625	0.080103202	0.00032446	0.007509673	-0.195291708	0.427803226	0.456498913	0.628333714	0.226409
10350438	Kcnt2	0.351866741	0.572912672	0.013645859	0.100574035	0.000459433	0.009676066	-0.221045931	0.462389706	0.678051151	0.614171684	0.227853
10419934	Myh7	-0.186096944	-0.370283238	0.094524972	0.31857497	0.003291161	0.040169558	0.184186294	-0.278190091	0.662087903	0.502579985	0.229116
10479811	Mcm10	0.251759827	0.44510693	0.037087797	0.18589525	0.001233684	0.019840976	-0.193347103	0.348433378	0.554904078	0.565616507	0.229539
10542929	Calcr	-0.235107401	-0.434256828	0.055792184	0.236510946	0.001891283	0.026922746	0.199149427	-0.334682114	0.595040543	0.541401737	0.230629
10579894	Hhip	-0.338726935	-0.538410974	0.009995537	0.082550015	0.000352169	0.007936333	0.19968404	-0.438568954	0.455308197	0.629123385	0.231518
10601326	Uprt	0.230024864	0.454994497	0.092743205	0.315855248	0.003287693	0.040146768	-0.224969633	0.342509681	0.656827079	0.505555266	0.231692
10590628	Ccr3	1.225404439	1.712686989	0.000639036	0.012183844	3.01E-005	0.001273293	-0.48728255	1.469045714	0.331700059	0.715486511	0.232033
10490818	Stmn2	-0.518563487	-0.779250925	0.003716262	0.042099263	0.000142976	0.004146777	0.260687438	-0.648907206	0.401732999	0.665464063	0.2323
10577973	Adrb3	-0.437468867	-0.670334809	0.005453017	0.054717768	0.000203087	0.005324666	0.232865943	-0.553901838	0.420410128	0.652612487	0.232748
10600082	Nsdhl	0.328691637	0.583667277	0.040059349	0.194858035	0.001369858	0.021466123	-0.25497564	0.456179457	0.558937138	0.563148989	0.233067
10488415	Cst3	-0.272035268	-0.519865338	0.074193336	0.278452915	0.002608126	0.033913568	0.247830007	-0.395950303	0.62591206	0.523280258	0.233167
10515803	1110020C03Rik	-0.256669066	-0.454218463	0.04009043	0.194968009	0.001407953	0.021929217	0.197549397	-0.355443765	0.555782422	0.565078453	0.236623
10381298	Ramp2	-0.471248886	-0.807426909	0.02881126	0.159840307	0.001014771	0.017213996	0.336178024	-0.639337898	0.525822143	0.58364278	0.23718
10489909	Ube2v1	-0.330325078	-0.505675992	0.00571836	0.056693268	0.000218913	0.005658672	0.175350914	-0.418000535	0.419499257	0.653234647	0.237261
10580885	Csnk2a2	0.281467205	0.473698742	0.023660614	0.142112665	0.000841222	0.014953252	-0.192231537	0.377582974	0.509110713	0.594190316	0.238069
10395356	Agr3	-0.325494861	-0.522252926	0.012650498	0.095672651	0.000463051	0.009739519	0.196758065	-0.423873893	0.464190099	0.623251388	0.238792
10503723	Mdn1	0.191488628	0.375832881	0.092858781	0.315988225	0.003477186	0.04166779	-0.184344253	0.283660755	0.649875778	0.509504722	0.238868
10603860	Cfp	0.325785161	0.528411061	0.015122659	0.107645152	0.000556109	0.01103984	-0.2026259	0.427098111	0.474424716	0.616537361	0.240677
10452648	Emilin2	0.324081057	0.522987604	0.014129238	0.102797416	0.000522361	0.010565767	-0.198906546	0.42353433	0.469635003	0.619672541	0.240983
10607705	S100g	-0.512257448	-0.741333945	0.001884964	0.026252441	8.29E-005	0.002734382	0.229076497	-0.626795696	0.365472352	0.690994189	0.241599
10498357	F630111L10Rik	0.312653779	0.605382813	0.08842266	0.306591147	0.003434331	0.041366689	-0.292729034	0.459018296	0.637728467	0.516456319	0.244426
10495343	Wdr47	-0.197086304	-0.378418911	0.085001736	0.299992246	0.003347037	0.040556413	0.181332608	-0.287752608	0.630168426	0.520815154	0.246798
10395259	Nampt	0.319452424	0.545012276	0.031084497	0.167129631	0.001193871	0.019305219	-0.225559852	0.43223235	0.521848612	0.586138034	0.249181
10446470	Gm9984	-0.365904829	-0.561704157	0.007463518	0.068151402	0.000311247	0.007276045	0.195799329	-0.463804493	0.422159189	0.651419121	0.252812
10584628	Thy1	0.48153556	0.707564077	0.00323298	0.038312156	0.000145656	0.004182226	-0.226028517	0.594549819	0.380167498	0.680553996	0.253819
10358670	Hmcn1	-0.270244527	-0.451781253	0.026224811	0.151879506	0.001051139	0.017599889	0.181536726	-0.36101289	0.502853861	0.598175611	0.255107
10358583	Hmcn1	-0.258827356	-0.45393195	0.04366735	0.205397387	0.001756922	0.025565009	0.195104594	-0.356379653	0.547462774	0.570189775	0.255123
10545065	Gprin3	-0.304798572	-0.486455892	0.014517643	0.104669028	0.000596888	0.011633204	0.18165732	-0.395627232	0.459162832	0.626569802	0.256421
10502770	Lphn2	-0.410348837	-0.797082586	0.098944054	0.326555564	0.004277549	0.047956255	0.386733749	-0.603715712	0.640589173	0.514813452	0.257564
10352936	Sox17	-0.367227558	-0.548714253	0.004921985	0.050983529	0.000220698	0.00568762	0.181486695	-0.457970905	0.396284334	0.669250991	0.258892
10498978	Lrat	-0.47574395	-0.685521739	0.002288042	0.030335461	0.000110893	0.003380523	0.209777789	-0.580632844	0.361291633	0.693988131	0.259901
10484283	Pde1a	0.306020674	0.481967153	0.012698231	0.095892375	0.000544068	0.010900098	-0.17594648	0.393993913	0.446571568	0.634940932	0.261625
10424584	Dennd3	-0.368048673	-0.550570257	0.005249167	0.053192116	0.000238642	0.005999466	0.182521583	-0.459309465	0.397382587	0.668486299	0.261834
10447317	Epas1	-0.429169279	-0.67125914	0.011465367	0.089626867	0.000495034	0.010211815	0.242089861	-0.55021421	0.439992019	0.639349625	0.262004
10504743	Nans	0.316289426	0.491804073	0.010464092	0.084868832	0.000454568	0.00962695	-0.175514648	0.404046749	0.434391931	0.643120793	0.262174
10487588	Il1a	0.499229262	0.804853199	0.017980613	0.119806559	0.000764868	0.013953537	-0.305623937	0.65204123	0.468718729	0.620273688	0.262617
10553336	Zdhc13	0.403919217	0.615071046	0.007433001	0.067961708	0.000331896	0.007626785	-0.211151829	0.509495132	0.414433458	0.656703351	0.263081
10564527	Nr2f2	-0.225150317	-0.408051707	0.063475506	0.254576452	0.002779932	0.035338972	0.18290139	-0.316601012	0.577703113	0.551769085	0.264895



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10439312	Cd86	0.508752177	0.763971102	0.005910133	0.057983265	0.000271778	0.00659358	-0.255218926	0.636361639	0.40105957	0.665931179	0.265045
10519857	Hgf	-0.296582145	-0.472036928	0.015494191	0.109259583	0.000674477	0.012683128	0.175454782	-0.384309536	0.456545481	0.628302847	0.265289
10397633	Flrt2	0.378561546	0.599740998	0.01468814	0.105529525	0.000645588	0.012302116	-0.221179452	0.489151272	0.45216984	0.631208383	0.266425
10514510	Cyp2j6	-0.252208295	-0.429730416	0.036561137	0.184154486	0.001593158	0.023767516	0.177522212	-0.340969356	0.520639516	0.58689887	0.267165
10351788	Pigm	0.262545074	0.459734828	0.048067686	0.217125459	0.002114032	0.029142308	-0.197189754	0.361139951	0.546020328	0.571079365	0.267501
10373073	D10Erttd610e	-0.295022111	-0.4722642	0.017251333	0.116743269	0.000759496	0.013890484	0.17724209	-0.383643156	0.461997268	0.624697172	0.267552
10468159	Ldb1	-0.216976471	-0.382706499	0.051455744	0.226352361	0.002271854	0.030772527	0.165730028	-0.299841485	0.552725478	0.566952668	0.267673
10420637	Kpna3	0.344198563	0.573941019	0.029070374	0.160710393	0.001272177	0.02026954	-0.229742457	0.459069791	0.500452134	0.599710686	0.268015
10567464	Dnahc3	-0.318769892	-0.513019237	0.018854522	0.123607846	0.000835469	0.014892002	0.194249346	-0.415894565	0.46706392	0.621360504	0.268924
10515771	Tie1	-0.239332552	-0.428051283	0.058932842	0.243785364	0.002648912	0.03425303	0.18871873	-0.333691917	0.565547802	0.559121213	0.269312
10385837	Il13	0.392713448	0.593163112	0.007118895	0.065824131	0.000335021	0.007671113	-0.200449664	0.49293828	0.406642519	0.662066538	0.27075
10475218		-0.379745225	-0.629484221	0.028265415	0.158409755	0.001270636	0.020260477	0.249738996	-0.504614723	0.494910244	0.603264089	0.272016
10554839	Picalm	0.288127164	0.486959047	0.035782941	0.181876539	0.001631568	0.024179607	-0.198831882	0.387543106	0.513057462	0.591686645	0.273943
10523563	Cds1	-0.197868391	-0.364027206	0.076806462	0.28337908	0.003641238	0.042951887	0.166158815	-0.280947799	0.591422378	0.543553855	0.274443
10502405	Metap1	0.260171609	0.426829365	0.025694215	0.150163732	0.001176994	0.019084702	-0.166657756	0.343500487	0.48517473	0.609544774	0.274776
10424349	Sqle	0.244811251	0.414982417	0.038309355	0.189867642	0.001794769	0.025934525	-0.170171166	0.329896834	0.515831461	0.589931624	0.277849
10468916	Fam171a1	-0.228428711	-0.409334376	0.065862896	0.260493434	0.003228763	0.039615626	0.180905665	-0.318881544	0.567313063	0.558049175	0.281186
10461979	Aldh1a1	-0.375629036	-0.568864425	0.008683552	0.075187505	0.00043388	0.00929275	0.193235389	-0.472246731	0.409183117	0.66031381	0.282231
10587241	Hmgcll1	-0.223765107	-0.4088757	0.077594753	0.284895166	0.003890955	0.045048731	0.185110593	-0.316320403	0.585199663	0.547269272	0.282702
10391332	Ptrf	-0.245397102	-0.432298898	0.05812175	0.241990118	0.002871261	0.036323073	0.186901797	-0.338848	0.551580049	0.567656089	0.283526
10406551	Ssbp2	-0.26780986	-0.451414787	0.038157383	0.189480306	0.00185834	0.026603383	0.183604927	-0.359612324	0.510563501	0.593267805	0.283769
10389627	Rad51c	0.324784506	0.518752906	0.020239778	0.128911818	0.000991416	0.016908746	-0.1939684	0.421768706	0.459892821	0.626087107	0.284567
10511835	Fhl5	0.308914271	0.523372678	0.041001489	0.197638729	0.002026769	0.028288797	-0.214458407	0.416143475	0.515347277	0.590237672	0.285796
10596575	Manf	0.481185815	0.685319783	0.002644026	0.033464917	0.000148915	0.004247055	-0.204133969	0.583252799	0.349992266	0.702133261	0.286854
10364011	Cytsa	-0.370761304	-0.542771219	0.004913272	0.050938522	0.000263909	0.006457589	0.172009915	-0.456766261	0.376581919	0.683089469	0.28768
	ENSMUSG000000											
10367434	65996	-0.345262116	-0.517250718	0.007781782	0.069913467	0.000407259	0.00887477	0.171988602	-0.431256417	0.398808215	0.667494706	0.288639
10368317	Enpp3	0.382453271	0.581606293	0.01019251	0.083585092	0.000527219	0.010630527	-0.199153022	0.482029782	0.413155015	0.65758104	0.28922
10439483	Cdgap	-0.269050139	-0.487914919	0.077228685	0.28416082	0.004055523	0.046121917	0.21886478	-0.378482529	0.578269176	0.551428391	0.289801
10592533		-0.258316246	-0.440926858	0.046916578	0.214585662	0.00243288	0.032339286	0.182610612	-0.349621552	0.522309369	0.58584829	0.292548
10456289		-0.254238836	-0.441562618	0.056657255	0.238562734	0.003024226	0.037737395	0.187323782	-0.347900727	0.53844033	0.575770741	0.295704
10585194	Il18	-0.851445754	-1.203440647	0.002595678	0.033048547	0.000155903	0.004378259	0.351994893	-1.027443201	0.342593044	0.707509553	0.297589
10461775	Gm5244	0.456902547	0.656629614	0.003957133	0.043970431	0.000232637	0.005912207	-0.199727067	0.55676608	0.358727075	0.695829943	0.300053
10542414	Ptpro	0.243471518	0.426319219	0.063107747	0.253696109	0.00349012	0.041771998	-0.182847701	0.334895369	0.545984561	0.5711101436	0.300265
10523145	Cxcl15	0.334350268	0.48808371	0.005616408	0.055920073	0.000324281	0.007509673	-0.153733442	0.411216989	0.373849928	0.685026485	0.301425
10395103	Pxdn	-0.331113591	-0.50300654	0.011848167	0.091574453	0.000661346	0.012491123	0.171892948	-0.417060066	0.412153937	0.65826896	0.302852
10421269	Sorbs3	-0.430335633	-0.626134535	0.005546284	0.055415341	0.000328039	0.007551669	0.195798903	-0.528235084	0.370666221	0.687289406	0.305387
10416406	Htr2a	0.268343221	0.45948494	0.054201107	0.232764601	0.003079608	0.038279596	-0.191141719	0.36391408	0.525238591	0.58400874	0.306003
10499113	Gm1019	-0.266084944	-0.449517268	0.047746978	0.216633428	0.00270047	0.034692524	0.183432324	-0.357801106	0.512665615	0.591934866	0.306215
10384622	Ehbp1	-0.214728317	-0.382118571	0.076014652	0.281852067	0.00445771	0.049360654	0.167390254	-0.298423444	0.560915226	0.56194159	0.307375
10518300	Tnfrsf1b	0.386851959	0.55913448	0.004967139	0.051244582	0.000299535	0.007066598	-0.172282521	0.472993219	0.364238882	0.691876413	0.307389
10525733	Setd8	0.298022598	0.493470049	0.03927547	0.192868331	0.002223484	0.030309292	-0.195447451	0.395746323	0.493870541	0.603932496	0.307429
10557470	Gdpd3	-0.341428013	-0.501738518	0.006962575	0.064775415	0.00041103	0.008918269	0.160310506	-0.421583266	0.380258229	0.680489937	0.307598
10566350	A530023O14Rik	-0.220274895	-0.383509225	0.063739271	0.255434754	0.003695951	0.04341861	0.62323433	-0.30189206	0.540704283	0.574366614	0.307721
10595909		0.279876819	0.45094824	0.028884086	0.160094305	0.001632701	0.024182437	-0.171071421	0.365412529	0.468159703	0.620640672	0.307934
10405058	Omd	-0.417644571	-0.698703646	0.044418854	0.207562926	0.00255078	0.033507384	0.281059075	-0.558174109	0.503532985	0.597742081	0.30913
10492522	Schip1	-0.240667692	-0.39832624	0.039746548	0.194030886	0.002276183	0.030811126	0.157658548	-0.319496966	0.493458669	0.604197434	0.309248
10345666	Pdcl3	-0.230700453	-0.392689859	0.052810854	0.229132692	0.003062984	0.038109873	0.161989406	-0.3191695156	0.519704599	0.587487677	0.309541
10396608	Syne2	-0.397923531	-0.561478832	0.003036314	0.036730948	0.000193797	0.005149476	0.163555301	-0.479701182	0.340952466	0.708706203	0.310638
10445308	Cyp39a1	-0.270954889	-0.437888634	0.031301072	0.167766951	0.001819445	0.026207358	0.166933745	-0.354421762	0.47100309	0.618775798	0.312423
10406031	Lpcat1	-0.217905713	-0.378521366	0.065053267	0.258401	0.003898237	0.045092361	0.160615653	-0.29821354	0.538592757	0.575676126	0.312822
10580033	Cd97	-0.391102509	-0.61667392	0.023063205	0.140081956	0.001344002	0.021178582	0.22557141	-0.503888215	0.447661612	0.634212826	0.312906
10352717	Batf3	0.225200035	0.386540021	0.058781656	0.243395315	0.003508303	0.041884248	-0.161339986	0.305870028	0.5274789	0.582604706	0.31324
10492335	Rap2b	0.322535645	0.502306822	0.019859339	0.127405528	0.001172744	0.019027802	-0.179771176	0.412421234	0.435892146	0.642108829	0.314809
10556509	Spon1	-0.346585705	-0.511288368	0.008384037	0.07342254	0.000514899	0.010482369	0.164702663	-0.428937036	0.383978647	0.677867377	0.31622
10505894	Mtap	0.293653019	0.469677047	0.029474419	0.162210416	0.0017819	0.025823294	-0.176024028	0.381665033	0.4612003	0.62522327	0.319047

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10358589	Hmcn1	-0.572716657	-0.814765043	0.004327646	0.046425458	0.000286326	0.006843021	0.242048386	-0.69374085	0.348903176	0.702922471	0.321965
10418480	Gnl3	0.34863463	0.520851117	0.01135779	0.089343135	0.000712903	0.01325039	-0.172216488	0.434742874	0.396134124	0.669355634	0.322465
10376577		-0.347998279	-0.602471303	0.068338878	0.265856672	0.004369428	0.048635939	0.254473024	-0.475234791	0.535468003	0.577618016	0.322917
10410766	Nr2f1	-0.304496274	-0.481829796	0.027212032	0.155182945	0.001698112	0.024906932	0.177333522	-0.393163035	0.451043223	0.631958165	0.324471
10407563		-0.296206469	-0.485465392	0.042254296	0.201414541	0.002707978	0.034736312	0.189258922	-0.39083593	0.484241359	0.610149507	0.327641
10551025	Cd79a	0.364553246	0.588703501	0.035925705	0.182277327	0.002294083	0.030926746	-0.224150254	0.476628373	0.470283069	0.619247628	0.327794
10402864	Igh	0.291355761	0.442768982	0.016019108	0.111159356	0.00102684	0.01730622	-0.151413221	0.367062372	0.41249998	0.658031102	0.328063
10561854	Tbc1	0.284544324	0.447894673	0.026829198	0.154026361	0.001726755	0.025226156	-0.163350349	0.366219498	0.446044926	0.635292941	0.329759
10556583	Nucb2	0.308327514	0.500512615	0.038882319	0.191527055	0.002519914	0.033186997	-0.192185101	0.404420065	0.475211588	0.616023462	0.329979
10357191	Ptpn4	-0.287316461	-0.474953943	0.047203857	0.21532408	0.003081682	0.038286837	0.187637482	-0.381135202	0.492312126	0.604935416	0.330063
10412882	Thrb	-0.260190639	-0.441629741	0.061843977	0.250747972	0.004148497	0.046867797	0.181439102	-0.35091019	0.517052817	0.589160137	0.332184
10606071	Ercc6l	0.384544056	0.555406402	0.006908	0.064492231	0.000470726	0.009839255	-0.170862346	0.469975229	0.363556068	0.692365184	0.332684
10344750	Sgk3	0.3252543	0.517485084	0.031808173	0.16937079	0.002094444	0.028951239	-0.192230784	0.421369692	0.456204581	0.628528841	0.333428
10446986	Crim1	-0.325553155	-0.491268428	0.015402166	0.108781827	0.001024024	0.017292527	0.165715273	-0.408410792	0.405756352	0.662678765	0.334276
10440600	Cct8	0.331126482	0.489516452	0.010988492	0.087349835	0.000740629	0.013607982	-0.15838997	0.410321467	0.386014338	0.67643586	0.334741
10376094		0.225877482	0.375657657	0.052489056	0.228740911	0.003554386	0.042239672	-0.149780175	0.30076757	0.497993103	0.601285446	0.335453
10484402	Ctnnd1	-0.274695205	-0.42143048	0.020500795	0.129737282	0.001381366	0.021589501	0.146735275	-0.348062842	0.421576959	0.651816179	0.337544
10473399	Prg2	0.448394485	0.668467264	0.013171056	0.098310428	0.000897391	0.015766078	-0.220072779	0.558430874	0.394091352	0.670780021	0.337818
10420114	Tgm1	0.343886841	0.512513666	0.013203217	0.098403073	0.000902701	0.015794501	-0.168626825	0.428200253	0.393803655	0.670980822	0.338448
10528038	Adam22	-0.259889753	-0.431966239	0.054904138	0.234435009	0.003861496	0.044889895	0.172076485	-0.345927996	0.497434401	0.60164367	0.341576
10495134	Gm4248	0.305478314	0.452090918	0.012834985	0.096596624	0.000916324	0.015956724	-0.146612604	0.378784616	0.387060608	0.675701064	0.346059
10427895	Basp1	0.405034088	0.582765169	0.007694828	0.069446779	0.000563097	0.011161051	-0.177131081	0.493899629	0.359852631	0.695021099	0.346717
10359624	Prrx1	0.254627601	0.416865297	0.049353474	0.220245579	0.003555609	0.042239672	-0.162237696	0.335746449	0.483214927	0.61081506	0.346747
10576581	Kcnk1	0.408419129	0.575718849	0.005157097	0.052642046	0.00039079	0.00862493	-0.16729972	0.492068989	0.339992406	0.709407257	0.349009
10445347	Clic5	-0.365829266	-0.55709521	0.021104662	0.132347869	0.001526955	0.02302449	0.191265944	-0.461462238	0.414477997	0.65667279	0.350248
10413461	Erc2	-0.260233384	-0.429956797	0.055677984	0.236285434	0.004119296	0.036640531	0.169723412	-0.345095091	0.491816363	0.605254729	0.350308
10462237	Smarca2	-0.256358409	-0.412181124	0.042222502	0.201368855	0.003092397	0.038345717	0.155822715	-0.334269766	0.466158567	0.621955722	0.350811
10591816	Dpy19l1	0.41102924	0.592796748	0.008686995	0.075187505	0.000652131	0.012399175	-0.181767508	0.501912994	0.362149438	0.693372966	0.352503
10589350	Shisa5	0.379346696	0.591127146	0.029792631	0.162963706	0.002193791	0.030016117	-0.21178045	0.485236921	0.436447519	0.641734521	0.353265
10499988	2310007A19Rik	-0.271054637	-0.435437668	0.042911249	0.202994094	0.003195757	0.039285766	0.164383031	-0.353246153	0.465349813	0.622487802	0.353679
10361882	Nhs1l	-0.22942889	-0.375336037	0.052415929	0.228539504	0.003962917	0.045431065	0.145907148	-0.302382463	0.482525164	0.61126262	0.354754
10370544	2610008E11Rik	-0.253792493	-0.395943693	0.030859459	0.166372738	0.002299692	0.030969835	0.1421512	-0.324868093	0.437565902	0.640981274	0.355329
10601421	A630033H20Rik	0.615702294	0.878753901	0.007528757	0.068514801	0.000584383	0.011472304	-0.263051607	0.747228098	0.352036557	0.700653839	0.357448
10358587	Hmcn1	-0.397800752	-0.625944262	0.035533427	0.181182361	0.002710645	0.034736312	0.22814351	-0.511872507	0.445703778	0.635521046	0.359045
10483178	Cobll1	-0.221974717	-0.363767247	0.056078759	0.237099255	0.004403231	0.048948518	0.14179253	-0.292870982	0.484146736	0.610210839	0.360854
10346000	Gulp1	-0.263691137	-0.415820596	0.037236119	0.186420265	0.002879588	0.036392549	0.152129459	-0.339755867	0.447761096	0.634146407	0.361297
10561702	Kcnk6	0.276252093	0.414269547	0.019122057	0.124638128	0.001479264	0.02253397	-0.138017454	0.34526082	0.399748382	0.66684142	0.362277
10428232	Rrm2b	-0.305188353	-0.463955405	0.023792076	0.142486003	0.001854817	0.02656777	0.158767052	-0.384571879	0.412841032	0.657796741	0.363907
10498367	P2ry13	0.366882312	0.521055777	0.007788982	0.069953672	0.000637264	0.012188737	-0.154173464	0.443969045	0.347261743	0.704113319	0.367767
10485711	Fibin	-0.289198009	-0.446851625	0.031009914	0.16697346	0.002483004	0.032867162	0.157653615	-0.368024817	0.428377675	0.647190238	0.368411
10447118	Gm9959	-0.310061219	-0.469945614	0.0243912	0.144802899	0.001969433	0.027714582	0.159884396	-0.390003416	0.409956397	0.659781067	0.370392
10459262	Ablim3	-0.301705261	-0.447535175	0.017802741	0.119062212	0.001445847	0.022285348	0.145829914	-0.374620218	0.389274009	0.67414871	0.371169
10431035	Till12	0.308555367	0.455884811	0.016720069	0.114589347	0.001359769	0.021347121	-0.147329444	0.382220089	0.385457093	0.676827478	0.371253
10578222	Dlc1	-0.271206174	-0.433249224	0.047655989	0.216633428	0.003955164	0.045423337	0.16204305	-0.352227699	0.460051979	0.625981904	0.372544
10506050	Nfia	-0.306225062	-0.480736258	0.040271036	0.195291317	0.003373006	0.040781121	0.174511196	-0.39348066	0.443506412	0.636991816	0.375511
10604944	Gabre	-0.299288911	-0.432492595	0.0121324	0.092959533	0.001021252	0.017268438	0.133203685	-0.365890753	0.364053159	0.692009329	0.376409
10456653	Myo5b	-0.304155246	-0.459915422	0.025578773	0.14969356	0.002153569	0.029536427	0.155760176	-0.382035334	0.40771144	0.661328629	0.378183
10411668	Ocnl	-0.360116873	-0.509236086	0.008230838	0.072526316	0.00071143	0.013242187	0.149119213	-0.43467648	0.34305793	0.707170765	0.378826
10415784	Trim13	-0.273464308	-0.417969013	0.030262023	0.164290523	0.002582284	0.033748512	0.144504705	-0.34571666	0.417985945	0.654269335	0.380351
10382435	Gprc5c	-0.306288023	-0.468340328	0.031278492	0.167739661	0.002710156	0.034736312	0.162052305	-0.387314176	0.418400139	0.653986012	0.383129
10604906	lds	-0.3440072	-0.48519326	0.008370067	0.073400365	0.000743255	0.013636797	0.14118606	-0.41460023	0.340535411	0.709010674	0.384232
10567049	Copb1	0.374837153	0.532457755	0.009862898	0.081849613	0.000877635	0.015471929	-0.157620601	0.453647454	0.347451749	0.703975386	0.385866
10403558	Ero1lb	0.386692899	0.567136508	0.017896521	0.11944043	0.001586985	0.023738193	-0.180443609	0.476914703	0.378356146	0.681833903	0.387911
10373834	Sec14l4	-0.273532372	-0.419165337	0.033871317	0.176243456	0.003023118	0.037737395	-0.145632966	-0.346348855	0.420480575	0.652564388	0.388437
10578322	Pdgrfl	0.322032019	0.466847905	0.015075737	0.107400507	0.001354261	0.021286699	-0.144815886	0.394439962	0.367143037	0.689800716	0.38994
10403455	Dip2c	-0.246129115	-0.384543324	0.043804241	0.205712987	0.003995112	0.045613167	0.138414209	-0.31533622	0.438941675	0.640055619	0.390952

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10494428	Txnip	-0.362981582	-0.513724198	0.009846094	0.081790148	0.00090159	0.015794501	0.150742616	-0.43835289	0.343884161	0.706568979	0.391479
10385153	Ccdc99	0.54614532	0.768932685	0.009090857	0.077600309	0.000843124	0.014976678	-0.222787365	0.657539002	0.33882	0.710264151	0.39344
10458828	Cdo1	-0.310927938	-0.46156718	0.02297207	0.139693697	0.002094406	0.028951239	0.150639242	-0.386247559	0.390006975	0.673635283	0.393485
10457071	Cyb5	-0.389221282	-0.5613832	0.015921632	0.110902703	0.001521331	0.022970303	0.172161919	-0.475302241	0.362215668	0.693325489	0.402229
10374590	Xpo1	0.303552787	0.4365412	0.015234783	0.108053718	0.001461046	0.022341715	-0.132988413	0.370046994	0.359382498	0.695358851	0.402824
10444407	Ager	-0.322976558	-0.499321782	0.043293785	0.204276633	0.004205522	0.047386889	0.176345224	-0.41114917	0.428908137	0.646830499	0.403201
10603425	Glod5	0.373779251	0.530850867	0.012491844	0.094779972	0.001217424	0.019628675	-0.157071616	0.452315059	0.347261523	0.704113479	0.405245
10552917	1700039E15Rik	0.245511778	0.377318344	0.04185041	0.200189403	0.00414327	0.046833829	-0.131806566	0.311415061	0.423250454	0.650675436	0.40718
10433264	Glis2	-0.258215261	-0.385610517	0.028899862	0.160147161	0.002833676	0.035936162	0.127395255	-0.321912889	0.3957445	0.669627124	0.407285
10481678	6330409D20Rik	-0.305213201	-0.455900844	0.029017963	0.16052437	0.002846669	0.036065297	0.150687643	-0.380557022	0.395966003	0.66947277	0.40737
10553559	Siglech	0.303371637	0.445769608	0.022913388	0.139535194	0.002246836	0.030546502	-0.142397971	0.374570623	0.380163212	0.680557022	0.407749
10358535	Hmnc1	-0.585567644	-0.84377601	0.017581832	0.118166852	0.001764847	0.025652954	0.258208366	-0.714671827	0.361296411	0.693984703	0.412277
10590060	Ctdspl	-0.271450565	-0.404639332	0.029814727	0.163034601	0.003008917	0.037619524	0.133188767	-0.338044949	0.39399721	0.670845723	0.412886
10593449	Layn	-0.267283156	-0.403895458	0.03596095	0.182388782	0.003654632	0.043090074	0.136612302	-0.335589307	0.407081809	0.661763213	0.413376
10417124	B930095G15Rik	-0.336214343	-0.490311006	0.022324267	0.137085956	0.00228345	0.030857755	0.154096663	-0.413262674	0.37287825	0.685716492	0.416184
10497998		0.29732751	0.429287231	0.019429268	0.125931841	0.002007114	0.028106167	-0.131959722	0.36330737	0.363217849	0.692607392	0.418176
10495035	Slc16a1	0.28078307	0.409826782	0.023560952	0.141923767	0.00245604	0.03257966	-0.129043712	0.345304926	0.373709446	0.685126209	0.419945
10592061	Kcnj5	-0.31699526	-0.461310102	0.022521176	0.137932129	0.002348255	0.031425975	0.144314842	-0.389152681	0.370843756	0.687163057	0.420043
10442240	Zfp760	-0.274388489	-0.400744962	0.024220651	0.144165035	0.002546406	0.033467046	0.126356473	-0.337566726	0.374315545	0.684696041	0.421624
10393449	Socs3	0.368395168	0.527830383	0.017783756	0.118966235	0.001870826	0.026734324	-0.159435215	0.448112776	0.355792612	0.697942331	0.421767
10523182	Areg	0.290299961	0.410206296	0.014009492	0.102255463	0.001483779	0.022570317	-0.119906335	0.350253128	0.342341939	0.707692602	0.42256
10589685	Lrrc2	-0.434551267	-0.624007392	0.018724143	0.123107402	0.001980778	0.027814012	0.189456125	-0.52927933	0.357951112	0.696388012	0.422963
10391103	Jup	-0.284262067	-0.421131143	0.031046735	0.167031563	0.003338752	0.040495537	0.136869075	-0.352696605	0.388064624	0.674996547	0.425461
10429446	Gm628	-0.303076622	-0.43122301	0.017623584	0.118264613	0.001944209	0.02743483	0.128146388	-0.367149816	0.349030239	0.702830356	0.431487
10477237	BC020535	-0.284310163	-0.416457159	0.029423577	0.16206961	0.003328947	0.040438907	0.132146997	-0.350383661	0.377149426	0.682687658	0.436039
10556216	Ipo7	0.346994863	0.488708266	0.015984931	0.111072339	0.001827202	0.026287927	-0.141713403	0.417851564	0.339147715	0.710024542	0.438694
10344981	Pi15	0.311490554	0.44805556	0.022943783	0.139616406	0.002621234	0.033997891	-0.136565006	0.379773057	0.359596353	0.695205197	0.438713
10375167	Gm6041	0.306007697	0.43835087	0.022449566	0.137624903	0.002615605	0.033952574	-0.132343173	0.372179283	0.355589843	0.69808849	0.442821
10578950	Gm10664	-0.277144775	-0.394278801	0.021465489	0.133797033	0.002575448	0.03369276	0.117134027	-0.335711788	0.348912462	0.702915738	0.449016
10606445	Rps6ka6	-0.293934748	-0.426780161	0.031483912	0.168389363	0.003909322	0.045118924	0.132845413	-0.360357455	0.368648994	0.688726363	0.4551
10436451	Stx19	-0.30074364	-0.422260865	0.019724077	0.126886618	0.002508219	0.033083747	0.121517226	-0.361502253	0.336145141	0.712222383	0.461411
10533844	Rip12	0.293199401	0.42002327	0.028838118	0.159874043	0.003760684	0.043979073	-0.126823869	0.356611335	0.355636114	0.698055135	0.465931
10493626	1700094D03Rik	-0.439821352	-0.631570142	0.029933803	0.163407245	0.003908542	0.045118924	0.19174879	-0.535695747	0.357943462	0.696393516	0.466034
10382425	Gprc5c	-0.289119552	-0.404062362	0.020603174	0.130256716	0.002755632	0.035170859	0.11494281	-0.346590957	0.331638226	0.715532005	0.472258
10492205	Eif2a	0.339517248	0.483573813	0.029964793	0.163461976	0.004134298	0.046789748	-0.144056565	0.411545531	0.350037976	0.702100153	0.477912
10561128	Cyp2s1	-0.265947574	-0.374948112	0.026950532	0.154515579	0.00379766	0.044279472	0.109000539	-0.320447843	0.340150639	0.709291672	0.482981
10420785	Mtmr9	-0.348234303	-0.488338969	0.027782415	0.156775595	0.004111829	0.046576531	0.140104666	-0.418286636	0.334948942	0.713099557	0.493661

Dataset S 1B: Genes showing a larger saline to OVA differential in NIH than congenic *Tgfbm2/3* mice $\Delta$ NIH S-O >  $\Delta$ Tgfbm2/3 S-O

Probe ID	GeneName	logFC.NIH	logFC.Tgfbm2/3	P.Value.NIH	adj.P.Val.NIH	P.Value.Tgfbm2/3	adj.P.Val.Tgfbm2/3	M = logFC diff	A = logFC avg	Abs(M/A)	Abs logFC ratio	P.Value.Interaction
10362424	Trdn	-1.172676654	0.323996161	8.08E-007	9.78E-005	0.031067767	0.183616728	-1.496672814	-0.424340246	3.527058361	3.619415277	2.53E-006
10555889	Olfrr63	-0.427185024	0.265198576	0.00105079	0.017506811	0.021907864	0.147148196	-0.6923836	-0.080993224	8.548660787	1.610811909	0.00341884
10423738		-0.640193698	0.041703266	7.30E-005	0.002537799	0.716828929	0.897772271	-0.681896964	-0.299245216	2.278723026	15.3511645	0.000878445
10402981	Gm900	0.781030118	0.085485857	1.44E-005	0.000754561	0.476457938	0.773396721	0.695544261	0.433257987	1.605381277	9.136366479	0.000997005
10351043		1.062617294	0.4529782	2.36E-007	3.82E-005	0.001129997	0.018545245	0.609639094	0.757797747	0.804487867	2.345846429	0.00164867
10392096		0.596668705	-0.056813921	0.000221377	0.00564842	0.638873746	0.860573601	0.653482626	0.269927392	2.420957061	10.50215679	0.00178729
10503613	Gm11878	0.808835952	-0.01480398	0.000114454	0.003476705	0.922418796	0.975183637	0.823639932	0.397015986	2.074576243	54.63638366	0.00179206
10545220	Igk	1.384262829	0.537022188	6.15E-007	7.91E-005	0.004079216	0.0463093	0.84724064	0.960642509	0.881952061	2.577664124	0.00189288
10397559	Gm8655	-0.60543591	0.254275889	0.001990805	0.027282427	0.129729949	0.41812008	-0.859711799	-0.17558001	4.896410461	2.381019732	0.00193224
10473483	Olfrr1029	-0.397831781	0.224440722	0.004274005	0.046094608	0.073369206	0.307016755	-0.622272502	-0.08669553	7.177676928	1.772547236	0.0021253
10538636	V1rc2	-0.485917528	0.090371311	0.000673695	0.012696338	0.42489343	0.737152048	-0.576288839	-0.197773108	2.913888767	5.376900279	0.00258124
10548314	Klrb1b	-0.3884294	0.184700419	0.003541182	0.040668933	0.115214959	0.39347227	-0.573129819	-0.101864491	5.626394575	2.130223931	0.00263766
10559580	Syt5	-0.478876743	0.096241714	0.000888836	0.015637184	0.405285127	0.722695472	-0.575118457	-0.191317514	3.006094135	4.975771116	0.00300886

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10376404	Olfr320	-0.402896917	0.172506885	0.003313903	0.039036833	0.148799465	0.451463908	-0.575403801	-0.115195016	4.995040771	2.335541085	0.00309679
10551250		-0.825076236	-0.058116371	0.000100015	0.003138356	0.70451321	0.891820539	-0.766959865	-0.441596304	1.736789594	14.19696756	0.00310589
10451291	Slc22a7	-0.547979459	0.129521022	0.001199039	0.019151795	0.34795345	0.676662562	-0.677500482	-0.209229219	3.23807777	4.230814813	0.00320535
10514830	Ttc4	0.438564713	-0.11677346	0.001636839	0.023671075	0.31154225	0.644118186	0.555338173	0.160895627	3.451542988	3.75568828	0.00360208
10558673	Cyp2e1	-1.076854373	-0.431788431	2.13E-006	0.000193491	0.006755925	0.066136947	-0.645065942	-0.754321402	0.855160599	2.493939845	0.00476476
10385325	Pttg1	0.622959049	0.135555801	4.14E-005	0.001667696	0.21185178	0.538601814	0.487403248	0.379257425	1.285151498	4.595591216	0.00531692
10522494	Gm6116	-0.383920273	0.138985916	0.004535067	0.047962958	0.237428889	0.569563058	-0.522906189	-0.122467179	4.269765942	2.762296247	0.00578355
10414965		-0.611739999	0.17393735	0.003391902	0.039654451	0.328313633	0.658783172	-0.785677349	-0.218901325	3.589184992	3.51701345	0.00637644
10543017	Pdk4	-1.04655473	-0.470585571	1.46E-006	0.000144537	0.002505257	0.033078667	-0.575969159	-0.75857015	0.759282656	2.223941391	0.00656963
10521964	Gm10440	-0.4515427	0.059461926	0.001454887	0.021838623	0.605758825	0.84395911	-0.511004626	-0.196040387	2.606629351	7.593812177	0.00675156
10568480	Nsmce4a	0.373800016	-0.102535715	0.003489157	0.040305892	0.346965204	0.676115824	0.476335732	0.13563215	3.511967702	3.645559157	0.00686921
10578690	Neil3	1.30702682	0.834128621	1.56E-008	5.28E-006	2.81E-006	0.000241116	0.472898199	1.07057772	0.441722437	1.566936786	0.00789046
10350504	Gm5263	0.527312774	0.028449937	0.000463027	0.00971788	0.806471505	0.936589928	0.498862838	0.277881356	1.795236807	18.53476079	0.00841303
10591123	Fat3	-1.095173841	-0.613527892	1.87E-007	3.26E-005	8.98E-005	0.002885897	-0.481645948	-0.854350866	0.56375661	1.785043279	0.008571
10602196	Rgag1	-0.483747939	0.050463405	0.001711552	0.024433886	0.688454933	0.886915276	-0.534211344	-0.216642267	2.465868508	9.58611375	0.00892764
10451800	4921523A10Rik	-0.4283852	0.103245984	0.003987696	0.044214333	0.415768093	0.73119344	-0.531631183	-0.162569608	3.270175711	4.149170595	0.00908137
10538567	V1rc32	-0.594230623	-0.115167942	0.000131739	0.00385134	0.319234209	0.650583857	-0.479062682	-0.354699283	1.350616438	5.159687791	0.00933731
10396694	Churc1	0.408102744	-0.073061638	0.002914483	0.035759542	0.52472464	0.801506475	0.481164382	0.167520553	2.872270733	5.585732216	0.00937618
10546533		-0.412028817	0.081073922	0.003754551	0.042360845	0.500843857	0.788787588	-0.493102739	-0.165477447	2.979878814	5.082137448	0.0106474
10540296		-0.573383887	0.022572342	0.001368868	0.020914347	0.87580754	0.958085258	-0.595956229	-0.275405772	2.163920618	25.40205538	0.010691
10585377		-0.374614084	0.066428808	0.003432061	0.039933886	0.538142878	0.809722223	-0.441042892	-0.154092638	2.862193145	5.639331711	0.0108424
10492448	Ptx3	1.004688405	0.470229082	2.55E-006	0.000216178	0.002702357	0.0346994	0.534459323	0.737458743	0.724731115	2.136593512	0.0108919
10487033	Myef2	0.533573013	0.039243995	0.000616147	0.011968679	0.747135458	0.909990034	0.494329018	0.286408504	1.725957894	13.59629709	0.0115969
10566678	Olfr485	0.395710375	-0.063435117	0.003483332	0.040274716	0.578141143	0.831276617	0.459145493	0.166137629	2.763645392	6.23803331	0.0119202
10453715	Rab18	1.312631572	0.738555662	3.41E-007	5.07E-005	0.000140198	0.004083921	0.57407591	1.025593617	0.559749886	1.777295388	0.0119695
10461150		1.301270862	0.462797943	2.40E-005	0.001116424	0.041037237	0.218445417	0.838472919	0.882034402	0.95061249	2.811747291	0.01227
10442493		1.147410031	0.513906621	4.85E-006	0.000349603	0.005417026	0.056430285	0.633503409	0.830658326	0.762652211	2.232720854	0.0123385
10575144	Nip7	0.599512217	0.023632717	0.000934151	0.016168432	0.869436529	0.95651358	0.575879499	0.311572467	1.848300349	25.36789183	0.0126385
10502196	Rpl34	0.545036062	-0.04907054	0.002431282	0.031597355	0.741307398	0.906602141	0.594106601	0.247982761	2.395757667	11.10719522	0.0126755
10489528	Wfdc9	-0.492789089	-0.040878551	0.000661428	0.012529554	0.718602104	0.898795381	-0.451910538	-0.26683382	1.693602927	12.05495499	0.012885
10566800	Ascl3	-0.422871877	0.06459063	0.004280249	0.046139116	0.607009523	0.844203286	-0.487462507	-0.179140624	2.721116501	6.546953921	0.0146245
10597511	Gm5921	1.669656098	0.658122493	1.78E-005	0.000878131	0.022490797	1.149519235	1.011533605	1.163889295	0.869097782	2.536998987	0.0146475
10407803	Gpr137b	0.790142803	0.231100108	8.91E-005	0.002907358	0.127084945	0.413332028	0.559042695	0.510621455	1.094828055	3.419049908	0.0153482
10538269		0.754743889	0.341897592	6.73E-006	0.000437371	0.00612793	0.061562307	0.412846296	0.54832074	0.75292847	2.207514489	0.0153552
10568150	Kif22	0.55389459	0.093573646	0.000418011	0.009009147	0.442317132	0.749243003	0.460320944	0.323734118	1.421910507	5.919343882	0.0162912
10420155	Dhrs1	0.591064179	0.149677201	0.000183545	0.004959869	0.214532345	0.541456856	0.441386978	0.37037069	1.191743812	3.948925923	0.0174412
10482772	Nr4a2	-0.591040232	-0.176917531	0.000102659	0.003201763	0.124275205	0.408479881	-0.4141227	-0.383978881	1.078503846	3.340766896	0.017487
10550459	Gm5155	-0.477537668	-0.07580368	0.000570027	0.011333421	0.485710469	0.779690667	-0.401733988	-0.276670674	1.452029527	6.299663388	0.0185326
10606060	Gm4779	-0.390859056	0.042558221	0.00455344	0.048097815	0.715716462	0.897049836	-0.433417276	-0.174150417	2.488752438	9.184102398	0.0188342
10515090	Cdkn2c	0.38252636	-0.016984316	0.003037841	0.036730948	0.874455281	0.957739318	0.399510677	0.182771022	2.185853491	22.5223291	0.0188415
10468738	1700019N19Rik	-0.383777859	0.013427768	0.00288766	0.035488721	0.900174999	0.967347762	-0.397205626	-0.185175045	2.145027835	28.5809124	0.0190136
10577623	Gins4	0.675931079	0.246658772	4.70E-005	0.00184828	0.048734434	0.242660611	0.429272307	0.461294926	0.93058103	2.740348838	0.0190372
10538706	Mmrr1	-0.890728008	-0.456614584	3.11E-006	0.000253202	0.00159067	0.023767516	-0.434113424	-0.673671296	0.644399467	1.950721768	0.0192732
10519555	Abcb1b	0.762782476	0.260875724	7.09E-005	0.002487064	0.07274269	0.305390804	0.501906752	0.5118291	0.980613942	2.923930456	0.0197512
10541575	Clec4a4	0.573536038	0.125897614	0.000361073	0.008073199	0.313945906	0.646275727	0.447638424	0.349716826	1.280002535	4.555575115	0.0206029
10384930	4930505A04Rik	-0.484847869	-0.058629527	0.000970037	0.016577166	0.617339256	0.849735308	-0.426218341	-0.271738698	1.568485991	8.269687473	0.0206945
10490913	Car3	-1.449915421	-0.807695978	1.30E-006	0.00013294	0.000435096	0.009298954	-0.642219443	-1.128805699	0.568937102	1.795125221	0.0209434
10595094	2310046A06Rik	-0.763876755	-0.342286674	1.44E-005	0.000754561	0.010168782	0.088628962	-0.421590081	-0.553081715	0.762256407	2.231687099	0.0213646
10428004	Ankrd33b	-0.715184757	-0.32572169	1.28E-005	0.000700758	0.008644976	0.079115147	-0.389463067	-0.520453223	0.748315217	2.19569276	0.021576
10420668		0.559857902	0.031683697	0.001807293	0.025418959	0.828664445	0.942930448	0.528174205	0.295770799	1.785755071	17.67022015	0.0218336
10450694	H2-T22	0.471233038	0.062960294	0.000941777	0.016225242	0.579936241	0.83179007	0.408272745	0.267096666	1.528557996	7.484606725	0.0218365
10604743	Snord61	1.041958337	0.395486775	5.10E-005	0.001955703	0.043009774	0.224796353	0.646471562	0.718722556	0.899473039	2.63462245	0.0223378
10449363	Nudt3	0.475544554	0.027151213	0.001897148	0.026387069	0.828282881	0.942768169	0.448393341	0.251347883	1.78395511	17.51467073	0.0226119
10383309		0.912482273	0.464902502	4.88E-006	0.000349883	0.002260104	0.030633438	0.447579771	0.688692388	0.64989795	1.962739001	0.0229717
10411728	Cenph	1.458503112	0.882917137	4.37E-007	6.06E-005	8.67E-005	0.00281608	0.575585975	1.170710125	0.491655418	1.651913924	0.022973
10368886	Foxo3	-0.411471747	0.018952862	0.004049861	0.044710469	0.875130843	0.957933012	-0.430424609	-0.196259442	2.193140899	21.71026919	0.0230775

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10408321	Gmnn	0.659889538	0.269661584	3.47E-005	0.001465408	0.026038691	0.164297226	0.390227954	0.464775561	0.839605148	2.447102505	0.0233147
10518855	Klh121	-0.406566767	0.016477105	0.003982716	0.044200023	0.889745554	0.9637514	-0.423043872	-0.195044831	2.168957105	24.67464805	0.0233954
10601854	Wbp5	1.071563666	0.566165788	3.98E-006	0.000301537	0.001504149	0.022764444	0.505397878	0.818864727	0.617193368	1.892667642	0.025348
10345167	Gm9443	-0.593012032	-0.203895909	0.000117636	0.0003540464	0.085610627	0.335130939	-0.389116124	-0.39845397	0.976564805	2.908405748	0.0260498
10467420	Pdlm1	0.591424027	0.118727717	0.000666338	0.012595177	0.389406003	0.710244673	0.47269631	0.355075872	1.331254381	4.981347593	0.0262011
10515282	Tspan1	0.775230912	0.361565432	1.64E-005	0.000822889	0.008632022	0.079102725	0.41366548	0.568398172	0.727774121	2.144095768	0.0266745
10585706	Cox5a	0.943032979	0.520083537	2.72E-006	0.00022456	0.00081975	0.014683428	0.422949442	0.731558258	0.578148681	1.813233668	0.0272403
10489078	Dsn1	0.70764774	0.295238462	4.50E-005	0.001786616	0.026747188	0.167205751	0.412409278	0.501443101	0.822444814	2.3968684	0.0283364
10419323	Dlgap5	1.275571169	0.803481177	3.58E-007	5.29E-005	5.01E-005	0.001895716	0.472089992	1.039526173	0.454139592	1.587555757	0.0287162
10368041	3110003A17Rik	0.814729043	0.368576116	2.51E-005	0.001156322	0.013106509	0.105436794	0.446152927	0.591652579	0.75407924	2.210477044	0.0288064
10405994	Med10	0.545893061	0.173922231	0.000202126	0.00530012	0.128272995	0.415354011	0.37197083	0.359907646	1.033517443	3.138719289	0.0288218
10419170	Txndc16	0.528691499	0.169331435	0.000199004	0.005249322	0.125841656	0.411163905	0.359360064	0.349011467	1.029651166	3.122228895	0.0289201
10353034	Snord87	1.040072029	0.516570068	1.07E-005	0.000619497	0.004512683	0.049693293	0.523501961	0.778321048	0.672604143	2.013419078	0.0289862
10576152	Trappc2l	0.509039994	0.09799415	0.000919448	0.015956992	0.426766339	0.738007033	0.411045844	0.303517072	1.354275859	5.194595721	0.0300886
10373036	Os9	0.409297299	0.033653445	0.002460481	0.031864594	0.76334312	0.917242744	0.375643854	0.221475372	1.69609763	12.16212178	0.0304483
10563939		0.521563324	0.088702363	0.001169887	0.01882674	0.494542176	0.784347555	0.432860961	0.305132843	1.418598393	5.879925949	0.0305476
10366814	Cdk4	0.591183676	0.133411053	0.00068295	0.012795587	0.336502264	0.666770119	0.457772623	0.362297364	1.263527335	4.431294589	0.0307769
10362674	Rnu3a	1.233004366	0.50097056	6.47E-005	0.002324459	0.035727222	0.201136924	0.732033806	0.866987463	0.844341858	2.461231185	0.0308847
10427667		-0.608357667	-0.14798199	0.000575574	0.011426009	0.291963921	0.626389997	-0.460375677	-0.378169828	1.217378127	4.111025051	0.0310776
10561679	Psmd8	0.908076717	0.506680928	3.51E-006	0.000277191	0.000900375	0.015794501	0.401395789	0.707378822	0.56744106	1.792206233	0.0324183
10369252	Sept10	0.42395969	0.072913188	0.001322234	0.020432445	0.496542122	0.785670642	0.351046502	0.248436439	1.413023402	5.814581726	0.0331587
10562576	Plekhf1	0.690846924	0.259171904	0.000123257	0.003666007	0.064525308	0.285459427	0.43167502	0.475009414	0.908771504	2.665593425	0.0333763
10576657		-0.403059828	-0.020928834	0.003621486	0.04130984	0.857085664	0.951748856	-0.382130995	-0.211994331	1.802552894	19.25859017	0.0337706
10547752	Gm5077	0.502019437	0.046650261	0.00268417	0.03382828	0.736877205	0.905140228	0.455369176	0.274334849	1.659902768	10.76134241	0.0339142
10445153	Olf1r21	0.498825552	0.083799278	0.001503156	0.022310191	0.513423879	0.794894996	0.415026274	0.291312415	1.424677606	5.95262351	0.0349776
10440783	Edn1	-0.571853123	-0.210574542	0.000153587	0.004327417	0.074985087	0.311331189	-0.391278582	-0.391213833	0.923481103	2.715680245	0.0353351
10491780	Hspa4l	-0.572974306	-0.130933889	0.000878325	0.015505404	0.34520158	0.674758709	-0.442040417	-0.351954098	1.255960421	4.376058096	0.03595
10430425	Lgals2	-0.425011174	-0.048251869	0.002549849	0.032659438	0.679600082	0.882423876	-0.376759484	-0.236631431	1.592178529	8.808213356	0.0363372
10369885	Cisd1	0.502703646	0.147119426	0.000443347	0.009420385	0.195893555	0.517399794	0.35558422	0.324911536	1.094403184	3.416976659	0.0365114
10490047	AY702102	-0.4112293537	-0.073399144	0.001504298	0.022310191	0.489082649	0.781922979	-0.338894392	-0.24284634	1.395509572	5.617143655	0.0368937
10575733	Cenpn	0.855274111	0.496358725	2.76E-006	0.000226781	0.00054587	0.010912296	0.358915387	0.675816418	0.531084148	1.723096762	0.0369543
10540028	Klf15	-0.612949307	-0.272589768	5.06E-005	0.001947039	0.02078679	0.141992793	-0.340359539	-0.442769537	0.768705863	2.24861451	0.0371227
10459844	Haus1	0.472040828	0.127606151	0.000605652	0.011821953	0.246644015	0.580317607	0.344434677	0.299823489	1.148791502	3.699201205	0.0375178
10434698	Fetub	0.789221792	0.422377268	9.03E-006	0.000543073	0.002410089	0.032116109	0.366844524	0.60579953	0.605554322	1.868523359	0.0383573
10451547	Gm16494	1.214934014	0.750691755	1.11E-006	0.000120569	0.00015442	0.004346108	0.464242259	0.982812885	0.472360778	1.618419285	0.038851
10600781	Gm4990	-0.457942116	-0.125096929	0.000636102	0.0121796	0.244630142	0.577928126	-0.332845188	-0.291519523	1.141759511	3.660698312	0.0391372
10606868	Bex1	0.77433005	0.152522532	0.001414201	0.021395099	0.44135383	0.748260905	0.621807518	0.463426291	1.34176142	5.076824	0.0393721
10406581	Dhfr	0.899144507	0.560750187	9.76E-007	0.000109292	0.000127292	0.003781622	0.338394321	0.729947347	0.463587301	1.603467156	0.0394228
10550217	Crxos1	-0.442577243	-0.085251021	0.001498933	0.022304116	0.454672287	0.757843751	-0.357326221	-0.263914132	1.353948796	5.19145971	0.0397551
10358191	Camsap11	-0.467298096	-0.129057381	0.000639381	0.012183844	0.240024683	0.572207074	-0.338240715	-0.298177738	1.134359383	3.620855262	0.0399376
10376887	Snord49a	0.578327203	0.114313547	0.001443655	0.021720824	0.441008079	0.747969753	0.464013656	0.346320375	1.339839322	5.05913096	0.0399733
10529799	Cpeb2	-0.409016567	-0.04522926	0.00307872	0.036996526	0.695239762	0.889521408	-0.363787307	-0.227122913	1.601719975	9.043185063	0.0401902
10414711		0.753546032	0.368375412	2.89E-005	0.001266255	0.009118496	0.081892757	0.38517062	0.560960722	0.686626719	2.045592642	0.0414776
10374790	LOC100046559	-0.619611861	-0.254850677	0.00011563	0.003495865	0.040021824	0.227996806	-0.364761184	-0.437231269	0.834252281	2.431274138	0.041889
10501895	Myoz2	-1.589242411	-1.114663286	8.60E-008	1.74E-005	4.74E-006	0.0003369	-0.474579125	-1.351952849	0.351032305	1.425760075	0.0429651
10399874	Bcap29	1.127659137	0.772630623	1.67E-007	2.95E-005	1.10E-005	0.000627574	0.355028513	0.95014488	0.37365724	1.459506137	0.0436125
10427910	Fam105b	0.612750826	0.218444161	0.000282739	0.006713541	0.103646319	0.370683255	0.394306665	0.415597493	0.948770557	2.805068461	0.0436694
10470182	Bmyc	-0.395266728	-0.060455174	0.002521811	0.032388126	0.578385438	0.831332497	-0.334811554	-0.227860951	1.469367842	6.538178646	0.0437601
10516778	Zcchc17	0.426697507	0.053825786	0.003154719	0.037593005	0.65636885	0.869737011	0.372871721	0.240261647	1.551940255	7.927380888	0.0438991
10526217	Rfc2	0.526064762	0.128512112	0.001088629	0.017900663	0.326786041	0.656950509	0.39755265	0.327288437	1.214685901	4.093503355	0.0440292
10445528	BC040756	-0.478732412	-0.117045531	0.001087234	0.017889175	0.326326385	0.656439724	-0.361686881	-0.297888972	1.214166738	4.090138321	0.0440476
10586448	2810417H13Rik	0.978586853	0.539468975	9.12E-006	0.000544224	0.001957051	0.027600873	0.439117878	0.759027914	0.578526652	1.813981708	0.044616
10502232	Aimp1	0.534360923	0.137112707	0.0009899	0.016815857	0.298315263	0.631624502	0.397248216	0.335736815	1.183213156	3.897238528	0.0448098
10415606		0.429252926	0.033790868	0.004773158	0.049884946	0.7935173	0.931432097	0.395462058	0.231521897	1.708097863	12.70322274	0.0454953
10553635	Nipa1	-0.375112412	-0.047151054	0.003533388	0.040656533	0.662718886	0.873236243	-0.327961358	-0.211131733	1.553349435	7.955546719	0.0468562
10398173	Vrk1	1.09899477	0.770935016	1.20E-007	2.30E-005	6.42E-006	0.000420075	0.328059754	0.934964893	0.350879222	1.425534899	0.0483285

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10562169	Hamp	-1.692028628	-1.167903379	1.90E-007	3.30E-005	1.15E-005	0.000641871	-0.524125249	-1.429966004	0.366529867	1.448774495	0.048752
10591072	Ccdc67	0.492655833	0.150578663	0.000692442	0.012898118	0.200217669	0.52357275	0.34207717	0.321617248	1.06361575	3.271750618	0.0492895
10578427	F11	-0.455746823	-0.104284068	0.001595707	0.02319287	0.380432195	0.702615448	-0.351462755	-0.280015446	1.255154886	4.370243993	0.0496386
10538808		-0.459544284	-0.082153185	0.00255956	0.032734826	0.517754996	0.797951957	-0.377391099	-0.270848734	1.393364825	5.593748874	0.0500028
10578413	Gm5346	-0.512387659	-0.090717838	0.00264324	0.033464917	0.523587451	0.801180772	-0.421669821	-0.301552749	1.398328559	5.648146695	0.0504877
10585874	Hexa	1.310312558	0.915671057	1.54E-007	2.79E-005	8.37E-006	0.000509215	0.394641502	1.112991808	0.354577185	1.430986104	0.0507745
10475708	Blvra	0.506145683	0.143331593	0.000964201	0.016513616	0.251666542	0.586102147	0.36281409	0.324738638	1.117249528	3.531291829	0.0511608
10466903	443040218Rik	-0.429296131	-0.118429674	0.001072266	0.017739825	0.269668465	0.606010344	-0.310866457	-0.273862902	1.135117078	3.624903439	0.0518407
10371082	Itgb1bp3	-0.450731159	-0.11984672	0.001205155	0.019213622	0.293509724	0.62746555	-0.330884439	-0.28528894	1.159822177	3.76089691	0.0521159
10519988	Al847670	0.396102778	0.059912116	0.003485478	0.040281521	0.599583248	0.841173087	0.336190662	0.228007447	1.474472286	6.61139688	0.0522874
10545215	Igk-V28	1.012979026	0.63606014	1.87E-006	0.000177222	0.000203727	0.005325106	0.376918887	0.824519583	0.45713758	1.592583725	0.0523876
10456001	Rps14	0.587560941	0.110662173	0.002564398	0.032764052	0.496094237	0.785500393	0.476898768	0.349111557	1.366035464	5.309501199	0.0524104
10536324	Asb4	0.365862334	0.046147277	0.004325571	0.046425458	0.671001273	0.877171413	0.319715057	0.206004805	1.551978635	7.928145657	0.0528876
10360076	Ndufs2	0.503354343	0.132314502	0.001294148	0.020112497	0.303101364	0.636818025	0.371039841	0.317834422	1.167399801	3.804226573	0.0531679
10375561	Olfr1387	-0.424500666	-0.055152686	0.004271447	0.046086377	0.661190172	0.87236861	-0.36934798	-0.239826676	1.540062127	7.696826765	0.053392
10356145	Slc19a3	-1.040632355	-0.573700092	1.49E-005	0.000766541	0.002750132	0.035119592	-0.466932263	-0.807166223	0.578483402	1.813896091	0.053881
10571567	Sorbs2	-0.743883377	-0.311367593	0.000183377	0.004959869	0.050249457	0.247487675	-0.432515784	-0.527625485	0.819740132	2.389084139	0.0538907
10525103	lqcd	-0.355090149	-0.045335435	0.004563858	0.048168216	0.669765109	0.876572429	-0.309754714	-0.200212792	1.547127492	7.832507889	0.0549347
10463981	Rbm20	-0.442146471	-0.061261092	0.004560716	0.045909007	0.639637343	0.860871716	-0.380885379	-0.251703781	1.513228674	7.217410898	0.0549928
10356999	Prdx2	0.770567662	0.29290787	0.000351573	0.007902069	0.091872211	0.348275869	0.477659791	0.531737766	0.898299541	2.63075096	0.0559461
10598612	Otc	-0.380486587	-0.069503413	0.003088984	0.037085141	0.519900124	0.799532472	-0.310983175	-0.224995	1.382178157	5.474358336	0.056505
10497048		0.435800234	0.124276197	0.001154748	0.018653282	0.258918712	0.59359486	0.311524037	0.280038216	1.112434015	3.506707185	0.0565217
10607841	Tceanc	0.422320594	0.098922802	0.001970655	0.027078568	0.382779553	0.704447493	0.323397792	0.260621698	1.240870558	4.269193602	0.0569624
10582190	Gins2	0.440238794	0.130301793	0.001058209	0.017580654	0.237190369	0.569376319	0.309937001	0.285270293	1.086467847	3.378608881	0.0573924
10355105	AF362573	0.682374658	0.360727138	2.91E-005	0.001270065	0.005672399	0.058356364	0.32164752	0.521550898	0.616713578	1.891664327	0.0574382
10428089	Nipal2	-0.565484394	-0.213873242	0.000386536	0.00851639	0.096620084	0.357303066	-0.351611152	-0.389678818	0.902310148	2.644016561	0.0576638
10420616	Sgcg	-0.560604246	-0.227825594	0.000263848	0.006379068	0.06553734	0.288340141	-0.332778652	-0.39421492	0.844155397	2.460672817	0.058179
10569069	Rps9	0.618158537	0.19249091	0.000959171	0.016464261	0.209569272	0.535672583	0.425667627	0.405324723	1.050189151	3.211364827	0.0595082
10461156	Shhg1	0.936082637	0.56073988	6.14E-006	0.000411501	0.000774269	0.014055116	0.375342757	0.748411258	0.501519388	1.66937054	0.0598416
10583441	Olfr872	-1.0726513	-0.662762454	3.96E-006	0.000300665	0.000426855	0.009191701	-0.409888847	-0.867706877	0.472381697	1.618455141	0.0614461
10542555	MGC7817	-0.407550569	-0.107701053	0.001708434	0.024416523	0.317714975	0.649085321	-0.299849516	-0.257625811	1.163895474	3.784090838	0.0615374
10510546	Eno1	0.737597666	0.372674015	5.98E-005	0.002210044	0.011557069	0.096659126	0.364923651	0.55513584	0.657359199	1.979203371	0.0629948
10540785	6720456B07Rik	0.423648617	0.07437905	0.004020502	0.044458324	0.551363844	0.816296569	0.349269567	0.249013834	1.4026111	5.695805696	0.063194
10412100	Map3k1	0.35063308	0.058680088	0.004422512	0.047122053	0.575324736	0.829999919	0.291952992	0.204656584	1.426550697	5.975333267	0.0642197
10568369	Cox6a2	-0.602960885	-0.306514315	6.01E-005	0.00221467	0.011191078	0.094677846	-0.29644657	-0.4547376	0.651906879	1.967154077	0.0645517
10608286		-0.469644568	-0.104275582	0.002822387	0.034963813	0.430074001	0.740355654	-0.365368987	-0.286960075	1.273239793	4.503878666	0.0646817
10403765	Vps41	0.606800163	0.235048398	0.000449018	0.009525114	0.094754778	0.353872494	0.371751765	0.420924281	0.883179665	2.581596676	0.0650092
10571114	Erlin2	0.474929203	0.164112489	0.00077459	0.01410305	0.156469545	0.464629835	0.310816714	0.319520846	0.972758797	2.893924803	0.0651264
10605612	Gm7197	-0.454221864	-0.109852227	0.002397514	0.031285913	0.380517323	0.70263758	-0.344369636	-0.282037045	1.221008523	4.134844369	0.0653351
10441811		0.522717908	0.137287836	0.001969043	0.027070909	0.329535359	0.659996379	0.385430073	0.330002872	1.167959752	3.807459745	0.0654821
10597648	Myd88	0.553010685	0.259605368	0.000131736	0.00385134	0.026116903	0.164507651	0.293405317	0.406308027	0.722125328	2.130197418	0.0662186
10502823	Dnajb4	-0.430456183	-0.077248586	0.004252285	0.046066063	0.546039995	0.813120299	-0.353207598	-0.253852385	1.391389719	5.572350356	0.0662753
10561552	Eif3k	0.461823578	0.132140922	0.001589721	0.023145183	0.27648685	0.612078008	0.329682656	0.29698225	1.110108956	3.494932301	0.0663141
10561306	Pld3	0.760228437	0.391943587	5.80E-005	0.002162348	0.010112582	0.088262019	0.36828485	0.576086012	0.639287957	1.939637391	0.0672075
10551282	LOC100047728	-0.489391786	-0.13857205	0.001748728	0.024799095	0.287169542	0.621821141	-0.350819736	-0.313981918	1.117324647	3.531677457	0.0683868
10474977	1500003C003Rik	0.7647258	0.319041546	0.000345501	0.007799758	0.066657596	0.291079817	0.445684254	0.541883673	0.822472195	2.396947387	0.0696361
10591118	Fat3	-1.131680364	-0.734656227	2.43E-006	0.000213242	0.000187193	0.005015534	-0.397024137	-0.933168296	0.425458236	1.540421659	0.0711226
10444306	H2-Eb2	0.480606159	0.1536249	0.001299816	0.020183706	0.215113947	0.542284894	0.326981259	0.31711553	1.031110837	3.1284392	0.0715753
10589327	Ucn2	-0.412858638	-0.123473235	0.001659398	0.023887048	0.258933268	0.59359486	-0.289385403	-0.268165937	1.079128119	3.343709568	0.0721978
10551393	Akt2	0.746890125	0.410056107	3.52E-005	0.001476842	0.005025997	0.053730649	0.336834017	0.578473116	0.582281195	1.821433973	0.0722465
10544436	Olfr458	-0.488671512	-0.147563913	0.001660219	0.023887048	0.254597873	0.589165002	-0.341107599	-0.318117713	1.072268488	3.311592253	0.0732623
10539873	Gata2	-0.495593604	-0.186676784	0.000687181	0.012828042	0.119867429	0.401973823	-0.30891682	-0.341135194	0.90555541	2.65482185	0.0733228
10427083	Eif4b	0.457105472	0.157423328	0.001076117	0.017759497	0.173842025	0.489757116	0.299682145	0.3072644	0.975323352	2.903670499	0.074781
10492689	Pdgfc	1.058623313	0.752042145	3.32E-007	4.99E-005	1.40E-005	0.000734193	0.306581167	0.905332729	0.338639218	1.407664875	0.0748133
10478983	2410001C21Rik	0.394735799	0.08843405	0.00371657	0.042099263	0.443933742	0.75079998	0.306301749	0.241584924	1.267884368	4.463617806	0.0751487
10413559	Rft1	0.441437078	0.153473387	0.001049508	0.017506811	0.16879947	0.483019574	0.287963691	0.297455233	0.968090855	2.876310255	0.0752468

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10421444	Npm2	-0.466482819	-0.157411014	0.001252382	0.019685327	0.190122868	0.510475237	-0.309071804	-0.311946917	0.990783329	2.963469999	0.0771226
10472155	Kcnj3	-0.544730505	-0.209459095	0.00070082	0.013015078	0.113815848	0.390630602	-0.335271409	-0.3770948	0.889090514	2.600653385	0.0772151
10556790	2610020H08Rik	0.466609705	0.135174918	0.002156878	0.028985256	0.289820227	0.624243147	0.331434787	0.300892311	1.101506336	3.45189561	0.0779573
10427665		-0.733284666	-0.369696185	0.000109075	0.003360928	0.016513589	0.12293237	-0.363588481	-0.551490426	0.659283397	1.983479126	0.0781021
10425092	Cyth4	0.84926299	0.54155058	4.65E-006	0.000339806	0.000370297	0.008272398	0.30771241	0.695406785	0.442492677	1.568206223	0.0781597
10382136	1810010H24Rik	-1.198622323	-0.842031267	5.32E-007	7.18E-005	2.40E-005	0.001082707	-0.356591057	-1.020326795	0.349487104	1.423489092	0.0785431
10365974	Dcn	-0.460925955	-0.106321138	0.003875168	0.0433165	0.43365374	0.742430854	-0.354604818	-0.283623547	1.25026579	4.335224068	0.07902
10473125	Itga4	0.734684705	0.397646615	5.54E-005	0.002078259	0.007358804	0.070558752	0.33703809	0.56616566	0.595299421	1.84758194	0.0798265
10446619	Myom1	-0.904606185	-0.627906006	7.81E-007	9.59E-005	3.78E-005	0.001508533	-0.276700179	-0.766256095	0.36110666	1.440671337	0.080157
10525657	Denr	0.398736649	0.119162367	0.002115212	0.028593681	0.274278782	0.61055662	0.279574282	0.258949508	1.079647861	3.346162549	0.0806986
10473109	Gm14461	0.786829807	0.44636062	3.24E-005	0.001378449	0.003830718	0.044572469	0.340469187	0.616595214	0.552176176	1.762767081	0.0808563
10596148	Trf	0.616411755	0.322242756	8.53E-005	0.002830995	0.011752295	0.097769455	0.294168999	0.469327256	0.626788655	1.912880099	0.0813152
10399924	Pik3cg	0.805401486	0.51776378	4.56E-006	0.000334608	0.000340311	0.007742274	0.287637706	0.661582633	0.434772153	1.555538484	0.0815684
10572146	Atp6v1b2	0.832796241	0.500213974	1.49E-005	0.000766541	0.00146596	0.022357849	0.332582267	0.666505108	0.498994326	1.66488	0.0816933
10520521	Cenpa	0.555106113	0.285334919	0.00010251	0.003200992	0.014373941	0.112040788	0.269771195	0.420220516	0.641975306	1.945454541	0.0816976
10418848	Wdfy4	0.654747698	0.3613103	4.76E-005	0.001855733	0.005923113	0.060021498	0.293437398	0.508028999	0.577599702	1.812147892	0.0819336
10550025	Gm6946	-0.531737043	-0.124013123	0.004139375	0.045475843	0.433130675	0.742212308	-0.407723919	-0.327875083	1.243534323	4.287748172	0.0825707
10594248	Rplp1	0.639243903	0.260587737	0.000607022	0.011830703	0.090392889	0.345643727	0.378656166	0.44991582	0.841615586	2.453085135	0.0827752
10438405	Igl-V1	0.846845651	0.52609862	9.22E-006	0.0005491	0.000787109	0.007407223	0.320747031	0.686472136	0.467239695	1.609670922	0.0836209
10583100	Mmp8	1.277877574	0.743520732	2.58E-005	0.001176606	0.002746218	0.03510454	0.534356842	1.010699153	0.528700198	1.718684522	0.0839167
10378802	Blimh	0.623903328	0.332027587	7.75E-005	0.002651215	0.010018605	0.087657063	0.291875741	0.477965458	0.610662835	1.879070755	0.0839951
10571696	Casp3	0.735555321	0.422073784	3.13E-005	0.001347481	0.003463886	0.041566637	0.313481538	0.578814553	0.541592357	1.742717387	0.0840777
10546113	Sec61a1	0.874884271	0.538729848	1.09E-005	0.000621531	0.000959998	0.01651799	0.336154423	0.706807059	0.475595735	1.623975865	0.0840918
10434747	Adipoq	-0.685762713	-0.336429922	0.00017533	0.004818382	0.02457141	0.158633975	-0.349332792	-0.511096317	0.683496984	2.038352326	0.0847784
10592084	St3gal4	0.977056769	0.687196961	6.99E-007	8.83E-005	0.001273293	0.289859807	0.832126865	0.348336077	1.421800188	0.0858351	0.0858351
10553301	Ldha	0.789826517	0.467806271	2.16E-005	0.001029451	0.002132723	0.029368419	0.322020246	0.628816394	0.512105359	1.688362395	0.0860674
10366593		0.43383356	0.109082589	0.003849251	0.043145224	0.394006283	0.714181431	0.324750971	0.271458074	1.196320913	3.977110971	0.0862241
10557069	Mettl9	0.465357359	0.140137943	0.002389532	0.031245297	0.278529719	0.614201102	0.325219416	0.302747651	1.074226058	3.320709214	0.0862462
10531869	Mapk10	-0.643596137	-0.335664734	0.000104767	0.003247773	0.013448831	0.107239697	-0.307931403	-0.489630436	0.628905763	1.917377882	0.0866539
10481585	2900010J23Rik	0.40831048	0.138692228	0.001594251	0.02318483	0.200658442	0.524277737	0.269618251	0.273501354	0.985802256	2.944004038	0.0866669
10574033	Nup93	0.712532739	0.434785562	1.42E-005	0.000750411	0.001259537	0.020162474	0.277747177	0.573659151	0.484167605	1.638814168	0.0872582
10567150	Dnahc3	-0.413973211	-0.124644633	0.002462909	0.031879957	0.280545069	0.615999215	-0.289328578	-0.269308922	1.074337144	3.321227728	0.0874186
10572757	Rab8a	0.581586774	0.247738757	0.000560674	0.01123449	0.075729082	0.312761719	0.333848017	0.414662765	0.805107293	2.347580897	0.0888706
10587262	Kihl31	-0.840988333	-0.418307856	0.000180046	0.004895578	0.023314706	0.153062977	-0.422680477	-0.629648094	0.671296365	2.010453118	0.0894
10532164	Atp5k	0.494874143	0.16770116	0.001737039	0.024701565	0.206532258	0.531715822	0.327172983	0.331287651	0.987579771	2.950928564	0.0895898
10488387	Napb	-0.376689717	-0.095744452	0.004137795	0.045475843	0.393992245	0.714181431	-0.280945265	-0.236217085	1.189352012	3.93432422	0.0903302
10462091	Klf9	-0.561086108	-0.284799512	0.000160442	0.004481202	0.019793504	0.137610956	-0.276286595	-0.42294281	0.653248119	1.970109088	0.0916393
10508436	Sync	-0.413686238	-0.12612453	0.002657417	0.033568201	0.279721852	0.615138837	-0.287561709	-0.269905384	1.06541672	3.27998241	0.0920497
10508151	Clsn1	0.977600924	0.686903076	9.79E-007	0.000109292	4.09E-005	0.001613553	0.290697848	0.832252	0.349290657	1.423200679	0.0937733
10469782	Gm13410	-0.42045366	-0.128151224	0.002782291	0.034617475	0.282848295	0.617736075	-0.292302436	-0.274302442	1.065620976	3.280918018	0.0939224
10466624	Aldh1a7	0.443007164	0.115407395	0.004425092	0.047129984	0.387314577	0.708353953	0.32759977	0.279207279	1.173321019	3.838637601	0.095796
10350594	Ivns1abp	0.506807663	0.183737541	0.001615376	0.023412461	0.174539255	0.490624398	0.323070121	0.345272602	0.935695793	2.75832396	0.0974411
10502778	Gm10287	-0.767946622	-0.442640067	4.76E-005	0.001855733	0.00446836	0.049373163	-0.325306555	-0.605293345	0.5374362	1.734923427	0.0980981
10374228	Gm11992	-0.438009288	-0.13699908	0.002864165	0.035327908	0.272881085	0.6090285	-0.301010208	-0.287504184	1.046976789	3.197169549	0.0986111
10360920	Tgfb2	-0.505703728	-0.232014004	0.000453656	0.009576028	0.052654542	0.254622604	-0.273689724	-0.368858866	0.741990363	2.17962588	0.0987536
10359504	Dnm3os	0.405125171	0.108912502	0.004383944	0.046840895	0.372115947	0.696832936	0.296212669	0.257018836	1.15249401	3.719730654	0.0987769
10565862	Pold3	0.789230803	0.477413044	2.48E-005	0.001146119	0.002021322	0.028228131	0.311817759	0.633321924	0.492352699	1.653140425	0.0992606
10346109	Dnahc7b	-0.469807798	-0.154270896	0.002488645	0.032133335	0.24187802	0.574544237	-0.315536902	-0.312039347	1.011208699	3.045343032	0.0995395
10375234	Nudcd2	0.540585047	0.18036338	0.002369246	0.031043285	0.231752074	0.562308007	0.360221667	0.360474213	0.999299404	2.99719958	0.0998457
10351037	Gas5	1.132956775	0.53446236	0.000381877	0.008435481	0.043426	0.226142945	0.598494415	0.833709568	1.17869193	2.11980648	0.0999554
10434396	Abcf3	0.410957205	0.111720053	0.004396735	0.046944841	0.367145564	0.692590211	0.299237151	0.261338629	1.145016917	3.678455143	0.10017
10567211	Gm9197	0.503109986	0.152040647	0.003308082	0.038986159	0.298287845	0.631624502	0.351069339	0.327575316	1.07172098	3.309049236	0.100286
10347218		1.532426017	0.547416185	0.001855418	0.025987734	0.188140145	0.507800342	0.985009832	1.039921101	0.947196697	2.799380176	0.100581
10457020		0.803670911	0.392252156	0.000300737	0.007020476	0.03332281	0.191752865	0.411418755	0.597961533	0.688035487	2.048862955	0.101105
10513320	Ptgr1	0.729129423	0.460293259	1.35E-005	0.000720963	0.000925463	0.016081915	0.268836164	0.594711341	0.452044791	1.584054098	0.102091
10351099	Tnfrsf18	-0.412029559	-0.125240512	0.003444126	0.04003797	0.298323713	0.631624502	-0.286789048	-0.268635035	1.067578721	3.289906389	0.102875

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10554063	Adamts17	-0.444258072	-0.174214156	0.001319374	0.02040102	0.134553736	0.427124079	-0.270043915	-0.309236114	0.87326125	2.550068726	0.103824
10483000	Itgb6	-0.372596988	-0.111578144	0.003739776	0.042268858	0.310862993	0.643538293	-0.261018844	-0.242087566	1.078200124	3.339336665	0.104643
10437236	B230307C23Rik	0.706072026	0.316954391	0.000625756	0.012070876	0.066012784	0.289544793	0.389117635	0.511513208	0.760718646	2.227677061	0.10508
10396645	Zbtb1	0.556554476	0.251700903	0.000638286	0.012182092	0.064826797	0.286349034	0.304853573	0.404127689	0.754349629	2.211173932	0.107772
10599054	Gm4907	-0.514433749	-0.19700344	0.001636908	0.023671075	0.153821008	0.460118591	-0.317430309	-0.355718595	0.892363553	2.611293228	0.10808
10392990	Grb2	0.387434052	0.120622105	0.003592758	0.041114094	0.290102957	0.624485299	0.266811947	0.254028078	1.050324627	3.211965599	0.108179
10373454	Pa2g4	0.851624237	0.552396241	9.98E-006	0.000584884	0.000588895	0.011538745	0.299227996	0.702010239	0.426244489	1.541690862	0.1082
10520965	Yes1	-0.582002258	-0.311916768	0.000153772	0.004327875	0.014538885	0.112570831	-0.27008549	-0.446959513	0.604272829	1.865889612	0.108307
10495306	Mybphl	-0.398856325	-0.143537529	0.002183276	0.029248602	0.194317928	0.515219671	-0.255318796	-0.271196927	0.941451656	2.778759867	0.108854
10376230	G3bp1	0.47671277	0.225599011	0.000474818	0.009924776	0.047592345	0.239516223	0.251113759	0.351155891	0.715106212	2.113097781	0.108876
10520304	Actr3b	0.438372751	0.134339682	0.003927602	0.04379396	0.303525509	0.637239717	0.304033069	0.286356216	1.061730292	3.263166516	0.110141
10472426	Xirp2	-0.730587834	-0.414020521	8.77E-005	0.002878035	0.007451083	0.07123069	-0.316567313	-0.572304177	0.553145207	1.764617444	0.110908
10440794	2610039C10Rik	0.464595183	0.171224816	0.002113222	0.028593681	0.182624904	0.501027792	0.293370367	0.317909999	0.922809498	2.713363599	0.111803
10375483	Gm12176	0.887113444	0.467334217	0.00020528	0.005333121	0.018824736	0.132818397	0.419779227	0.677223831	0.619853007	1.898242013	0.112326
10469243		-0.511002412	-0.178213185	0.002674028	0.033728228	0.219801775	0.548233599	-0.332789227	-0.344607799	0.965704281	2.867365907	0.112451
10591129	Fat3	-0.67403464	-0.352423506	0.000224443	0.005664342	0.020467452	0.140472531	-0.321611134	-0.513229073	0.62664247	1.912570042	0.112549
10348556	Ube2f	0.804238999	0.488069256	3.63E-005	0.001510611	0.002597881	0.033814609	0.316169743	0.646154127	0.489310103	1.647796884	0.112852
10504458	Ctla	0.727055221	0.460033435	1.84E-005	0.000902974	0.001156267	0.018823724	0.267021786	0.593544328	0.449876737	1.580439954	0.114226
10595664	Tmed3	0.723036387	0.388701513	0.000175734	0.004824315	0.015472634	0.116912446	0.334334873	0.55586895	0.60146348	1.860132677	0.114262
10432152	Olfir284	-0.401464454	-0.120401885	0.004556428	0.048109578	0.323948842	0.654328632	-0.281062569	-0.260933169	1.077143889	3.334370169	0.114356
10509992	Hspb7	-0.482558119	-0.223980213	0.000636123	0.0121796	0.058819193	0.271026422	-0.258577905	-0.353269166	0.731957188	2.154467626	0.114755
10409786	1700013B16Rik	-0.430340597	-0.128652223	0.004660402	0.048945895	0.327030372	0.657287259	-0.301688373	-0.27949641	1.079399815	3.344991525	0.115039
10485635	Elf3m	0.484601477	0.19514819	0.001546242	0.022705344	0.132545247	0.422735016	0.289453286	0.339874833	0.851646718	2.4282348633	0.116188
10605790	Gm371	-0.36979709	-0.129391598	0.002866327	0.035335936	0.222673917	0.551432137	-0.240405491	-0.249594344	0.963184853	2.85796833	0.116277
10351119	Vamp4	0.506923196	0.216429915	0.001143956	0.018562892	0.100175994	0.363755325	0.29049328	0.361676555	0.803185266	2.342204843	0.116862
10601424	Gpr174	0.582672395	0.272442971	0.000636851	0.0121796	0.057244579	0.266990059	0.310229423	0.427557683	0.725584958	2.138694906	0.116923
10543785	AB041803	-0.601538391	-0.349928272	7.48E-005	0.002579057	0.005700056	0.058501078	-0.251610118	-0.475733331	0.528888984	1.719033409	0.116972
10450731	H2-9	-0.460427628	-0.171741738	0.002274762	0.0302062	0.181873503	0.500088814	-0.28868589	-0.316084683	0.91331819	2.680930298	0.117488
10527559	Polr1d	0.506419449	0.226200962	0.000912557	0.015891126	0.079028941	0.321119971	0.280218487	0.366310205	0.764975922	2.22803252	0.118945
10421293	Ppp3cc	0.410724071	0.168025796	0.001534031	0.022591695	0.126648944	0.412541257	0.242698275	0.289374933	0.838698336	2.444410806	0.119433
10427683	Spef2	-0.866958238	-0.477029967	0.000158713	0.004442569	0.012830587	0.103956919	-0.38992827	-0.671994103	0.580255494	1.817408332	0.119712
10450920	AY036118	0.689624199	0.354257831	0.00032155	0.007375829	0.027330603	0.169163714	0.335366369	0.521941015	0.642536914	1.946673129	0.120149
10534654	Znhit1	0.359763572	0.112069202	0.004645597	0.04891025	0.307667392	0.640539104	0.24769437	0.235916387	1.049924395	3.210191252	0.120916
10538126	Gimap4	0.426561041	0.136189281	0.00431364	0.046357859	0.29105553	0.625277315	0.29037176	0.281375161	1.031973679	3.13211905	0.12095
10427691	Spef2	-0.870190561	-0.50919369	7.77E-005	0.00265664	0.00563575	0.058025842	-0.360996871	-0.689692126	0.523417417	1.708957864	0.121113
10430265	Elf3d	0.604606643	0.354290901	7.79E-005	0.002660249	0.005594871	0.057743925	0.250315742	0.479448772	0.522090693	1.706526024	0.121891
10515352	Akr1a4	0.612832254	0.338607624	0.000160706	0.004483686	0.012633521	0.102847198	0.274224629	0.475719939	0.576444132	1.809859583	0.121907
10440977	Atp5o	0.637165376	0.369329203	9.13E-005	0.002944388	0.006657368	0.065371585	0.267836173	0.50324729	0.532215828	1.725196304	0.122411
10549899	Zfp418	-0.465324549	-0.200068918	0.001259505	0.019732119	0.101845323	0.367209687	-0.265255631	-0.332696734	0.797289555	2.325821288	0.122831
10452213	Gtf2f1	0.442191055	0.169423017	0.002270779	0.030184548	0.17097477	0.485957132	0.272768039	0.305807036	0.891961291	2.609982166	0.122908
10447006	Vit	-0.439971052	-0.187954789	0.001311845	0.020309075	0.105504789	0.375140924	-0.252016263	-0.31396292	0.802694354	2.340834492	0.122995
10376216	Slc36a1	0.574417962	0.305349259	0.000250748	0.006200573	0.020156931	0.139232538	0.269068703	0.439883611	0.611681583	1.881183417	0.123222
10368052	Ect2l	-0.520333018	-0.234324721	0.000959014	0.016464261	0.078521837	0.319883094	-0.286008298	-0.377328869	0.757981487	2.220563912	0.123323
10484425	2700094K13Rik	0.538635633	0.263311737	0.000547233	0.011029904	0.044698765	0.230156047	0.275323895	0.400973685	0.686638315	2.045619531	0.124502
10390691	Nr1d1	-0.999040848	-0.699631539	3.15E-006	0.000253525	0.0001162	0.003496634	-0.299409309	-0.849336193	0.352521548	1.427952848	0.125102
10408543	Mylk4	-0.599216807	-0.293552912	0.000545897	0.011015785	0.044256	0.228978633	-0.305663895	-0.446384859	0.684754173	2.04125656	0.125105
10546163	Mcm2	0.38390462	0.136876806	0.003211928	0.038133099	0.221618788	0.550266037	0.247027814	0.260390713	0.948681351	2.804745598	0.12529
10482177	Strbp	-0.520896682	-0.263629688	0.000424349	0.009107173	0.03389231	0.193838638	-0.257266993	-0.392263185	0.655853017	1.975865029	0.125903
10588903	Usp4	0.375042818	0.123472666	0.00433512	0.046480307	0.277273069	0.612810346	0.251570151	0.249257742	1.009277182	3.037456218	0.126247
10460237	Unc93b1	0.593284727	0.35284323	7.45E-005	0.002572227	0.004930861	0.052956205	0.240441498	0.473063978	0.508264228	1.681440021	0.127581
10403073	Ighg	0.934655136	0.569913876	5.33E-005	0.002018729	0.003308301	0.040264329	0.364741261	0.752284506	0.48484484	1.639993649	0.128655
10570666	LOC637882	0.771841052	0.465247925	6.39E-005	0.00230805	0.004062823	0.046143603	0.306593127	0.618544488	0.495668675	1.658988704	0.129025
10438784	Gm606	-0.716971843	-0.424354289	8.80E-005	0.002845624	0.005610124	0.057831592	-0.292617554	-0.570663066	0.512767641	1.689595955	0.130447
10469070	Nudt5	0.405892536	0.138532893	0.004117809	0.045690669	0.258304403	0.593294727	0.267359643	0.272212715	0.982171765	2.929936176	0.130649
10389858	Nme2	0.66112599	0.347959646	0.000334187	0.007592677	0.024880578	0.159898518	0.313166344	0.504542818	0.620693294	1.90000765	0.13075
10357472	Cxcr4	0.570510403	0.304179795	0.000300533	0.007020476	0.022012168	0.147596122	0.266330608	0.437345099	0.608971287	1.875569687	0.131581



Suppl Table 1

10395875		-0.647532759	-0.382068098	9.39E-005	0.003000772	0.006067492	0.061137899	-0.265464661	-0.514800429	0.51566519	1.694809805	0.132131
10466839	Gm5516	0.578598242	0.266230988	0.001025274	0.017255708	0.075115205	0.311627038	0.312367255	0.422414615	0.739480225	2.173294129	0.132541
10406676	Lh1pl2	0.763095541	0.478743274	3.79E-005	0.001560205	0.002115169	0.029142328	0.284352267	0.620919407	0.457953582	1.593955638	0.132661
10482017	Rab14	0.399655963	0.15371867	0.002734812	0.034211912	0.179911558	0.497929241	0.245937294	0.276687316	0.888863634	2.599918176	0.132836
10414548	Rnase6	0.471614049	0.218401042	0.001000126	0.016922378	0.072671697	0.305192591	0.252313007	0.345007545	0.733934694	2.159394685	0.133373
10545401	Vamp5	-0.554616654	-0.278167245	0.000552022	0.011101381	0.040356438	0.216276532	-0.276449409	-0.416391949	0.663916317	1.993824451	0.133671
10548879	Mgp	0.993112453	0.658626618	1.42E-005	0.000750411	0.000649239	0.01235334	0.334485835	0.825869535	0.405010502	1.507853503	0.134021
10553477	Ano5	-0.406214063	-0.147317644	0.003569491	0.040926918	0.220913498	0.549298427	-0.25889642	-0.276765854	0.935434831	2.757402663	0.134044
10527801	Brca2	0.700130527	0.422434272	7.39E-005	0.002559755	0.004461458	0.049360654	0.277696255	0.5612824	0.494753185	1.657371509	0.13488
10532896	2610524H06Rik	0.441350039	0.168104824	0.003038016	0.036730948	0.190083162	0.510475237	0.273245215	0.304727431	0.896687293	2.625445418	0.136038
10385770	Olfr1372-ps1	-0.727953506	-0.449484186	5.46E-005	0.00205422	0.003084344	0.038297344	-0.27846932	-0.588718846	0.473009012	1.61953085	0.136579
10362701	Ddo	-0.508869099	-0.24242974	0.000887796	0.015629599	0.062228214	0.279341342	-0.266439358	-0.37564942	0.70927664	2.099037428	0.136974
10446907	Ttc27	0.57751402	0.299046921	0.000452301	0.009555287	0.031646027	0.161759366	0.278467099	0.43828047	0.635362783	1.931181965	0.137036
10380477	Ppp1r9b	0.611073323	0.219753531	0.003922228	0.043772069	0.230710568	0.561120411	0.391319791	0.415413427	0.942000826	2.780721289	0.137336
10436708	Usp16	0.453442707	0.214295144	0.000959581	0.016464261	0.066395819	0.290689079	0.239147562	0.333868926	0.716291766	2.115972847	0.137894
10458398	Hars	0.504325812	0.267519291	0.000371621	0.008237268	0.02542221	0.161759366	0.236806521	0.385922552	0.613611514	1.885194187	0.138284
10587829	Plod2	-0.514052044	-0.286350961	0.000230546	0.005818738	0.015043163	0.115065601	-0.227701083	-0.400201503	0.568966086	1.795181834	0.1396
10449315	2900010M23Rik	0.517043004	0.24658419	0.000937967	0.016201712	0.063579835	0.283042896	0.270458814	0.381813597	0.708353018	2.096821368	0.13983
10362794	Ppil6	-1.268986076	-0.721273709	0.000185879	0.004990734	0.011798828	0.098042189	-0.547712367	-0.995129892	0.550392839	1.759368267	0.14028
10400710	Gm71	0.523709289	0.226753065	0.001766131	0.024976882	0.113869115	0.390747651	0.296956224	0.375231177	0.79139539	2.309601807	0.140515
10419223	Fermt2	-0.674575545	-0.417999668	6.19E-005	0.002258762	0.003292689	0.040169558	-0.256575877	-0.546287607	0.469671788	1.613818375	0.143396
10582008	2310061C15Rik	0.664551216	0.432534937	2.81E-005	0.001233388	0.001281517	0.020393039	0.23201628	0.548543077	0.422968203	1.536410495	0.145291
10433212	Olfr15	-0.485455427	-0.197700763	0.002685501	0.03382828	0.156337724	0.464629835	-0.287754664	-0.341578095	0.842427158	2.455506084	0.145491
10376208	Gm2a	0.587996301	0.346421187	0.000136189	0.003936611	0.007839355	0.073952804	0.241575114	0.467208744	0.517060343	1.697345089	0.145857
10376196	Hint1	0.519950175	0.279916716	0.00388694	0.008549264	0.024284657	0.157368994	0.240033459	0.399933446	0.600183511	1.857517418	0.146438
10602592	Hsd17b10	0.453075144	0.20450534	0.00158806	0.023056834	0.096145621	0.356473464	0.248569804	0.328790242	0.756013324	2.215468522	0.147174
10583034	Dcun1d5	0.466433319	0.233999217	0.000748557	0.013685156	0.046989323	0.237425578	0.232434102	0.350216268	0.663687337	1.993311454	0.147312
10553131	Kdelr1	0.487207809	0.223016757	0.001469982	0.022035168	0.089243503	0.342714277	0.264191052	0.355112283	0.743964839	2.184624224	0.147959
10437376	Srl	-0.577096925	-0.327794857	0.000227816	0.005783946	0.013436222	0.107205762	-0.249302068	-0.452445891	0.551009685	1.760542951	0.148347
10546010	Arhgap25	0.799869679	0.53975003	1.54E-005	0.000782623	0.00060018	0.011653428	0.260119648	0.669809854	0.388348494	1.481926139	0.149708
10373873	Sf3a1	0.459468716	0.235194568	0.000694182	0.012921149	0.041642064	0.220656695	0.224274148	0.347331642	0.645706067	1.953568574	0.15159
10365578	Nup37	0.409618876	0.15895376	0.003750208	0.042330849	0.195116123	0.516708898	0.250665117	0.284286318	0.881734719	2.576968781	0.151654
10557177	Prkcb	0.518421839	0.292684011	0.000270013	0.006495503	0.015407921	0.116698296	0.225737828	0.405552925	0.556617433	1.771268056	0.152601
10521984	G6pd2	0.455839444	0.220511811	0.001160969	0.018724005	0.066638428	0.291063823	0.235327633	0.338175628	0.69587402	2.06718834	0.15488
10514275	Ptplad2	0.681403036	0.367265988	0.000469232	0.009832046	0.026843971	0.167578403	0.314137048	0.524334512	0.599115719	1.855339341	0.155321
10501802	Tmem56	0.727268361	0.4983332	1.31E-005	0.000707468	0.000463299	0.009739519	0.228935161	0.612800781	0.373588233	1.459401784	0.156084
10411611	Naip5	0.735990102	0.351336894	0.00131159	0.020309075	0.073830817	0.308244862	0.384653208	0.543663498	0.707520753	2.094827256	0.156234
10538715	C130092O11Rik	-0.41557209	-0.191588383	0.001670205	0.024003813	0.092090119	0.348638522	-0.223983707	-0.303580237	0.737807274	2.169088141	0.156687
10404051	Hist1h4d	0.593826232	0.334155497	0.00031395	0.00724683	0.017172198	0.125935995	0.259670735	0.463990864	0.559646225	1.777095508	0.157567
10431738	Prickle1	-0.50123337	-0.256252854	0.000802588	0.014456727	0.045077205	0.231124386	-0.244980516	-0.378743112	0.646825008	1.95601088	0.157931
10447383	Epcam	0.406159546	0.191340803	0.001486721	0.022199629	0.081646408	0.326534745	0.214818742	0.298750175	0.719058132	2.122702209	0.157981
10465625	Otub1	0.497906832	0.233212067	0.001562227	0.022859182	0.085038215	0.33401085	0.264694766	0.365559449	0.724081312	2.134996012	0.158542
10503196	Chd7	0.645643397	0.339912257	0.000631501	0.012141846	0.035135424	0.198909587	0.305731141	0.492777827	0.620423899	1.899441354	0.158751
10532576	Myo18b	-0.370752066	-0.140690889	0.004729511	0.049519299	0.219541091	0.547892807	-0.230061177	-0.255721478	0.899655277	2.635224414	0.159665
10346374	Aox1	-0.709358736	-0.481591177	1.79E-005	0.000880997	0.000644754	0.012295352	-0.227767559	-0.595474956	0.382497293	1.472947947	0.160204
10583444	Olfr39	-0.566991545	-0.264516647	0.001659974	0.023887048	0.088435501	0.341021194	-0.302474898	-0.415754096	0.727533176	2.143500424	0.160323
10605252	Tex28	-0.52197923	-0.218150971	0.003116126	0.037254179	0.154571463	0.461556575	-0.303828259	-0.370065101	0.821013	2.392743094	0.160449
10427679	Spef2	-0.615877404	-0.314426701	0.000865456	0.015341526	0.047096581	0.237840617	-0.301450703	-0.465152052	0.648069166	1.958731245	0.161008
10591853	Tbx20	-0.581216759	-0.344143513	0.000183763	0.004959869	0.009258035	0.082694726	-0.237073246	-0.462680136	0.512391233	1.688879018	0.161081
10396030	Fancm	0.434366274	0.215771071	0.001080944	0.017819956	0.058454365	0.26998117	0.218595203	0.325068673	0.672458535	2.01308856	0.161116
10404913	Cap2	-0.711527286	-0.476378162	2.49E-005	0.001146168	0.000936617	0.016222063	-0.235194623	-0.593975474	0.395966894	1.493714116	0.161512
10440522	Adamts1	-0.548401401	-0.304767692	0.000393206	0.008611621	0.020914598	0.142502537	-0.243633708	-0.426584546	0.571126429	1.799407925	0.161548
10435305	Itgb5	0.382479379	0.15063111	0.004234107	0.046002788	0.196511713	0.517820458	0.231848268	0.266555244	0.869794435	2.539179175	0.162234
10594911	Tex9	0.709736501	0.451936982	6.52E-005	0.002333912	0.002829505	0.035901002	0.257799519	0.580836742	0.443841618	1.570432448	0.162916
10345675	Npas2	-0.393819359	-0.158014542	0.00399084	0.044230085	0.185102741	0.504054439	-0.235804817	-0.27591695	0.854622438	2.492298202	0.163572
10595046	Gm3671	0.66167191	0.431811985	4.49E-005	0.001782801	0.001795452	0.025934525	0.229859924	0.546741948	0.420417576	1.532314832	0.165283

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10461844	Gnaq	-0.423849238	-0.192491703	0.002157972	0.028985256	0.107276701	0.378702063	-0.231357535	-0.30817047	0.750745309	2.201909129	0.165284
10555108	Clns1a	0.475412235	0.246445177	0.000831199	0.014857389	0.043353299	0.225849781	0.228967058	0.360928706	0.634383062	1.929079077	0.165342
10538150	Tmem176a	0.908426204	0.619043635	1.90E-005	0.000920581	0.000654298	0.012422314	0.289382569	0.763734919	0.378904462	1.467467159	0.165483
105685609	Thrsp	-0.60755972	-0.365299706	0.000168058	0.00464839	0.007967446	0.014692623	-0.242260014	-0.486429713	0.49803704	1.663181521	0.166084
10481272	1700007K13Rik	-0.558812034	-0.247867805	0.002521018	0.032388126	0.122166924	0.405506349	-0.310944229	-0.40333992	0.770923517	2.254476068	0.166242
10530045	Sepsecs	0.370416768	0.147309842	0.004437652	0.047244152	0.195396273	0.51710477	0.223106927	0.258863305	0.861871584	2.514541894	0.167513
10468893	Csf2ra	0.531918431	0.296908148	0.000437417	0.009317533	0.021778668	0.146569178	0.235010283	0.41441329	0.56709157	1.791525206	0.168624
10599960		-0.504546891	-0.207710403	0.003873465	0.0433165	0.172898581	0.488331952	-0.296836488	-0.356128647	0.833509156	2.429088209	0.168739
10567456	Dnahc3	-0.723056955	-0.311258097	0.003127907	0.03732548	0.143689321	0.442869534	-0.411798858	-0.517157526	0.796273548	2.323014122	0.169196
10502230		0.53093379	0.226196411	0.003321316	0.039106209	0.150796403	0.454778443	0.304737379	0.3785651	0.804980118	2.347224645	0.169566
10574027	Mt1	0.480504095	0.263559269	0.000547456	0.011029904	0.026960768	0.167723944	0.216944826	0.372031682	0.583135353	1.823134876	0.170639
10597461	Cmtm7	0.627477322	0.386585965	0.000133505	0.003880938	0.005864381	0.059591027	0.240891357	0.507031643	0.475101229	1.623124943	0.171125
10598236	Nudt11	-0.769728684	-0.406756225	0.000816346	0.014661895	0.039628202	0.13856852	-0.362972459	-0.588242455	0.617045669	1.892358706	0.172807
10436727	ORF63	0.599562153	0.352063856	0.000266853	0.006431525	0.012342676	0.101153196	0.247498297	0.475813004	0.520158748	1.702992632	0.172865
10567458	Dnahc3	-0.517490139	-0.301399161	0.000292545	0.006952618	0.013767131	0.109086074	-0.216090978	-0.40944465	0.527766032	1.716959456	0.17288
10355998	Fam124b	-0.533523349	-0.23068458	0.003272443	0.038619338	0.144475288	0.444065583	-0.302838769	-0.382103965	0.792555944	2.312782883	0.173133
10447880	Mrp18	0.73219699	0.499263125	2.30E-005	0.001079838	0.000760485	0.013893322	0.232933865	0.615730057	0.378305172	1.466555317	0.173551
10558248	Bub3	0.46133394	0.21981254	0.001859922	0.026016603	0.086803957	0.337368221	0.2415214	0.34057324	0.709161413	2.098760789	0.173772
10465861	Incenp	0.650180214	0.421019958	6.42E-005	0.002313719	0.002484117	0.032867167	0.229160255	0.535600086	0.427857018	1.544297844	0.174171
10347232	Xrcc5	0.492772931	0.280811472	0.000393041	0.008611621	0.01841286	0.131028914	0.211961458	0.386792201	0.547998272	1.754817659	0.174279
10411272		-0.354550015	-0.146429202	0.004190213	0.045776058	0.176322235	0.49263515	-0.208120812	-0.250489609	0.830856073	2.421306741	0.174312
10545217	LOC100046973	1.645711747	1.159152801	1.12E-005	0.000630449	0.000321909	0.007470847	0.486558946	1.402432274	0.346939353	1.419753932	0.174776
10393642	Eif4a3	0.41183419	0.182090762	0.003053944	0.036829346	0.132763283	0.423114967	0.229743428	0.296962476	0.773644642	2.261697333	0.176085
10452450	E130009J12Rik	-0.428884965	-0.203200672	0.002061549	0.028042304	0.092450592	0.349281984	-0.225684292	-0.316042819	0.714094038	2.110647371	0.177362
10401114	Rab15	0.47864023	0.257515881	0.000776495	0.014095522	0.035711838	0.201108261	0.221124349	0.368078056	0.600753959	1.858682378	0.178552
10478847	1500012F01Rik	0.399253237	0.183211506	0.002601062	0.033084266	0.112322387	0.388347392	0.216041731	0.291232372	0.741819084	2.179193032	0.179149
10527487	Cyp3a57	-0.379090775	-0.155051927	0.004772423	0.049884946	0.188327741	0.507967396	-0.224038848	-0.267071351	0.838872634	2.44492785	0.179534
10481540	Fnbp1	0.459406816	0.221893525	0.001897714	0.026387069	0.083774563	0.31226969	0.237513291	0.340650171	0.697235203	2.070393067	0.179932
10586454	D300028M11Rik	0.438139455	0.184650651	0.004230335	0.046002788	0.168815981	0.483019574	0.253488803	0.311395053	0.681404248	2.372802108	0.180739
10521815		-0.420541521	-0.190146405	0.003015855	0.036564388	0.124323189	0.408479881	-0.230395117	-0.305343963	0.754542891	2.21167222	0.182686
10487252	Gabpb1	0.419668663	0.216365774	0.001228402	0.019463341	0.05402859	0.258912122	0.20330289	0.318017218	0.639282649	1.939625923	0.182911
10354003	Mgat4a	0.969957001	0.690013509	1.08E-005	0.000619497	0.000286185	0.006843021	0.279943492	0.829985255	0.337287308	1.405707263	0.18309
10468762	4930506M07Rik	0.453357144	0.229922338	0.001424688	0.021511118	0.06183738	0.278414643	0.223434806	0.341639741	0.654007071	1.971783813	0.183798
10390640	Ikzf3	0.769328231	0.522491417	3.29E-005	0.001393647	0.001042728	0.017493298	0.246836814	0.645909824	0.382153677	1.472422716	0.184559
10493995	S100a10	0.514099445	0.262443403	0.001384443	0.021052067	0.059515463	0.273228367	0.251656043	0.388271424	0.64814464	1.958896431	0.185037
10485982	Actc1	-1.180550057	-0.816632739	2.23E-005	0.001053846	0.000660623	0.012486647	-0.363917317	-0.998591398	0.364430655	1.445631555	0.185126
10476945	Cst7	0.702224536	0.436770099	0.000159159	0.0044502	0.00623369	0.062341176	0.265454437	0.569497317	0.46612061	1.607766964	0.185126
10446253	Vav1	0.78550248	0.554527174	1.39E-005	0.000741295	0.000378224	0.008414835	0.230975307	0.670014827	0.344731635	1.416526579	0.185506
10559818		0.683292948	0.320925483	0.002557042	0.032718925	0.104139031	0.371978936	0.362367465	0.502109216	0.721690528	2.129132723	0.18639
10368644	Fam26f	0.672017103	0.465982672	2.20E-005	0.001044354	0.000639264	0.012217888	0.206034431	0.568999887	0.362099247	1.442150413	0.1867
10360120	Ufc1	0.555380489	0.292809428	0.001107488	0.018112728	0.046928266	0.237257185	0.262571062	0.424094958	0.619132711	1.896730217	0.187421
10464529	Tcigr1	0.419788033	0.201289017	0.002313365	0.030560702	0.093604831	0.351572843	0.218499016	0.310538525	0.703613233	2.085498944	0.188322
10549588	Rps9	0.805677955	0.548100008	3.48E-005	0.001465408	0.001076194	0.017925856	0.257577947	0.676888982	0.380532043	1.469946986	0.188382
10346255	Omrld1	0.493228666	0.214037464	0.004214565	0.045936079	0.157194527	0.465060987	0.279191202	0.353633065	0.789494053	2.304403427	0.189477
10545255	Rpia	0.379364897	0.166515183	0.004046492	0.044692499	0.150536436	0.454477681	0.212849715	0.27294004	0.779840564	2.278260103	0.19061
10602223	Alg13	0.401838644	0.179562217	0.003721189	0.04212851	0.139312043	0.436293499	0.222276427	0.29070043	0.76462366	2.237879721	0.19134
10381708	Fmnl1	0.445916927	0.228999885	0.001506294	0.022310191	0.060667618	0.275662315	0.216917042	0.337458406	0.642796381	1.947236469	0.192223
10567737		-0.523382722	-0.234497887	0.003746697	0.023309822	0.138712479	0.435212311	-0.288884835	-0.378940304	0.762349192	2.231929374	0.192657
10464045	Acsf5	0.398081185	0.177414741	0.003883833	0.043381294	0.142591138	0.441499316	0.220666444	0.287747963	0.766874043	2.243788663	0.193094
10373692	Vmn2r86	-0.653166626	-0.339164465	0.001409006	0.021337083	0.05630357	0.264696101	-0.314002161	-0.496165545	0.63285765	1.925810908	0.193471
10417841	Ttc18	-0.38486527	-0.174781453	0.003539274	0.040668933	0.1308833	0.420044079	-0.210083817	-0.279823361	0.750772973	2.201980036	0.193786
10600597	Tmem47	-0.486056541	-0.271967356	0.000713733	0.013217959	0.02856292	0.174212816	-0.214089185	-0.379011949	0.564861309	1.787187068	0.193883
10504926	Rnf20	0.462090497	0.215214665	0.003216669	0.03816689	0.117446773	0.397970136	0.246875832	0.338652581	0.72899439	2.147114356	0.196943
10404898	Gm1574	-0.503049481	-0.292966622	0.000490494	0.010161427	0.018836614	0.132865681	-0.210083261	-0.39800785	0.527836978	1.71709039	0.197152
10458589	Prelid2	0.622083929	0.361366083	0.000507198	0.010398364	0.019475868	0.136140135	0.260717846	0.491725006	0.530210672	1.721478462	0.197341
10595189	Slc17a5	0.440319486	0.238882059	0.001034886	0.017371137	0.040238297	0.215893942	0.201437427	0.339600773	0.593159507	1.843250547	0.197499

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10367611	Gm221	-0.502254165	-0.262821418	0.00142584	0.021514795	0.054996702	0.261318473	-0.239432746	-0.382537792	0.625906124	1.911009262	0.197642
10405927	Zfp455	-0.549479511	-0.317610744	0.000563895	0.011246347	0.021286295	0.144238813	-0.231868767	-0.433545128	0.534820374	1.730040692	0.199819
10562360	Gpi1	0.572574615	0.328160783	0.000637261	0.0121796	0.023868974	0.155263261	0.244413832	0.450367699	0.542698404	1.744799026	0.201218
10399943	1110049B09Rik	-0.511963199	-0.253788615	0.002330574	0.030740587	0.084404086	0.33263749	-0.258174585	-0.382875907	0.674303554	2.017281981	0.201988
10450957	Cenpq	0.888510453	0.568707491	0.000147758	0.004195419	0.004927085	0.052942899	0.319802962	0.728608972	0.438922624	1.562332951	0.202177
10462132	Pgm5	-0.45016931	-0.232219476	0.001762325	0.024939089	0.064456254	0.28520309	-0.217949833	-0.341194393	0.638784921	1.93855105	0.203028
10507309	RP23-233B9.8	-0.472223911	-0.240707057	0.001964746	0.02703783	0.070894479	0.301283689	-0.231516854	-0.356465484	0.649479021	1.961819966	0.203958
10450374	D17H6S56E-5	0.888657839	0.628547078	2.21E-005	0.001044354	0.000544231	0.010900098	0.260110761	0.758602459	0.342881516	1.413828606	0.206276
10544523	Rny1	1.194950563	0.66549745	0.000987043	0.016789544	0.035025047	0.198591319	0.529453113	0.930224007	0.569167329	1.795574969	0.208509
10362420	Trdn	-0.494841314	-0.277015879	0.000941094	0.016225242	0.033333383	0.191752865	-0.217825435	-0.385928597	0.564419007	1.786328336	0.208719
10473272	Zc3h15	0.460448726	0.270131398	0.000578772	0.01147176	0.020074053	0.138869717	0.190317328	0.365290062	0.521003302	1.704536125	0.209963
10357008	Pign	0.591171461	0.401414283	6.04E-005	0.002219692	0.001677587	0.024718884	0.189757178	0.496292872	0.382349191	1.47272154	0.210392
10528929	Hadha	0.427432237	0.228665864	0.001488298	0.022210112	0.051605319	0.251411339	0.198766373	0.32804905	0.605904431	1.869243751	0.210593
10495935	4930422G04Rik	0.636991868	0.410633617	0.000157713	0.004421684	0.004927559	0.052942899	0.226358251	0.523812742	0.432135824	1.551241404	0.210676
10427235	Prr13	0.581856993	0.381204806	0.000119965	0.003605679	0.003631267	0.042853963	0.200652187	0.4815309	0.416696388	1.526363212	0.210784
10606473	Hdx	-0.560174509	-0.279911558	0.002623948	0.033325831	0.086819336	0.337368221	-0.280262951	-0.420043033	0.667224376	2.001255373	0.212459
10581940	Kars	0.425583792	0.209299912	0.002931295	0.03589682	0.096005612	0.356211628	0.21628388	0.317441852	0.681333851	2.033368229	0.212505
10508452		-0.376131372	-0.179761003	0.00354021	0.040668933	0.113536011	0.390544403	-0.196370368	-0.277946188	0.706504989	2.092396929	0.212692
10583254	Cwc15	0.61394816	0.410434923	8.80E-005	0.002881691	0.00250687	0.033082946	0.203513238	0.512191541	0.397338146	1.495847762	0.213552
10552125	Peptd	0.497578246	0.248510932	0.002717054	0.034086683	0.088355159	0.341021194	0.249067314	0.373044589	0.667660974	2.002238861	0.214375
10349733	Nucks1	0.493507283	0.282005506	0.000860051	0.015256251	0.028846566	0.175393348	0.211501777	0.387756394	0.545450134	1.74999166	0.215355
10569057	Rnh1	0.502191629	0.298692791	0.000562662	0.011236534	0.018397033	0.130952593	0.203498838	0.40044221	0.508185283	1.681298123	0.217032
10586604	Rps27l	0.401141021	0.20975258	0.002019784	0.027576496	0.065625703	0.288389067	0.191388441	0.305446801	0.626585187	1.912448564	0.217251
10590983	Panx1	0.485719796	0.296330875	0.000411836	0.008905652	0.0131866	0.105758244	0.189388921	0.391025336	0.484339258	1.639113021	0.21762
10424105	Colec10	-0.409795724	-0.201151225	0.003375302	0.039560392	0.102791812	0.369084203	-0.208644499	-0.305473475	0.683020021	2.037251944	0.220531
10546624	Lmod3	-0.414937392	-0.22163616	0.001793623	0.025275451	0.057146534	0.266891781	-0.193301231	-0.318286776	0.607317821	1.872155658	0.220604
10354916	4930408G06Rik	-0.427778173	-0.20476828	0.004061042	0.044795367	0.119765924	0.401797378	-0.223009894	-0.316273226	0.705117839	2.08908418	0.222134
10465980	Sdhaf2	0.396092804	0.186345369	0.004547721	0.048057186	0.131635307	0.42136382	0.209747435	0.291219086	0.720239315	2.125584374	0.222754
10396606	Syne6	-0.580737677	-0.37761294	0.000178295	0.004868599	0.005086372	0.054150554	-0.203124737	-0.479175309	0.423904849	1.537917839	0.223389
10409190	Cenpp	0.496329345	0.295958944	0.000616733	0.011968679	0.019220822	0.134724207	0.200370401	0.396144145	0.505801749	1.677020935	0.223497
10459335	Fam38b	-0.552767212	-0.335097272	0.00051664	0.010525455	0.01578511	0.118763523	-0.217669941	-0.443932242	0.490322441	1.649572405	0.225037
10546066	Isy1	0.563417417	0.303932704	0.001825549	0.025647621	0.055542129	0.262454965	0.259484713	0.43367506	0.598339026	1.853757132	0.226647
10453825	Snrpd1	0.471824769	0.287168554	0.000514983	0.010519662	0.015422761	0.116725683	0.184656214	0.379496662	0.48658192	1.643023797	0.227567
10535508	AU022870	0.376377777	0.181332775	0.004250719	0.046066063	0.119895064	0.401973823	0.195045002	0.278855276	0.699448851	2.075619136	0.227747
10558325	Bccip	0.556586413	0.344620757	0.000417903	0.009009147	0.012265543	0.100649601	0.211965656	0.450603585	0.470403839	1.615069324	0.228663
10449280	Gm5226	-0.49826467	-0.294298544	0.000764709	0.013930846	0.022991823	0.151897002	-0.203966125	-0.396281607	0.514699955	1.69305856	0.228976
10589420	Cdc25a	0.488399237	0.304878406	0.000382977	0.008445232	0.011057073	0.093760472	0.183520832	0.396638821	0.462690039	1.601947623	0.230058
10422013	Klf12	-0.648365133	-0.398241277	0.000483717	0.010061629	0.014102378	0.11083277	-0.250123856	-0.523303205	0.47797119	1.628071147	0.230606
10392120	Smarcd2	0.362098335	0.176153391	0.004235024	0.046002788	0.116464496	0.395581669	0.185944944	0.269125863	0.690921869	2.05558538	0.231509
10384522	Actr2	0.511864333	0.296014835	0.001025877	0.017255708	0.030245062	0.180836303	0.215849497	0.403939584	0.534360845	1.729184729	0.232155
10521757		0.639701016	0.413831738	0.000232141	0.005847538	0.006338598	0.063037247	0.225869278	0.526766377	0.428784538	1.545799795	0.232183
10523802	Cdc7	0.549813632	0.333175973	0.00060404	0.011821953	0.017463569	0.126804777	0.216637659	0.441494802	0.490691301	1.650219934	0.233058
10529142	Ppm1g	0.381567557	0.183970744	0.004590204	0.048386595	0.123591351	0.40770374	0.197596813	0.28276915	0.698791976	2.074066504	0.233179
10389842	Utp18	0.729598617	0.4845966	0.000515715	0.004284074	0.003932491	0.045304839	0.245002017	0.607097609	0.40356281	1.505579314	0.233493
10352354	A4301110L20Rik	-0.40451538	-0.21956094	0.001946692	0.026849919	0.056089956	0.263877746	-0.18495444	-0.31203816	0.592730197	1.842383168	0.233689
10571274	Gsr	0.449422617	0.261753924	0.000976458	0.016628897	0.028440542	0.173791204	0.187668693	0.355588271	0.527769638	1.716966111	0.233716
10594418	Smad6	-0.576232967	-0.368410924	0.000289298	0.006818823	0.007945801	0.074635501	-0.207822043	-0.472321945	0.440000819	1.56410391	0.23385
10386197	2210407C18Rik	0.663051374	0.427500618	0.000255824	0.0062626	0.006929366	0.067448985	0.23550756	0.545275996	0.431984458	1.550995123	0.234331
10603431	Suv39h1	0.454435713	0.264231162	0.001014662	0.017128913	0.029314335	0.177086456	0.190204551	0.359333438	0.529326056	1.719841483	0.234843
10509127	Fuca1	0.600332083	0.393293807	0.000199191	0.005249322	0.00524658	0.055189976	0.207038276	0.496812945	0.416732853	1.526421399	0.235007
10424392	9930014A18Rik	-0.47973627	-0.248005108	0.002970642	0.036223483	0.082297643	0.327760419	-0.231731163	-0.363870689	0.636850315	1.934380607	0.235536
10491083	Nceh1	0.438920199	0.227325601	0.002972332	0.036226887	0.081815607	0.326702394	0.211594599	0.3331229	0.635184789	1.930799691	0.236454
10373027	Tspan31	0.473884963	0.288210684	0.000618086	0.011973615	0.017387117	0.126643734	0.185674278	0.381047823	0.487272901	1.644231072	0.236783
10352048	Exo1	0.644535636	0.425068944	0.000185811	0.004990734	0.004779223	0.051793678	0.219466693	0.53480229	0.41036977	1.516308463	0.237233
10476314	Prnp	-0.399453218	-0.195732474	0.004413101	0.047041313	0.116133464	0.39508466	-0.203720744	-0.297592846	0.684561967	2.040812186	0.237306
10570201	Atp11a	0.40074843	0.204416216	0.003367611	0.039506321	0.091163665	0.346606833	0.196332214	0.302582323	0.648855533	1.96045323	0.237315

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10404376	Agtr1a	-0.53221201	-0.33350165	0.000419238	0.009027695	0.011491052	0.09632669	-0.198710359	-0.43285683	0.459067169	1.595830213	0.237579
10385686	Hnmpab	0.58673625	0.405426989	7.72E-005	0.002646592	0.001783727	0.025823294	0.181309261	0.496081619	0.365482723	1.447205702	0.238254
10586168	Snord16a	0.568295771	0.349481224	0.000553067	0.011101381	0.015276831	0.116076592	0.218814547	0.458888497	0.47683598	1.626112453	0.238559
10461334	Mta2	0.394396701	0.210569081	0.00246908	0.03191155	0.067293083	0.292421197	0.18382762	0.302482891	0.607728983	1.873003855	0.239744
10356995		-0.737569964	-0.494818458	0.000144261	0.004123482	0.003540779	0.042154319	-0.242751506	-0.616194211	0.393952916	1.490587007	0.239968
10561337	1700049G17Rik	-0.375121161	-0.185284119	0.004409312	0.047039994	0.113458724	0.39043211	-0.189837042	-0.28020264	0.67749912	2.024572657	0.24069
10482929	Ly75	0.617037281	0.427391011	8.12E-005	0.00273032	0.001821387	0.026220621	0.18964627	0.522214146	0.363158049	1.443730133	0.24299
10439766	Pvrl3	-0.713409264	-0.486092766	0.000114075	0.003473408	0.002665181	0.034394097	-0.227316499	-0.599751015	0.379018114	1.46764016	0.243073
10450723	H2-T10	0.425707335	0.231600157	0.002236346	0.029788544	0.059742165	0.273685865	0.194107178	0.328653746	0.59061301	1.838113328	0.243394
10366653	Wif1	-0.593018053	-0.37216867	0.000459621	0.009681115	0.012111586	0.099768999	-0.220849383	-0.482593361	0.457630379	1.593412076	0.243557
10465633	Cox8a	0.429836218	0.226549221	0.003040861	0.03674498	0.078008746	0.318284612	0.203286997	0.328192719	0.619413487	1.897319337	0.246451
10475890	Mertk	0.524139763	0.309238374	0.001072628	0.017739825	0.028315701	0.17333828	0.214901389	0.416689068	0.515735607	1.694937652	0.247197
10366983	Tmem194	0.41291974	0.23999503	0.001279416	0.019951434	0.033611101	0.192732254	0.172924711	0.326457385	0.529700717	1.720534551	0.247904
10547590	Klrg1	0.584750653	0.347343344	0.001015002	0.017128913	0.026541361	0.166202405	0.237407309	0.466046999	0.509406368	1.683494624	0.248445
10535647	Atp5j2	0.45623163	0.268199651	0.001149174	0.018613307	0.029991757	0.179782441	0.188031979	0.36221564	0.519116123	1.701089573	0.24884
10571399	Zdhhc2	0.538186085	0.34519042	0.00037373	0.008276885	0.009297373	0.082949241	0.192995665	0.441688253	0.436949961	1.559099133	0.249591
10488507	Abhd12	0.608017312	0.376772409	0.000633967	0.012171024	0.016018217	0.120150672	0.231244903	0.492394861	0.469633056	1.613752222	0.251469
10586174		0.59960131	0.403701475	0.000174333	0.004796123	0.003977369	0.04549515	0.195899835	0.501651393	0.3905099	1.485259151	0.25257
10587023	Rab27a	0.421822307	0.225187824	0.003067527	0.036931189	0.075001188	0.131331189	0.196634483	0.323505065	0.607825052	1.873202111	0.253515
10392998	Caskin2	-0.394426234	-0.219987474	0.002116471	0.028593681	0.052795014	0.25496255	-0.17443876	-0.307206854	0.567821837	1.792948604	0.253681
10469457	Pixdc2	-0.414746226	-0.219516348	0.003329385	0.039165283	0.080384415	0.324215455	-0.195229877	-0.317131287	0.615612163	1.889363727	0.25447
10430574	4933432B09Rik	-0.444884093	-0.27190066	0.000819498	0.0146789	0.020254813	0.139645592	-0.172983433	-0.358392377	0.482664936	1.636200859	0.255769
10498168	Exosc8	0.507529201	0.318050806	0.000631106	0.012141846	0.015044419	0.115065601	0.189478395	0.412790003	0.459018856	1.595748829	0.259603
10446027	Chaf1a	0.504491356	0.276771994	0.002700977	0.033951361	0.063855885	0.283917003	0.227719362	0.390631675	0.582951607	1.822768805	0.259852
10579812	Ednra	-0.374555323	-0.198303228	0.003674391	0.041724881	0.084243222	0.332516533	-0.176252095	-0.286429275	0.615342459	1.888800936	0.261163
10362904	Rtn4ip1	0.600512684	0.407349376	0.000179807	0.004894256	0.003870399	0.042929416	0.193163307	0.50393103	0.383312985	1.474195662	0.261166
10577190	Rasa3	0.712780948	0.458563006	0.000444871	0.009444955	0.01029078	0.089298086	0.254217942	0.585671977	0.434061987	1.554379526	0.261298
10538106	Zfp775	-0.388526866	-0.211473886	0.002993601	0.036379893	0.069247746	0.297083595	-0.17705298	-0.30000376	0.59017586	1.837233303	0.262191
10414260	Ang3	0.648631703	0.353769869	0.002953698	0.036033987	0.068280018	0.294592479	0.294861834	0.501200786	0.588310798	1.833484874	0.262427
10591563	Kank2	-0.374531464	-0.192866844	0.004618195	0.048661666	0.102418887	0.368449613	-0.18166462	-0.283699154	0.640342481	1.941917316	0.26296
10506108		-0.978284552	-0.541562459	0.002629615	0.033370882	0.060922948	0.276141098	-0.436722093	-0.759923505	0.574692176	1.806411313	0.263155
10373986	Ap1b1	0.431310614	0.255918283	0.001328278	0.020483876	0.031316923	0.184621675	0.175392331	0.343614449	0.510433515	1.685345059	0.263401
10526743	Cops6	0.492729294	0.282682001	0.001907813	0.026455828	0.044574905	0.229794869	0.210047293	0.387705647	0.541770012	1.74305153	0.263903
10536898	Irf5	0.380786889	0.203415854	0.003665568	0.041668641	0.081692923	0.326568127	0.177371035	0.292101372	0.607224244	1.871962685	0.265626
10450161	H2-Ea	0.584958896	0.387854279	0.000296482	0.006968735	0.006465267	0.063925456	0.1971104617	0.486406587	0.405226044	1.508192453	0.265655
10525553		-0.506241358	-0.29231127	0.001865009	0.026073563	0.04285955	0.224285204	-0.213930088	-0.399276314	0.535794588	1.731857134	0.266477
10507551	2610528J11Rik	-0.475782987	-0.29591729	0.000790694	0.014292621	0.018111825	0.129497027	-0.179865697	-0.385850139	0.46615429	1.607824225	0.266515
10404649	Dsp	-0.55255696	-0.377973898	0.00017071	0.004711601	0.003517424	0.041973531	-0.174583062	-0.465265429	0.375233257	1.461891848	0.266701
10537789	Tas2r126	-0.549193297	-0.329338184	0.001255692	0.01971321	0.028851138	0.175393438	-0.219855113	-0.439265741	0.500505942	1.667566423	0.267203
10591120	Fat3	-0.762349184	-0.467210706	0.001000662	0.016922378	0.022629527	0.150195079	-0.295138478	-0.614779945	0.48007174	1.631703157	0.269128
10574572	2210023G05Rik	-0.706966811	-0.500305307	8.76E-005	0.002878035	0.001649352	0.02441498	-0.206661504	-0.603636059	0.342361097	1.41307078	0.269311
10386070	Atox1	0.620063385	0.410798213	0.000334191	0.007592677	0.00707714	0.068497753	0.209265171	0.515430799	0.406000518	1.509411104	0.271219
10495830	Sec24d	0.401651913	0.230287859	0.002232742	0.029755979	0.048758328	0.24270701	0.171364054	0.315969886	0.542342995	1.744129782	0.273374
10393836	Arhgdia	0.522884678	0.323358179	0.000971271	0.01658722	0.021249842	0.144182115	0.199526499	0.423121429	0.471558484	1.617044851	0.274041
10490826	Zbtb10	-0.484358961	-0.296750387	0.00109214	0.017927332	0.023939913	0.15568525	-0.187608574	-0.390554674	0.480364431	1.63221004	0.274042
10405427	Prelid1	0.646889324	0.461965968	7.89E-005	0.002679275	0.001417407	0.02203634	0.184923356	0.554427646	0.333539205	1.400296492	0.274475
10410984	Ckmt2	-0.847468384	-0.599079473	1.00E-004	0.003138356	0.001845126	0.026473277	-0.24838891	-0.723273928	0.343423012	1.41461763	0.274508
10605081	Bcap31	0.451725938	0.246082648	0.003596056	0.04111517	0.075750647	0.312767644	0.205643289	0.348904293	0.589397418	1.835667574	0.274814
10432986	Aaas	0.544593735	0.354134835	0.000487484	0.010107225	0.010299424	0.089310288	0.1904589	0.449364285	0.42384076	1.537814644	0.275201
10375485		0.520046778	0.349432806	0.000282266	0.006707579	0.005738015	0.058772297	0.170613972	0.434739792	0.392450785	1.488259745	0.275201
10546762	Il5ra	0.426563791	0.260187013	0.001184059	0.018987738	0.02570542	0.163036006	0.166376778	0.343375402	0.484533188	1.639450742	0.275618
10377689	Gabarap	0.623766942	0.41528447	0.000338386	0.007659331	0.00692771	0.067448985	0.208482472	0.519525706	0.401293853	1.502023281	0.276321
10484227	Sestd1	0.514301326	0.310676759	0.001348323	0.020723802	0.02911159	0.176427505	0.203624566	0.412489042	0.493648425	1.65542259	0.276501
10356271	A530032D15Rik	0.715718064	0.491399965	0.00019292	0.005123255	0.00376041	0.043979073	0.224318099	0.603559014	0.371658932	1.45648782	0.276581
10594110	Neo1	-0.598391378	-0.409095665	0.000220653	0.005635549	0.004278472	0.047956255	-0.189295713	-0.503743522	0.37577796	1.462717475	0.279204
10363157	Pln	-1.062670424	-0.734368069	0.000179421	0.004888946	0.003406205	0.041105066	-0.328302355	-0.898519246	0.36538155	1.447054235	0.279489

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10591369	Dnmt1	0.584594062	0.415941499	9.57E-005	0.003042659	0.001698103	0.024906932	0.168652563	0.500267781	0.337124574	1.405471834	0.279601
10455514	Kcnn2	-0.495607112	-0.30398172	0.001184329	0.018987738	0.025037517	0.160305057	-0.191625392	-0.399794416	0.479309825	1.630384589	0.279639
10387922	Slc25a11	0.50530495	0.269122444	0.004709814	0.049383786	0.093167042	0.350646867	0.236182507	0.387213697	0.609953905	1.877602416	0.281267
10427402	Ghr	-0.432595542	-0.260080835	0.001543899	0.022705344	0.03227238	0.188051632	-0.172514707	-0.346338188	0.498110553	1.663311875	0.281394
10431915	Slc38a4	-0.519044595	-0.332058381	0.000696514	0.012955169	0.014363132	0.112018884	-0.186986214	-0.425551488	0.439397392	1.563112466	0.281407
10398130	Ak7	-0.449105643	-0.250658948	0.00324384	0.038376818	0.065989336	0.289491415	-0.198446695	-0.349882295	0.567181298	1.791700022	0.28158
10593225	Zbtb16	-0.815907388	-0.534238181	0.00050301	0.01034797	0.010112927	0.088262019	-0.281669206	-0.675072785	0.417242722	1.52723526	0.28287
10581289	Atp6v0d1	0.460365712	0.264416404	0.002553534	0.032690326	0.052135228	0.25292138	0.195949308	0.362391058	0.540712315	1.741063357	0.283065
10498653	1110032A04Rik	-0.55472087	-0.358943644	0.000606418	0.011827911	0.012293911	0.10085015	-0.195777226	-0.456832257	0.428553857	1.545426083	0.28307
10430372	Rac2	0.465239187	0.294501775	0.000844528	0.015039673	0.017249938	0.126182037	0.170737412	0.379870481	0.449462173	1.579750026	0.28387
10438415	Igl-V2	0.577955549	0.398762274	0.000202797	0.005306706	0.003777349	0.044128687	0.179193275	0.488358911	0.366929466	1.449373691	0.284103
10569717		-0.458209195	-0.280247544	0.001340819	0.020633176	0.027391884	0.169402825	-0.17796165	-0.36922837	0.481982602	1.635015914	0.285001
10494804	Casq2	-0.559695305	-0.380357796	0.000276469	0.006620263	0.005230109	0.055234098	-0.179337509	-0.470026551	0.381547614	1.471496867	0.285045
10545502	Dnahc6	-0.735043168	-0.487398637	0.000442952	0.009419797	0.008593672	0.078835735	-0.247644531	-0.611220903	0.405163714	1.508094426	0.287133
10355214	Ihh1	0.651629925	0.425805869	0.000568104	0.011312708	0.011126563	0.094194134	0.225824056	0.538717897	0.419187959	1.530345099	0.28783
10371662	Spic	0.790081106	0.492577089	0.001115089	0.018195874	0.022273262	0.148726617	0.297504018	0.641329098	0.463886667	1.603974534	0.288249
10512949	Abca1	0.359291066	0.197082034	0.004142102	0.045475843	0.079459822	0.321925219	0.162209032	0.27818655	0.583094446	1.82305337	0.28829
10502469	Pdlim5	-0.41062096	-0.250340668	0.001473346	0.022064089	0.029441735	0.17776591	-0.160280292	-0.330480814	0.484991215	1.640248717	0.288406
10436892	Itns1	0.433869006	0.250235442	0.002666159	0.033662063	0.052530134	0.254231198	0.183633564	0.342052224	0.536858266	1.733843146	0.288469
10427640		-0.594418412	-0.36522139	0.001355585	0.020810501	0.026991517	0.167793235	-0.229197022	-0.479819901	0.477673023	1.627556405	0.289001
10388377	Srr	-0.488704348	-0.283765903	0.002520776	0.032388126	0.049595434	0.24551892	-0.204938445	-0.386235125	0.530605406	1.722209552	0.289086
10580649	Es22	-0.633201368	-0.441289471	0.000192003	0.005114407	0.003384638	0.040903094	-0.191911897	-0.537245419	0.35721458	1.43488891	0.291772
10550698	Ckm	-0.363131816	-0.206845927	0.00315723	0.037605463	0.060380268	0.274986499	-0.156285889	-0.284988872	0.548392953	1.755566673	0.291915
10603440	Was	0.364766942	0.198547958	0.004658939	0.048945895	0.086441985	0.336860391	0.166218985	0.28165745	0.590145883	1.837172976	0.292208
10462507	Papss2	-0.393213697	-0.221153106	0.003590381	0.04110522	0.067704721	0.293505282	-0.172060591	-0.307183401	0.560123333	1.778015709	0.29292
10429100	Lrrc6	-0.799821691	-0.564645207	0.000152263	0.004294834	0.002588303	0.033790071	-0.235176484	-0.682233449	0.344715559	1.41650311	0.293953
10483536	4930578N16Rik	-0.570674854	-0.355645273	0.001235198	0.019498808	0.023804437	0.155039911	-0.215029581	-0.463160063	0.464266239	1.604618132	0.294042
10492330	P2ry1	0.483112396	0.303782046	0.001132308	0.018406637	0.021561071	0.145601043	0.17933035	0.393447221	0.455792646	1.590325702	0.295771
10532954	Mlec	0.542159047	0.3848803	0.000139866	0.004033313	0.002328244	0.031239609	0.157278747	0.463519674	0.339314069	1.408643276	0.295902
10363696	D630028G08Rik	-0.421608443	-0.247430694	0.00252184	0.032388126	0.047541718	0.239509484	-0.174177749	-0.334519569	0.520680299	1.703945602	0.296023
10473847	Acp2	0.652050117	0.449602112	0.000260681	0.00633764	0.004579123	0.050250931	0.202448006	0.550826114	0.367535236	1.450282596	0.296507
10439009	Apod	-0.644797267	-0.444233934	0.000271947	0.006535903	0.00475156	0.051591809	-0.200563333	-0.5445156	0.368333493	1.451481343	0.297886
10351867	Aim2	0.722007035	0.418265873	0.002989331	0.036364997	0.054997646	0.261318473	0.303741162	0.570136454	0.532751694	1.726191595	0.29881
10437195	Igfs5	-0.405729991	-0.232356569	0.003391785	0.039654451	0.061516151	0.277699009	-0.173373422	-0.31904328	0.543416624	1.746152445	0.300046
10476620	Snrbp2	0.36727516	0.205275201	0.004405465	0.047018498	0.076957694	0.315710888	0.161999959	0.286275181	0.565888942	1.789184267	0.30335
10428561	Rad21	0.387356382	0.226030006	0.003026609	0.036644816	0.053855082	0.25833531	0.161326376	0.306693194	0.526018769	1.71373876	0.304298
10504650		-0.41934153	-0.255309169	0.001973776	0.027092291	0.035340825	0.199744632	-0.164032361	-0.33732535	0.486273449	1.642485194	0.305605
10358541	Hmcn1	-0.604067878	-0.356143268	0.002800576	0.034753541	0.04952439	0.245451255	-0.24792461	-0.480105573	0.516396025	1.69613729	0.305939
10400844	Pygl	0.601500911	0.37721113	0.001427839	0.021520711	0.02530313	0.161337045	0.224289781	0.489356021	0.458336613	1.594600114	0.307667
10603814	Slc9a7	0.585432013	0.390134561	0.000601348	0.011818828	0.01034297	0.089599508	0.195297452	0.487783287	0.400377498	1.50058998	0.308659
10564839	Ap3s2	0.415598349	0.247969564	0.002584726	0.032958143	0.04509253	0.231124386	0.167628785	0.331783957	0.505234753	1.676005485	0.308744
10414333	Samd4	-0.518628199	-0.304559286	0.003053356	0.036829346	0.052804305	0.25496255	-0.214068912	-0.411593742	0.520097588	1.702880924	0.309052
10567407	Thumpd1	0.39526155	0.228210986	0.003611079	0.041231834	0.061753826	0.27824335	0.167050563	0.311736268	0.535871441	1.732000531	0.309416
10403258	Gdi2	0.536607621	0.345228698	0.001057115	0.017573858	0.01837203	0.130810894	0.191378923	0.44091816	0.434046361	1.554354037	0.310231
10346651	Bmpr2	-0.501841662	-0.330988913	0.000750144	0.013704407	0.012779148	0.103738153	-0.170852748	-0.416415287	0.410294131	1.516188735	0.311789
10565802	Rps3	0.656037486	0.426456294	0.000935536	0.016173432	0.016052494	0.120322294	0.229581192	0.54124689	0.424170922	1.538346357	0.311825
10600973	Igfbp1	0.503948906	0.330738639	0.0008193	0.0146789	0.013945403	0.110044212	0.173210267	0.417343772	0.415030195	1.523707384	0.312458
10356461	Hjrp	0.556737666	0.35936063	0.001056315	0.017573858	0.018054048	0.129300032	0.197377035	0.458049148	0.430907985	1.549245017	0.31296
10547177	Rassf4	0.39768185	0.23070229	0.003641398	0.04144896	0.060955877	0.276141098	0.16697956	0.31419207	0.531456954	1.723788049	0.313023
10566529	Top1	0.497178057	0.302004658	0.002321211	0.03063283	0.039306232	0.213257173	0.195173399	0.399591358	0.488432484	1.646259566	0.314335
10565072	Sec11a	0.596135745	0.425956222	0.000177752	0.004858941	0.002680974	0.034528475	0.170179523	0.511045983	0.333002369	1.399523506	0.315569
10477777	Ergic3	0.474944895	0.284806052	0.002746993	0.034344776	0.045757481	0.233453196	0.190138842	0.379875473	0.500529399	1.667608153	0.316226
10394593	Fam49a	-0.559786934	-0.397704032	0.000206915	0.005364736	0.003139858	0.038747058	-0.162082903	-0.478745483	0.33855756	1.407546542	0.316835
10506822	Orc1l	0.470265475	0.293186107	0.001800344	0.025335101	0.030052235	0.179976847	0.177079368	0.251725791	0.463891549	1.603982809	0.317495
10507143	Cyp4a12a	-0.549325653	-0.358115247	0.000992773	0.016842358	0.016451228	0.122542945	-0.191210406	-0.45372045	0.421427789	1.533935396	0.317814
10552140	Cebpa	0.378343371	0.228348922	0.002648405	0.03348835	0.043628198	0.226781811	0.14999445	0.303346146	0.49446631	1.656865155	0.318357

Suppl Table 1

10600698	5430427O19Rik	0.545735245	0.347306353	0.001404653	0.021283721	0.023327971	0.153062977	0.198428892	0.446520799	0.444388912	1.571336775	0.318387
10544732	Skap2	0.505760496	0.322465943	0.001376061	0.020999252	0.022813933	0.15100259	0.183294553	0.414113219	0.44261942	1.56841523	0.31865
10503966	Aco1	0.466802885	0.317913342	0.000520155	0.010571123	0.008212058	0.076412228	0.148889543	0.392358114	0.379473593	1.468333736	0.321399
10508772	Fgr	0.513758506	0.350046969	0.000516416	0.010525455	0.008147886	0.075912866	0.163711537	0.431902737	0.379047233	1.467684488	0.321436
10399254	Cenpo	0.470473911	0.271912603	0.004294413	0.046217605	0.067565209	0.293098491	0.198561308	0.371193257	0.534927034	1.730239444	0.322071
10452535		0.561247844	0.39161101	0.000345366	0.007799758	0.005229916	0.055163976	0.169636834	0.476429427	0.356058682	1.433176876	0.32398
10414093	Glud1	0.589104489	0.360922037	0.002454601	0.031804491	0.039179174	0.212847921	0.228182452	0.475013263	0.480370697	1.632220892	0.324203
10392440	Slc16a6	0.434040435	0.265783009	0.002518773	0.032388126	0.039873156	0.214652722	0.168257426	0.349911722	0.480856785	1.633063137	0.32551
10559446	Lilrb3	0.575560649	0.399311193	0.00040981	0.00888255	0.006159051	0.061802397	0.176249455	0.487435921	0.361584873	1.441383709	0.327199
10466573	Ostf1	0.46125911	0.285022374	0.002447765	0.031741808	0.037709222	0.20770822	0.176236736	0.373140742	0.472306334	1.61832597	0.33039
10575476	Vac14	0.422066616	0.269992018	0.00162516	0.02352769	0.024981189	0.160144144	0.152074598	0.346029317	0.439484723	1.563255905	0.331623
10520043	Lhfp13	-0.365634462	-0.214644593	0.004344436	0.046531818	0.064274918	0.284610211	-0.150989869	-0.290139527	0.520404341	1.703441291	0.33303
10395925	Mia2	0.654528777	0.460313719	0.000348365	0.007850609	0.005002157	0.053498067	0.194215057	0.557421248	0.348417033	1.421918898	0.333041
10550131	Pla2g4c	0.525688321	0.316074993	0.003452057	0.040091425	0.051628065	0.251411339	0.209613328	0.420881657	0.498033887	1.663175931	0.333427
10554094	Igf1r	-0.375264797	-0.224763817	0.003667823	0.041675827	0.054248915	0.259497048	-0.15050098	-0.300014307	0.501646009	1.66959612	0.334883
10423842	Dca113	0.537845746	0.383056604	0.00277472	0.006625263	0.003870769	0.044929416	0.154789142	0.460451175	0.336168416	1.404089475	0.335083
10522788	Stap1	0.697673148	0.487345624	0.000427842	0.009159176	0.006091281	0.061290083	0.210327524	0.592509386	0.35497754	1.431577743	0.336848
10533316	Erp29	0.492077727	0.325037417	0.001127152	0.018351581	0.016719945	0.123929408	0.167040309	0.408557572	0.408853784	1.513911015	0.337055
10435581	Polq	0.704556876	0.504324477	0.000259813	0.006333331	0.003556176	0.042239672	0.200232399	0.604440677	0.331268901	1.397030895	0.337459
10575799	Plcg2	0.599503356	0.419334285	0.000426959	0.009147907	0.006030619	0.060870834	0.180169071	0.50941882	0.353675725	1.429654996	0.338189
10427657		-0.421213733	-0.251013029	0.004074095	0.044862231	0.058679362	0.270603998	-0.170200704	-0.336113381	0.506378839	1.678055256	0.338661
10497066	Zranb2	0.473540039	0.281870428	0.004135805	0.045475843	0.059431901	0.27294651	0.191669611	0.377705234	0.507458182	1.679991912	0.338919
10352267	Lin9	0.546021596	0.355313041	0.001476583	0.022086796	0.02159783	0.145734253	0.190708555	0.450667318	0.423169258	1.536733902	0.340186
10458213	Etf1	0.491411116	0.344832151	0.000422403	0.009072994	0.005862393	0.059591027	0.146579009	0.418121656	0.350565456	1.425073499	0.341099
10359644	Mett11b	-0.391426097	-0.233329149	0.004246202	0.046066063	0.059991756	0.274290772	-0.158096949	-0.312377623	0.506108431	1.677570502	0.341753
10512704	Exosc3	0.439045259	0.264771273	0.003839652	0.043075252	0.054234021	0.259474156	0.174273985	0.351908266	0.495225609	1.658205791	0.342844
10399691	Id2	0.501721679	0.339298951	0.000879942	0.01552326	0.012418753	0.101646861	0.162422728	0.420510315	0.386251472	1.478700944	0.344502
10458607	Lars	0.607135135	0.426474649	0.000451079	0.009545183	0.006117061	0.061477179	0.180660485	0.516804892	0.349571934	1.423613656	0.345838
10504666		-0.58221392	-0.386052939	0.001234629	0.019498808	0.017427413	0.126685596	-0.196160981	-0.48413343	0.405179582	1.508119381	0.346031
10567219	Arl6ip1	0.430918799	0.265680775	0.003200113	0.038010409	0.044676394	0.23013319	0.165238024	0.348299787	0.474413222	1.621941968	0.346499
10521759	Slit2	-0.405490963	-0.249110929	0.003397736	0.039678387	0.046963271	0.237387403	-0.156380034	-0.327300946	0.477786685	1.627752603	0.347892
10458461	Hdac3	0.566449403	0.376471826	0.001286569	0.02001434	0.017704741	0.12772493	0.189977578	0.471460615	0.402955352	1.504626283	0.350659
10487748	4930402H24Rik	-0.405294297	-0.246572781	0.003948756	0.043933183	0.053276511	0.256326426	-0.158721515	-0.325933539	0.486975093	1.64371061	0.351067
10460738	Cdca5	0.477491337	0.31920356	0.001197017	0.019141454	0.016352755	0.121982713	0.158287777	0.398347449	0.397361092	1.495883495	0.351721
10548146	Tead4	-0.406113921	-0.25214352	0.003235536	0.038324747	0.043697892	0.226868427	-0.153970401	-0.32912872	0.467812109	1.610645876	0.352522
10597352		-0.387438763	-0.24397759	0.002831646	0.035010924	0.037982177	0.20880842	-0.143461173	-0.315708177	0.454410698	1.588009632	0.354589
10461154	Snhg1	0.618365049	0.43087307	0.000635534	0.0121796	0.008278567	0.076740429	0.18749198	0.52461906	0.3573869	1.435144345	0.35626
10444927	Nrm	0.421882511	0.268920178	0.002528251	0.03243745	0.033579244	0.192606038	0.152962332	0.345401344	0.442853899	1.568801988	0.356911
10425321	Apobec3	0.372924637	0.227068184	0.004306822	0.046320334	0.05582961	0.262942099	0.145856453	0.299996411	0.486193993	1.642346498	0.357721
10542665	Cmas	0.459344655	0.304505542	0.001505081	0.022310191	0.019934245	0.138289786	0.154839113	0.381925098	0.405417485	1.50849358	0.357893
10515822	Olfr1342	-0.45391134	-0.277520246	0.004259611	0.046066063	0.05460832	0.260197951	-0.176391095	-0.365715793	0.482317411	1.635597212	0.359945
10391572	Lsm12	0.359746607	0.220408051	0.004172795	0.045690669	0.053527974	0.257295137	0.139338556	0.290077329	0.480349692	1.63218451	0.360038
10506767	Echdc2	-0.50884035	-0.361051905	0.00048591	0.010090879	0.006069011	0.061137899	-0.147788445	-0.434946128	0.339785633	1.409327422	0.361219
10451665	Apobec2	-0.616134731	-0.390569621	0.002895312	0.035558304	0.037423292	0.206652327	-0.22556511	-0.503352176	0.448125827	1.577528558	0.361349
10444244	Tap1	0.401087605	0.260996922	0.002123096	0.028651749	0.027353812	0.169266548	0.140090682	0.331042263	0.423180656	1.536752238	0.362978
10483679	Gpr155	-0.386048849	-0.238253718	0.004064246	0.044811453	0.051235279	0.250163045	-0.147795131	-0.312151283	0.473472763	1.620326649	0.363612
10364990	Eef2	0.535793571	0.369094977	0.000909249	0.01585786	0.011457589	0.096203269	0.166698594	0.452444274	0.368440056	1.451641459	0.364896
10591192	Olfr47	0.454289559	0.294178044	0.002353374	0.030914229	0.029890696	0.179470034	0.160111515	0.374233801	0.427838198	1.544267387	0.365412
10510265	Nppa	-0.606543313	-0.410438921	0.001244434	0.019608423	0.015747026	0.118566927	-0.196104392	-0.508491117	0.385659427	1.477791902	0.365684
10493585	Ube2q1	0.427248812	0.282003915	0.001855833	0.025987734	0.023409306	0.153371865	0.145244897	0.354626364	0.409571626	1.515045674	0.367003
10428398	Eif3e	0.472017134	0.298505628	0.003420083	0.0398668	0.041865353	0.221314277	0.173511507	0.385261381	0.450373474	1.581267121	0.37063
10456891	Atp5a1	0.553102255	0.365753996	0.001972708	0.027092275	0.024152515	0.156789768	0.187348259	0.459428126	0.407785786	1.512224778	0.37254
10500780	Nr1h5	0.403277458	0.26156132	0.002597572	0.033056256	0.031603157	0.185669452	0.141716138	0.332419389	0.426317304	1.541808466	0.373195
10597273	Rtp3	-0.449022312	-0.303997807	0.001426608	0.021514795	0.017254769	0.126182037	-0.145024505	-0.37651006	0.385180956	1.477057734	0.374453
10550052	Rps5	0.71321307	0.488559119	0.001216112	0.019304363	0.014514179	0.112560737	0.224653951	0.600886095	0.37387111	1.459829613	0.376393
10590830	AK129341	-0.867004122	-0.609305926	0.000819355	0.0146789	0.009474537	0.084164245	-0.257698196	-0.738155024	0.349111214	1.422937289	0.380023

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10397264	7420416P09Rik	-0.38431977	-0.24034815	0.004497736	0.047666349	0.051643665	0.251439606	-0.143971619	-0.31233396	0.460954099	1.599012803	0.380753
10436666	Jam2	-0.413116537	-0.275892142	0.00201059	0.027509505	0.023316598	0.153062977	-0.137224396	-0.344504339	0.398324143	1.497384213	0.382781
10461497	Ddb1	0.399165622	0.257972993	0.003153296	0.037593005	0.036296316	0.203151734	0.141192629	0.328569307	0.42971947	1.547315543	0.382973
10351035	Gas5	0.720009714	0.481665767	0.001988395	0.0027263959	0.022952691	0.15176447	0.238343947	0.600837741	0.396686045	1.494832649	0.383667
10548030	Cd9	0.453353215	0.291255281	0.003455177	0.040091425	0.039425795	0.213257193	0.162097934	0.372304248	0.435391041	1.556549339	0.384135
10471844	Nek6	0.436905382	0.29859503	0.001507436	0.02231423	0.017063049	0.125422202	0.138310352	0.367750206	0.376098639	1.463203797	0.387082
10560260	Sae1	0.473577976	0.329024379	0.001197646	0.019141454	0.013293704	0.106432565	0.144553596	0.401301177	0.360212241	1.439340078	0.389997
10436392	Cpox	0.479654993	0.34118922	0.000780465	0.014147574	0.008511059	0.078235789	0.138465772	0.410422107	0.33737406	1.405832788	0.390697
10404132	Cmah	0.390777848	0.250869763	0.00386192	0.04325859	0.042370462	0.222907364	0.139908085	0.320823805	0.436090099	1.557692101	0.39109
10516859	Ythdf2	0.354766877	0.224461507	0.004652682	0.048944693	0.050346231	0.247602707	0.130305371	0.289614192	0.449927436	1.580524352	0.392221
10374442	C1d	0.517228182	0.346743058	0.002342887	0.03087127	0.025345279	0.161429933	0.170485124	0.43198562	0.394654627	1.491675665	0.396064
10598203	Ccl28	-0.409037912	-0.263249572	0.004156028	0.045530431	0.043879	0.227486602	-0.14578834	-0.336143742	0.433708327	1.553802761	0.398192
10559816		0.531794601	0.370805118	0.00133779	0.020598923	0.014101723	0.11083277	0.160989483	0.45129986	0.356723982	1.434161977	0.400402
10489253	Zhx3	-0.417489632	-0.292154805	0.00127937	0.019951434	0.013393457	0.106997586	-0.125334826	-0.354822218	0.353232745	1.42990142	0.401557
10421730	AU021034	-0.425794266	-0.279926338	0.003391044	0.039654451	0.035276223	0.19953065	-0.145867928	-0.352860302	0.413387187	1.521093973	0.402544
10405576	Fbxl21	-0.356598042	-0.231100879	0.00418147	0.045711236	0.042798921	0.224138744	-0.125497163	-0.29384946	0.427079779	1.543040611	0.404416
10354275	1700029F09Rik	0.487146247	0.348395699	0.000903425	0.015796397	0.009186318	0.082273002	0.138750548	0.417770973	0.332121082	1.398255627	0.405252
10426467	Tmem117	-0.504259836	-0.328031384	0.004218952	0.045962718	0.042369031	0.222907364	-0.176228452	-0.41614561	0.423477858	1.53723046	0.408219
10427035	Nr4a1	-0.45476883	-0.320748866	0.001242331	0.019587323	0.012557496	0.120455753	-0.134019964	-0.387758848	0.345627095	1.417834569	0.408281
10356508		-0.38670058	-0.261812739	0.002519397	0.032388126	0.025379916	0.161570359	-0.12488784	-0.32425666	0.385151197	1.477012084	0.410049
10549171	5730419I09Rik	0.412714611	0.266426646	0.004777956	0.049914768	0.047229866	0.238265764	0.146287965	0.339570628	0.430802764	1.54907408	0.410382
10509163	Id3	-0.423801682	-0.282343172	0.003244417	0.038376818	0.03232251	0.188258266	-0.14445851	-0.353072427	0.40065012	1.501016226	0.41148
10466963	9930021J03Rik	-0.591366367	-0.390064614	0.003722435	0.04212851	0.036908569	0.205102651	-0.201301753	-0.490715491	0.410220905	1.516072839	0.411708
10413381	Asb14	-0.408386979	-0.277087119	0.002506563	0.032314648	0.025035817	0.160305507	-0.13129986	-0.342737049	0.383092111	1.473857681	0.41177
10519516	Slc25a40	0.42064074	0.281506202	0.003125905	0.03732548	0.030909312	0.18301735	0.139134538	0.351073471	0.396311741	1.494250349	0.413161
10445061	Rnf39	-0.375996035	-0.25483385	0.002775975	0.034601226	0.026948576	0.167723944	-0.121162185	-0.315414942	0.384135842	1.475455613	0.417293
10367282	Cnpy2	0.373205321	0.250693205	0.003160374	0.03762545	0.030609947	0.181789938	0.122512116	0.311949263	0.392730905	1.488693407	0.417326
10366667	Gns	0.493416383	0.328051589	0.003724392	0.042132083	0.03566815	0.200906314	0.165364793	0.410733986	0.402608012	1.504081672	0.418818
10467124	Acta2	0.645054161	0.442286308	0.002414609	0.031476989	0.023201677	0.152859505	0.202767854	0.543670234	0.372961109	1.458453834	0.419631
10599498	Utp14a	0.446239877	0.314776621	0.001517421	0.022436159	0.014489916	0.112466633	0.131463256	0.380508249	0.34549384	1.417639835	0.420365
10607467	03/01/12	0.5700924	0.385934299	0.002999658	0.036404365	0.028533801	0.174133523	0.184158101	0.47801335	0.385257235	1.477174747	0.421207
10496023	Casp6	0.556859422	0.390584995	0.001771966	0.025045609	0.016679263	0.123735062	0.166274427	0.473722209	0.350995634	1.425706131	0.423662
10580582	4933436C20Rik	-0.392894927	-0.260183788	0.0044233045	0.046002788	0.039393388	0.213257193	-0.132711139	-0.326539358	0.406416978	1.510066903	0.423914
10574632	Cbfb	0.420337234	0.296830205	0.001588541	0.023141128	0.014885177	0.114153789	0.12350703	0.358583719	0.34443011	1.416086463	0.42431
10505182	Gng10	0.436877619	0.312092079	0.001378063	0.021017307	0.012610825	0.102792839	0.12478554	0.374484849	0.333219195	1.399835652	0.428594
10549341	4933424B01Rik	0.362266367	0.24092883	0.004345363	0.046531818	0.039338392	0.213257193	0.121337537	0.301597598	0.402315992	1.503623983	0.4295
10465912	Fen1	0.493081418	0.346289418	0.001920279	0.026585608	0.01753894	0.12699281	0.146792	0.419685418	0.34976674	1.423899758	0.429921
10537909	Rny3	1.295406214	0.879429911	0.00347617	0.040210151	0.031067745	0.183616728	0.415976303	1.087418063	0.382535768	1.473006772	0.433529
10541695	Lpcat3	0.50341274	0.352463829	0.002155177	0.028985256	0.019325773	0.135375232	0.150948911	0.427938284	0.352735234	1.428267807	0.433797
10345550	LOC100046859	-0.415480965	-0.285611663	0.002978114	0.036280132	0.026430345	0.165709355	-0.129869302	-0.350546314	0.370476871	1.454705876	0.435564
10580349	Mylk3	-0.440896377	-0.309275058	0.002156735	0.028985256	0.019151095	0.134382259	-0.131621319	-0.375085718	0.350909973	1.425580128	0.43582
10351703	Copa	0.472423362	0.33611881	0.001702531	0.024372875	0.015028579	0.115047294	0.136304552	0.404271086	0.337161269	1.405524917	0.436679
10586722	F830001A07Rik	-0.39118161	-0.264820088	0.003798823	0.042710553	0.03336632	0.191831435	-0.126361522	-0.328000849	0.385247546	1.477159883	0.436735
10562132	Cd22	0.396739489	0.269467152	0.003646246	0.041467361	0.031999893	0.187382338	0.127272337	0.33310332	0.382080663	1.472311139	0.437123
10508479	Ptp4a2	0.41768307	0.283893622	0.003693226	0.041897363	0.032169882	0.187702737	0.133789448	0.350788346	0.3813965	1.471266126	0.438641
10352709	Nsl1	0.384822344	0.261626388	0.00369385	0.041897363	0.032136063	0.187702737	0.123195956	0.323224366	0.381146872	1.470885055	0.438898
10596135		-0.513638491	-0.346215304	0.004209053	0.045914986	0.036376009	0.203331749	-0.167423187	-0.429926897	0.389422454	1.483581128	0.439542
10575616	Gabarapl2	-0.428129992	-0.290679766	0.003931991	0.043823856	0.033568337	0.192921313	-0.137450226	-0.359404879	0.382438397	1.472857906	0.441766
10516943	Atpi1f1	0.393653948	0.265995463	0.004206344	0.045909007	0.035972642	0.20213349	0.127658485	0.329824706	0.387049491	1.4799273	0.441784
10365420	Al597468	0.374341802	0.254816299	0.003876344	0.0433165	0.032997209	0.19051172	0.119525503	0.314579051	0.379953791	1.469065375	0.443262
10361509	Syne1	-0.442663354	-0.308979024	0.002656522	0.033568201	0.022706725	0.150535006	-0.133684331	-0.375821189	0.355712596	1.432664745	0.443668
10565759	Uvrag	0.462950782	0.321352456	0.003023108	0.036619692	0.025497969	0.16212085	0.141598326	0.392151619	0.36108056	1.44063247	0.44622
10367641	Mthfd1l	0.378185113	0.255700835	0.004456509	0.047385942	0.037258978	0.206024008	0.122484279	0.316942974	0.386455258	1.479013996	0.446239
10367106	Atp5b	0.494175281	0.351325484	0.002116915	0.028593681	0.01764153	0.127412153	0.142849797	0.422750383	0.337905778	1.460602434	0.449037
10354555	Asnsd1	0.505688219	0.35452265	0.00269645	0.033911066	0.02245457	0.149510737	0.151165569	0.430105434	0.351461657	1.426391851	0.449146
10560624	Apoe	0.417489111	0.293818385	0.002566728	0.032777494	0.021284921	0.144238813	0.123670726	0.355653748	0.347727885	1.420908738	0.450088

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10554281	Fanci	0.390547915	0.267455938	0.003976807	0.044169923	0.032671347	0.189515962	0.123091977	0.329001927	0.374137556	1.460232731	0.450719
10362036	Hbs1l	0.42770746	0.301853027	0.00253205	0.032447656	0.020790397	0.141992793	0.125854433	0.364780243	0.34501439	1.416939444	0.452196
10417713	Rarb	-0.360731647	-0.248643342	0.003935413	0.043840943	0.03151148	0.185173231	-0.112088305	-0.304687495	0.367879572	1.450799544	0.456315
10514072	Zdhhc21	0.449516349	0.319098059	0.002519465	0.032388126	0.020120233	0.139053887	0.13041829	0.384307204	0.339359472	1.408709128	0.458111
10419744	Slc7a7	0.597390748	0.425257573	0.002398988	0.031289242	0.019158686	0.134398782	0.172133175	0.51132416	0.336641975	1.40477392	0.458116
10521243	Grk4	-0.426449952	-0.299151225	0.00308386	0.037040954	0.024578326	0.158633975	-0.127298727	-0.362800589	0.35087795	1.425533028	0.458246
10551185	Tgfb1	0.38592472	0.269203586	0.003768894	0.042467062	0.028977008	0.175951893	0.116721134	0.327564153	0.356330608	1.433579417	0.465349
10599612	Phf6	0.377097938	0.261288788	0.004220591	0.045962718	0.032262895	0.188039055	0.11580915	0.319193363	0.362818163	1.443222805	0.466046
10441620	Fgfr1op	0.42755984	0.298623582	0.004440719	0.047257205	0.032220129	0.187855811	0.128936258	0.363091711	0.355106587	1.431768507	0.477288
10554521	Pde8a	-0.479823447	-0.335855494	0.004338094	0.04649278	0.031401895	0.184825461	-0.143967953	-0.407839471	0.35300152	1.428660407	0.477942
10565456	Prss23	-0.402022856	-0.281171338	0.004448385	0.047319164	0.032060622	0.187627007	-0.120851518	-0.341597097	0.353783796	1.429814498	0.478768
10563101	Rpl13a	0.526570748	0.375452666	0.003643645	0.041456154	0.025540351	0.162350107	0.151118082	0.451011707	0.335064654	1.402495694	0.485882
10456317	Zfp532	-0.402512909	-0.283342858	0.004667966	0.049005048	0.032183253	0.187702737	-0.119170051	-0.342927884	0.347507615	1.420586041	0.488442
10479743	Gm14496	-0.383752347	-0.271401982	0.004355299	0.046618772	0.030040876	0.179950806	-0.112350365	-0.327577164	0.342973739	1.413962949	0.488731
10453717	Fabp5l2	0.4594095	0.328209604	0.003825984	0.042978278	0.026186146	0.164862888	0.131199895	0.393809552	0.333155696	1.399744229	0.491052