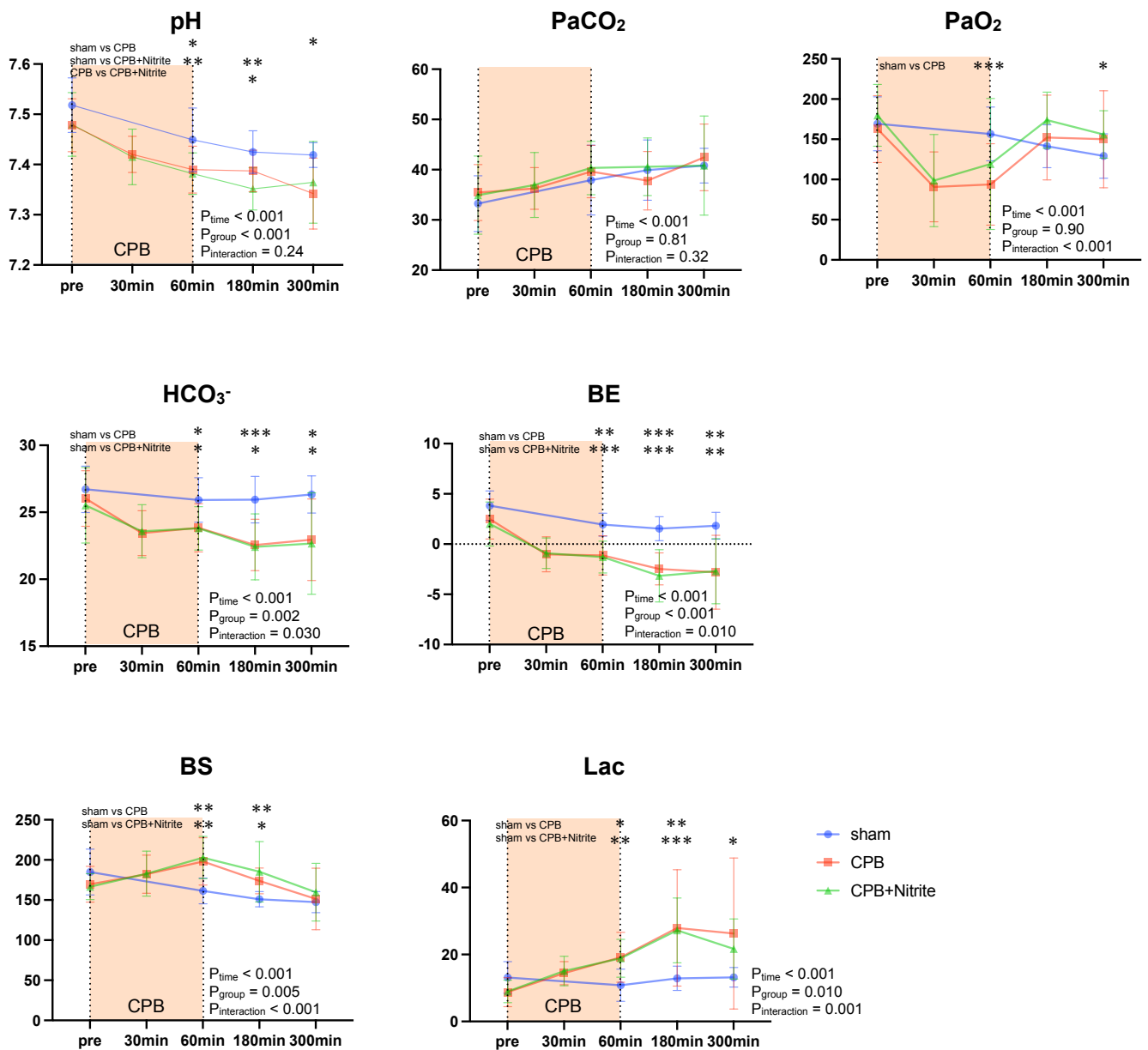




Supplemental Digital Content 1. Results of blood gas analysis during the experiments.

Data are expressed as mean $\pm$ SD. n = 12 per group; repeated measures 2-way ANOVA with Tukey's multiple comparison test. ns = not significant, *p<0.05, **p<0.01, ***p<0.001. BE, Base Excess, BS = Blood Sugar, Lac = Lactic acid

Supplemental Digital Content 2. List of DEGs detected with DESeq2 by the criteria outlined in the manuscript

gene_id	symbol	CPB-sham	CPB-CPB_N	CPB_N-sham
ENSRNOG00000000001	AABR07013255.1	Up		
ENSRNOG00000000012	Tcf15	Down	Down	
ENSRNOG00000000017	Steap1	Up		Up
ENSRNOG00000000036	Klhdc8a	Down	Down	
ENSRNOG00000000054	Abhd8	Down	Down	
ENSRNOG00000000091	LOC103691556	Down		
ENSRNOG00000000096	Pdzk1	Down		
ENSRNOG00000000097	ENSRNOG00000000097	Down		
ENSRNOG00000000105	Cplx2	Down	Down	
ENSRNOG00000000123	Rnf19b	Up		Up
ENSRNOG00000000129	Phf24		Down	
ENSRNOG00000000137	Ly86	Up		
ENSRNOG00000000145	Pik3r3	Down	Down	
ENSRNOG00000000156	LOC100911486		Down	
ENSRNOG00000000187	Csf2rb	Down	Down	Down
ENSRNOG00000000195	LOC108348048	Up	Up	Up
ENSRNOG00000000231	Kctd17	Down		
ENSRNOG00000000237	RGD1310429	Down		
ENSRNOG00000000239	Ccl7	Up		Up
ENSRNOG00000000245	Slc16a6	Down		
ENSRNOG00000000250	Jmjd6	Up		
ENSRNOG00000000274	Phyhipl	Down		
ENSRNOG00000000275	Fam13c	Down	Down	
ENSRNOG00000000281	Prodh1	Down		
ENSRNOG00000000288	Scarf2		Down	
ENSRNOG00000000307	Mical1		Down	
ENSRNOG00000000312	Fig4	Down		
ENSRNOG00000000321	Cd24	Up		Up
ENSRNOG00000000323	Prdm1	Up		Up
ENSRNOG00000000394	Srgn	Up		Up

ENSRNOG00000000412	Slc35f1	Down		Down
ENSRNOG00000000428	Cyp21a1	Up	Up	
ENSRNOG00000000433	Prrt1	Down	Down	
ENSRNOG00000000435	Ppt2	Down		
ENSRNOG00000000436	Egfl8	Down	Down	
ENSRNOG00000000439	Ager	Up		Up
ENSRNOG00000000441	Gpsm3	Down	Down	
ENSRNOG00000000442	Notch4	Down	Down	
ENSRNOG00000000454	RT1-DOb	Down		
ENSRNOG00000000455	Tap2	Up	Up	Up
ENSRNOG00000000456	Psmb8	Up	Up	Up
ENSRNOG00000000457	Tap1	Up	Up	Up
ENSRNOG00000000459	Psmb9	Up	Up	Up
ENSRNOG00000000461	Brd2	Up		Up
ENSRNOG00000000477	Daxx	Up		
ENSRNOG00000000479	Kifc1	Down		
ENSRNOG00000000485	Bak1	Up		
ENSRNOG00000000488	Hmga1	Up		Up
ENSRNOG00000000500	Scube3			Down
ENSRNOG00000000501	Zfp523	Down		
ENSRNOG00000000502	Def6	Down	Down	
ENSRNOG00000000513	Mapk14	Up		
ENSRNOG00000000521	Cdkn1a	Up		Up
ENSRNOG00000000522	Cpne5	Down		
ENSRNOG00000000525	Pi16	Down	Down	
ENSRNOG00000000529	Pim1	Up		Up
ENSRNOG00000000536	Mdga1	Up		
ENSRNOG00000000547	Tspyl4	Down	Down	
ENSRNOG00000000561	Pald1	Down	Down	
ENSRNOG00000000562	Prfl	Up		Up
ENSRNOG00000000565	Sgpl1	Up		
ENSRNOG00000000567	Unc5b		Down	
ENSRNOG00000000568	Slc29a3	Down		
ENSRNOG00000000569	Vsir	Down	Down	
ENSRNOG00000000572	Chst3	Down	Down	

ENSRNOG00000000579	Marcks	Up		Up
ENSRNOG00000000582	Ddo	Down		Down
ENSRNOG00000000589	RGD1310495	Down		Down
ENSRNOG00000000590	Naglt1	Down		
ENSRNOG00000000611	Ube2d1	Up		
ENSRNOG00000000632	Cdk1	Down		
ENSRNOG00000000634	Cabcoc1	Down		
ENSRNOG00000000635	Arid5b	Up		Up
ENSRNOG00000000638	Zfp365	Up	Up	Up
ENSRNOG00000000640	Egr2	Up		Up
ENSRNOG00000000653	Nr5a2	Up		Up
ENSRNOG00000000658	Acacb	Down		Down
ENSRNOG00000000691	Foxn4	Down	Down	
ENSRNOG00000000693	Svop	Up	Up	
ENSRNOG00000000697	Coro1c	Up		
ENSRNOG00000000699	Selp1g	Down	Down	
ENSRNOG00000000700	Tmem119	Down	Down	
ENSRNOG00000000704	Cmklr1		Down	
ENSRNOG00000000708	Sgsm1	Down		
ENSRNOG00000000720	MGC95208	Up	Up	
ENSRNOG00000000763	RT1-M3-1	Up		Up
ENSRNOG00000000767	Ubd	Up	Up	Up
ENSRNOG00000000777	RT1-S3	Up		Up
ENSRNOG00000000779	Polr1h	Up		
ENSRNOG00000000781	Rnf39		Down	Up
ENSRNOG00000000795	RT1-N3	Up		Up
ENSRNOG00000000802	Tbc1d32	Down		
ENSRNOG00000000805	Gja1	Up	Up	Up
ENSRNOG00000000811	Pkib	Up		Up
ENSRNOG00000000826	Flot1	Up		
ENSRNOG00000000827	Ier3			Up
ENSRNOG00000000840	Atp6v1g2	Down		Down
ENSRNOG00000000842	Ddah2	Down	Down	
ENSRNOG00000000860	Vwa7		Down	
ENSRNOG00000000867	Vars1	Up		

ENSRNOG00000000869	ENSRNOG00000000869	Down		
ENSRNOG00000000875	ENSRNOG00000000875	Down		
ENSRNOG00000000885	Auts2		Down	
ENSRNOG00000000886	Caln1	Down		
ENSRNOG00000000889	AABR07011057.1		Down	
ENSRNOG00000000891	Zfp958l1	Down		
ENSRNOG00000000894	Fry	Down	Down	
ENSRNOG00000000900	Tpst1		Down	
ENSRNOG00000000902	Hsph1	Up		
ENSRNOG00000000906	Medag			Up
ENSRNOG00000000907	Alox5ap	Down	Down	
ENSRNOG00000000909	Usp11	Up		Up
ENSRNOG00000000918	Zbed5	Up		Up
ENSRNOG00000000924	Slc7a1	Up		Up
ENSRNOG00000000937	Slc46a3	Down		
ENSRNOG00000000967	Aacs	Up		Up
ENSRNOG00000000983	Zfp394	Up		
ENSRNOG00000000991	Arpc1b	Up		
ENSRNOG00000000999	Smurf1	Up		
ENSRNOG00000001005	Fcer2	Up		Up
ENSRNOG00000001006	Nptx2	Up		Up
ENSRNOG00000001030	Tsc22d1	Up		Up
ENSRNOG00000001036	Rsph10b	Down	Down	
ENSRNOG00000001059	Usp42	Up		
ENSRNOG00000001069	Elavl1	Up		
ENSRNOG00000001073	Mtrfr	Down		
ENSRNOG00000001074	Mphosph9	Down		
ENSRNOG00000001082	Abcb9	Down		
ENSRNOG00000001091	Hip1r	Up		Up
ENSRNOG00000001092	Kl	Down		Down
ENSRNOG00000001104	Foxk1	Up		
ENSRNOG00000001111	Brca2	Down	Down	
ENSRNOG00000001120	Med13l	Up		
ENSRNOG00000001124	Rnft2		Down	
ENSRNOG00000001128	Tesc	Down	Down	

ENSRNOG000000001130	Nos1	Down	Down	
ENSRNOG000000001141	Srrm4	Down		
ENSRNOG000000001143	Cit	Down		
ENSRNOG000000001158	Abcg1	Up		Up
ENSRNOG000000001181	Wdr4	Up		
ENSRNOG000000001187	Oasl	Up	Up	Up
ENSRNOG000000001189	Sik1	Up		Up
ENSRNOG000000001198	Fam222a	Down		
ENSRNOG000000001210	Pwp2	Up		
ENSRNOG000000001215	Cfap410	Down		
ENSRNOG000000001217	Lrrc3		Down	Up
ENSRNOG000000001229	Col18a1			Up
ENSRNOG000000001249	Col6a1	Down	Down	
ENSRNOG000000001250	Lfng	Down	Down	
ENSRNOG000000001252	Chst12	Down	Down	
ENSRNOG000000001254	Col6a2	Down	Down	
ENSRNOG000000001255	ENSRNOG000000001255	Up		
ENSRNOG000000001261	Ftcd	Down		
ENSRNOG000000001265	Mad11l	Down		
ENSRNOG000000001270	Hvcn1		Down	
ENSRNOG000000001295	S100b	Down		
ENSRNOG000000001302	Adora2a	Up		Up
ENSRNOG000000001312	Pdgfa	Up		Up
ENSRNOG000000001313	Gnaz	Down		
ENSRNOG000000001350	Naa25	Up		
ENSRNOG000000001351	Trafd1	Up	Up	Up
ENSRNOG000000001369	Oasl1a	Up	Up	Up
ENSRNOG000000001374	Rasal1		Down	Up
ENSRNOG000000001375	Gal3st4		Down	
ENSRNOG000000001414	Serpine1	Up		Up
ENSRNOG000000001416	Vgf	Up		Up
ENSRNOG000000001419	Cldn15	Down	Down	
ENSRNOG000000001425	Sh2b2	Up		Up
ENSRNOG000000001431	Rasa4	Up		Up
ENSRNOG000000001435	Ssc4d	Down		

ENSRNOG000000001436	Ywhag	Up		
ENSRNOG000000001452	Fzd9	Down		
ENSRNOG000000001456	Nup153	Up		
ENSRNOG000000001476	Cldn4	Up		Up
ENSRNOG000000001480	Ncf1	Down		
ENSRNOG000000001506	Tmem35a	Down	Down	
ENSRNOG000000001514	Cdca7	Up	Up	Up
ENSRNOG000000001517	Pdk1	Down	Down	
ENSRNOG000000001518	Itga6	Up		
ENSRNOG000000001527	Cd80	Up	Up	Up
ENSRNOG000000001544	Cyrr1	Down	Down	
ENSRNOG000000001554	RGD1563888	Up		Up
ENSRNOG000000001555	Btg3	Up		
ENSRNOG000000001557	Cxadr	Up		Up
ENSRNOG000000001573	Usp25	Up	Up	
ENSRNOG000000001581	Hoxd10	Down		
ENSRNOG000000001582	Bach1	Up	Up	Up
ENSRNOG000000001585	Nrip1	Up		
ENSRNOG000000001607	Adamts1	Up		Up
ENSRNOG000000001623	Zbtb21	Up		
ENSRNOG000000001647	Ets2	Up		Up
ENSRNOG000000001652	Erg			Up
ENSRNOG000000001684	Ripply3	Down	Down	
ENSRNOG000000001686	Hlcs	Down	Down	
ENSRNOG000000001691	Cldn14	Down		
ENSRNOG000000001704	Runx1	Up		Up
ENSRNOG000000001707	Vwa5b2	Down		
ENSRNOG000000001713	LOC100360218	Up	Up	Up
ENSRNOG000000001728	Fam43a	Up		
ENSRNOG000000001736	Bdh1	Down		
ENSRNOG000000001739	Meltf		Down	
ENSRNOG000000001758	Dynlt2b	Down	Down	
ENSRNOG000000001765	Slc51a	Down		
ENSRNOG000000001770	Ehhadh	Down		
ENSRNOG000000001776	Muc20	Down	Down	

ENSRNOG000000001796	Dgkg	Down	Down	Down
ENSRNOG000000001804	Itpr2	Down	Down	
ENSRNOG000000001807	Sspn	Down	Down	
ENSRNOG000000001809	Hrg	Down		
ENSRNOG000000001827	Masp1	Down	Down	
ENSRNOG000000001830	Arntl2	Up		
ENSRNOG000000001843	Bcl6	Up		
ENSRNOG000000001854	Tmtc1	Down	Down	
ENSRNOG000000001869	Rab44	Up		
ENSRNOG000000001874	Slc7a4	Down	Down	Down
ENSRNOG000000001877	Med15	Up		
ENSRNOG000000001891	Gnb1l		Down	
ENSRNOG000000001924	Tp63	Down	Down	
ENSRNOG000000001953	Bace2			Up
ENSRNOG000000001959	Mx1	Up	Up	Up
ENSRNOG000000001962	Fam3b		Down	
ENSRNOG000000001963	Mx2	Up	Up	Up
ENSRNOG000000001964	Cd47	Up		
ENSRNOG000000001979	Rcan1	Up		Up
ENSRNOG000000001984	Kcne1	Down	Down	
ENSRNOG000000001986	Fam243a	Down	Down	
ENSRNOG000000002014	Stap1	Down	Down	
ENSRNOG000000002026	Dnajc28	Down		Down
ENSRNOG000000002032	Ifngr2	Up		
ENSRNOG000000002057	Slc10a6	Down	Down	
ENSRNOG000000002072	Eva1c			Up
ENSRNOG000000002074	Rest	Up		
ENSRNOG000000002080	Urb1	Up		
ENSRNOG000000002089	Ccng2	Up		
ENSRNOG000000002093	Tgfbr3	Up		
ENSRNOG000000002097	Rasl11b		Down	Up
ENSRNOG000000002139	Cracd	Down	Down	
ENSRNOG000000002141	Cd200			Up
ENSRNOG000000002158	Ibsp	Up	Up	
ENSRNOG000000002174	Cwh43	Down		

ENSRNOG00000002177	Gnpda2	Up		
ENSRNOG00000002188	Hpse		Down	Up
ENSRNOG00000002192	Rell1	Up		Up
ENSRNOG00000002202	Sowahb	Up		
ENSRNOG00000002208	Shroom3	Up		Up
ENSRNOG00000002215	Mylk	Down		
ENSRNOG00000002218	Stbd1	Up	Up	Up
ENSRNOG00000002227	Kit	Down		
ENSRNOG00000002229	Adcy5	Down	Down	
ENSRNOG00000002232	Aff1	Up		
ENSRNOG00000002247	Nup54	Up		
ENSRNOG00000002265	Casr	Down	Down	Down
ENSRNOG00000002267	Chic2	Up		
ENSRNOG00000002273	Naaa	Down	Down	
ENSRNOG00000002278	Tec	Up		Up
ENSRNOG00000002285	LOC100909732	Down		
ENSRNOG00000002289	Ildr1	Down		
ENSRNOG00000002294	Snx29	Down		
ENSRNOG00000002302	Corin	Down		
ENSRNOG00000002303	Kcnj12	Down		Down
ENSRNOG00000002305	Slc15a2	Down		Down
ENSRNOG00000002309	Hlx			Up
ENSRNOG00000002312	Atp10d	Up		Up
ENSRNOG00000002318	Limch1	Down		
ENSRNOG00000002322	RGD1310587	Down		
ENSRNOG00000002331	Aldh3a1	Down		
ENSRNOG00000002336	Gabra4			Up
ENSRNOG00000002341	Trim25	Up	Up	
ENSRNOG00000002342	Aldh3a2	Down		
ENSRNOG00000002343	Uchl1	Down		
ENSRNOG00000002350	Eaf2	Down		
ENSRNOG00000002361	Prkg2		Down	
ENSRNOG00000002372	Sgcd	Down		Down
ENSRNOG00000002376	Clasp1	Up		
ENSRNOG00000002381	Bmp3	Down		

ENSRNOG00000002385	Prg4		Down	
ENSRNOG00000002387	ENSRNOG00000002387	Down	Down	
ENSRNOG00000002393	Eprs	Up		
ENSRNOG00000002396	Serpinb8	Up	Up	
ENSRNOG00000002403	Niban1	Up		Up
ENSRNOG00000002408	Rbm47	Down		
ENSRNOG00000002418	Tgfb2			Up
ENSRNOG00000002425	Pctp	Down		
ENSRNOG00000002434	Tmem100	Down	Down	
ENSRNOG00000002450	Rrp15	Up		
ENSRNOG00000002454	Rnf2	Up		
ENSRNOG00000002459	Fbxo40	Down	Down	Down
ENSRNOG00000002470	Ifi47	Up		Up
ENSRNOG00000002471	Polq	Down		Down
ENSRNOG00000002487	ENSRNOG00000002487			Up
ENSRNOG00000002496	Stxbp5l			Down
ENSRNOG00000002520	Litaf	Up		Up
ENSRNOG00000002524	Gpr37	Down	Down	
ENSRNOG00000002525	Ptgs2		Down	Up
ENSRNOG00000002529	ENSRNOG00000002529	Up		
ENSRNOG00000002540	Rhoh	Up		
ENSRNOG00000002549	Htr5b	Down		
ENSRNOG00000002568	Socs1	Up		Up
ENSRNOG00000002572	Cacybp	Up	Up	
ENSRNOG00000002593	Esrrg	Down		Down
ENSRNOG00000002607	Sox9	Up		Up
ENSRNOG00000002610	Carhsp1	Up		
ENSRNOG00000002612	Ddx52	Up		Up
ENSRNOG00000002624	Edaradd	Down	Down	
ENSRNOG00000002643	Ugdh	Up		
ENSRNOG00000002653	Kcnk2	Down	Down	
ENSRNOG00000002657	Pla2g4a	Down	Down	
ENSRNOG00000002659	Ciita	Up	Up	
ENSRNOG00000002662	ENSRNOG00000002662	Up		
ENSRNOG00000002667	Lamc2	Up	Up	Up

ENSRNOG00000002680	Lamc1	Up		Up
ENSRNOG00000002711	Nuf2	Down		
ENSRNOG00000002722	Sec14l1	Down		
ENSRNOG00000002750	Rc3h1	Up		
ENSRNOG00000002751	Zdhhc15	Down		
ENSRNOG00000002753	Adam11		Down	
ENSRNOG00000002778	Aatf	Up		
ENSRNOG00000002792	Cxcl2	Up		Up
ENSRNOG00000002794	Selp	Up		Up
ENSRNOG00000002802	Cxcl1	Up		Up
ENSRNOG00000002810	Gfpt2		Down	Up
ENSRNOG00000002812	Lhx1	Down		
ENSRNOG00000002813	Dars2	Down		
ENSRNOG00000002820	LOC24906	Down	Down	
ENSRNOG00000002828	Tob1	Down		
ENSRNOG00000002831	Wfikkn2	Down		
ENSRNOG00000002843	Cxcl6	Up		Up
ENSRNOG00000002844	ENSRNOG00000002844	Up		
ENSRNOG00000002866	Rassf6	Down		
ENSRNOG00000002890	Ankrd45	Down		
ENSRNOG00000002894	Mnt	Up		
ENSRNOG00000002905	Ccdc103	Down		
ENSRNOG00000002906	Nr1i2	Down	Down	Down
ENSRNOG00000002916	Ca4	Down		
ENSRNOG00000002919	Gfap		Down	Up
ENSRNOG00000002930	Ppl	Up		Up
ENSRNOG00000002932	Wdr19	Down		Down
ENSRNOG00000002936	Golt1a	Down		
ENSRNOG00000002949	Pgs1	Up		
ENSRNOG00000002969	Itpkb		Down	
ENSRNOG00000002978	Faslg	Up		
ENSRNOG00000002980	Tsr1	Up		
ENSRNOG00000002983	Nfix	Up	Up	
ENSRNOG00000002986	Efhc2	Down		
ENSRNOG00000003013	Rpgr	Down		

ENSRNOG00000003018	Olfml2b		Down	
ENSRNOG00000003025	AABR07039336.2	Down	Down	
ENSRNOG00000003028	Dnah17	Up		Up
ENSRNOG00000003031	Atp2b4	Down		Down
ENSRNOG00000003059	Optc		Down	
ENSRNOG00000003068	Mrnip	Down		
ENSRNOG00000003069	Cd38	Up		Up
ENSRNOG00000003081	ENSRNOG00000003081	Down		
ENSRNOG00000003088	Arhgap31			Up
ENSRNOG00000003095	Fgfbp1		Down	Up
ENSRNOG00000003104	Trpv2			Up
ENSRNOG00000003108	Acbd4	Down	Down	
ENSRNOG00000003114	B4galt4	Up		Up
ENSRNOG00000003120	Prelp		Down	
ENSRNOG00000003121	Rtn4rl1	Down		
ENSRNOG00000003123	Rpa1	Down		
ENSRNOG00000003144	Gpre5c	Down		
ENSRNOG00000003147	Sqstm1	Up		
ENSRNOG00000003151	Bfar	Up		
ENSRNOG00000003164	Pla2g10	Down		Down
ENSRNOG00000003178	ENSRNOG00000003178	Down		
ENSRNOG00000003183	Fmod	Down		
ENSRNOG00000003187	ENSRNOG00000003187		Down	
ENSRNOG00000003195	Caskin1	Down	Down	
ENSRNOG00000003201	Rps4x	Up		Up
ENSRNOG00000003205	Ldb2	Down	Down	
ENSRNOG00000003207	Fmnl1	Down		Down
ENSRNOG00000003209	ENSRNOG00000003209	Down	Down	
ENSRNOG00000003217	Lgals3bp	Up	Up	Up
ENSRNOG00000003218	Zfp286a	Down		
ENSRNOG00000003248	Mpzl1		Down	Up
ENSRNOG00000003262	Cacng4	Down		
ENSRNOG00000003278	Map3k14	Up		
ENSRNOG00000003283	Rcsd1		Down	
ENSRNOG00000003288	Cacng5	Down		Down

ENSRNOG00000003300	Btg2	Up		Up
ENSRNOG00000003332	Nt5m	Down		
ENSRNOG00000003334	Klhl21	Up		Up
ENSRNOG00000003338	Pmp22		Down	Up
ENSRNOG00000003348	Rasd1	Up		Up
ENSRNOG00000003357	Col3a1	Down		
ENSRNOG00000003365	Cadm3	Down	Down	
ENSRNOG00000003386	Rbfox3		Down	
ENSRNOG00000003388	Cenpf	Down		Down
ENSRNOG00000003400	Fmo4	Down	Down	Down
ENSRNOG00000003439	Il15	Up		
ENSRNOG00000003442	Adora1			Up
ENSRNOG00000003453	Lypd1	Up		Up
ENSRNOG00000003463	Srebfl	Up		Up
ENSRNOG00000003479	Rnf150	Up		
ENSRNOG00000003486	Mnda	Up		Up
ENSRNOG00000003510	Fmo2	Down		Down
ENSRNOG00000003512	Gabra1	Down		
ENSRNOG00000003533	Cln4	Down		
ENSRNOG00000003538	Adamts4	Up		Up
ENSRNOG00000003546	Tnfrsf12a	Up		Up
ENSRNOG00000003559	Ccdc112	Up		
ENSRNOG00000003567	Ppox	Down		
ENSRNOG00000003587	ENSRNOG00000003587	Down		
ENSRNOG00000003599	Utp3	Up		
ENSRNOG00000003616	Grem2		Down	Up
ENSRNOG00000003629	Nvl	Up		
ENSRNOG00000003634	Zfp354a	Down	Down	
ENSRNOG00000003649	Qsox1		Down	Up
ENSRNOG00000003666	Jchain		Down	Up
ENSRNOG00000003669	Myocd	Down		
ENSRNOG00000003687	Rgs2		Down	Up
ENSRNOG00000003704	Fam184b	Down		
ENSRNOG00000003707	Zmym3	Down		
ENSRNOG00000003715	ENSRNOG00000003715		Down	

ENSRNOG00000003716	Batf3	Up		Up
ENSRNOG00000003722	Dusp27	Down		
ENSRNOG00000003736	Col5a2		Down	
ENSRNOG00000003740	Gpa33	Down	Down	
ENSRNOG00000003745	Atf3	Up		Up
ENSRNOG00000003748	ENSRNOG00000003748	Down		
ENSRNOG00000003784	Rilp	Down		
ENSRNOG00000003785	Usp43	Up		
ENSRNOG00000003794	Nmral1	Down	Down	
ENSRNOG00000003800	Rgs9			Up
ENSRNOG00000003802	Pttg1	Down		
ENSRNOG00000003807	Wnt9b		Down	Up
ENSRNOG00000003809	ENSRNOG00000003809	Up		Up
ENSRNOG00000003815	Slc25a11	Down		
ENSRNOG00000003832	Vash2		Down	
ENSRNOG00000003835	Slc43a2	Down		
ENSRNOG00000003870	C1qtnf2	Down	Down	
ENSRNOG00000003878	Thsd7b	Down		
ENSRNOG00000003884	Acmsd	Down		
ENSRNOG00000003890	Nap111	Up		
ENSRNOG00000003895	Rgs1			Up
ENSRNOG00000003897	Colla1	Down		
ENSRNOG00000003899	Ka11	Down	Down	
ENSRNOG00000003917	Uck2	Up		
ENSRNOG00000003924	Pi4k2b	Up		
ENSRNOG00000003927	Cd55			Up
ENSRNOG00000003950	Lvrn	Up		
ENSRNOG00000003954	Il2rg	Up		Up
ENSRNOG00000003956	Arhgap6	Down	Down	
ENSRNOG00000003969	Fam20a		Down	Up
ENSRNOG00000003972	Tshr	Down		
ENSRNOG00000003979	Zranb3	Down		
ENSRNOG00000003984	ENSRNOG00000003984		Down	
ENSRNOG00000003988	Dnajc27	Down		
ENSRNOG00000003998	Sgca	Down		

ENSRNOG00000003999	Adcy3	Down	Down	
ENSRNOG00000004003	Dusp10	Up		
ENSRNOG00000004006	Dnajb9	Up		
ENSRNOG00000004013	Grip1		Down	Up
ENSRNOG00000004018	Tdrd5			Up
ENSRNOG00000004019	Phlda1	Up		Up
ENSRNOG00000004022	Klhdc9	Down	Down	
ENSRNOG00000004029	Nectin4		Down	
ENSRNOG00000004030	Nphs2			Up
ENSRNOG00000004062	C4bpa	Up		
ENSRNOG00000004085	Tcaim	Down		
ENSRNOG00000004089	Enpp2	Down		
ENSRNOG00000004090	LOC100361025		Up	
ENSRNOG00000004100	Trib1	Up		Up
ENSRNOG00000004104	Zkscan7			Down
ENSRNOG00000004124	Grpr	Down	Down	
ENSRNOG00000004127	Cep170	Up		
ENSRNOG00000004133	ENSRNOG00000004133	Up		
ENSRNOG00000004146	Coro7	Down		
ENSRNOG00000004147	Abca8a	Down		
ENSRNOG00000004192	Arhgap30	Up		
ENSRNOG00000004226	Irak3	Up		
ENSRNOG00000004242	Pole2	Down		
ENSRNOG00000004258	Chst7		Down	
ENSRNOG00000004273	Ifitm1			Up
ENSRNOG00000004276	Itga3	Up		Up
ENSRNOG00000004284	Btg1	Up		Up
ENSRNOG00000004298	Dpys	Down		
ENSRNOG00000004303	Timp3		Down	
ENSRNOG00000004305	Abl2	Up		
ENSRNOG00000004307	Tor3a	Up	Up	Up
ENSRNOG00000004310	Caskin2	Down		
ENSRNOG00000004311	Gpr182	Up		Up
ENSRNOG00000004312	Tmbim4	Up		
ENSRNOG00000004317	Vipr2	Down		

ENSRNOG00000004322	ENSRNOG00000004322		Down	
ENSRNOG00000004330	Chrdl1	Down		
ENSRNOG00000004332	Egfr	Up		Up
ENSRNOG00000004345	Daam1	Up		
ENSRNOG00000004346	Notch3	Down	Down	
ENSRNOG00000004356	Lrrc52	Down		
ENSRNOG00000004359	Wars1	Up	Up	
ENSRNOG00000004361	Parp10	Up		Up
ENSRNOG00000004367	Elk3		Down	Up
ENSRNOG00000004373	Ddx39a	Up		
ENSRNOG00000004392	Aatk	Down	Down	
ENSRNOG00000004393	Fcamr	Up		
ENSRNOG00000004400	Avpr1a		Down	
ENSRNOG00000004404	Tac4		Down	Up
ENSRNOG00000004409	Sash3	Down		
ENSRNOG00000004425	Klhdc1	Down		
ENSRNOG00000004437	Map2k6	Down	Down	
ENSRNOG00000004442	Dglucy	Down		
ENSRNOG00000004470	Il24	Up		Up
ENSRNOG00000004473	Ppargc1a	Down		
ENSRNOG00000004487	Nek2	Down		Down
ENSRNOG00000004500	Myc	Up		Up
ENSRNOG00000004503	L3hypdh	Down	Down	
ENSRNOG00000004516	Itgbl1	Down	Down	
ENSRNOG00000004517	Igf1	Down		Down
ENSRNOG00000004524	Desi2	Up		
ENSRNOG00000004537	Rxrg	Down		
ENSRNOG00000004540	Clec3b	Down	Down	
ENSRNOG00000004542	Ttc8	Down	Down	
ENSRNOG00000004554	Dcn		Down	
ENSRNOG00000004566	Arhgef15	Down	Down	
ENSRNOG00000004571	Cdin1	Down		
ENSRNOG00000004575	Il1a	Up		
ENSRNOG00000004588	Zbed4	Up		
ENSRNOG00000004589	Galnt16	Down		

ENSRNOG000000004610	Lum	Down		
ENSRNOG000000004616	Npm1	Up		
ENSRNOG000000004624	Rnd3	Up		Up
ENSRNOG000000004626	Slc34a2	Up	Up	Up
ENSRNOG000000004640	Mtfp1	Down		Down
ENSRNOG000000004642	Lmx1a	Up		
ENSRNOG000000004645	Galnt5	Down		
ENSRNOG000000004649	Il1b	Up		Up
ENSRNOG000000004650	Begain		Down	
ENSRNOG000000004659	Crel2		Up	
ENSRNOG000000004667	Gen1	Down		Down
ENSRNOG000000004668	Slc25a35	Down		
ENSRNOG000000004672	Sec14l2	Down		
ENSRNOG000000004677	Zeb2	Up	Up	
ENSRNOG000000004682	Parpbbp	Down		
ENSRNOG000000004687	Thbd	Down	Down	
ENSRNOG000000004688	Rbfox2	Up		
ENSRNOG000000004697	Baalc	Up		Up
ENSRNOG000000004699	Fibin	Down	Down	
ENSRNOG000000004700	Nxt1	Up		
ENSRNOG000000004704	Dcstamp	Down	Down	
ENSRNOG000000004708	Aard		Down	
ENSRNOG000000004709	Foxn3	Up		Up
ENSRNOG000000004726	Mapkapk2	Up		Up
ENSRNOG000000004730	Meis2		Down	
ENSRNOG000000004743	Cdcp1	Up		Up
ENSRNOG000000004744	Lratd2	Up		
ENSRNOG000000004754	Tc2n		Down	
ENSRNOG000000004756	Syt2			Up
ENSRNOG000000004757	Tmem158			Up
ENSRNOG000000004763	Sirpa	Up		Up
ENSRNOG000000004794	Rtn1		Down	
ENSRNOG000000004795	Pof1b		Down	
ENSRNOG000000004812	Sema6d	Down		
ENSRNOG000000004819	Porcn		Down	

ENSRNOG00000004821	Sntb1	Up		Up
ENSRNOG00000004863	Mpped2	Down	Down	
ENSRNOG00000004865	Pkd11l	Up		Up
ENSRNOG00000004870	Dyrk3	Up		Up
ENSRNOG00000004889	Vangl2	Down		
ENSRNOG00000004899	Kcns3	Up		Up
ENSRNOG00000004917	Rasal2	Up		
ENSRNOG00000004928	Sntg2	Up	Up	
ENSRNOG00000004962	Prdm4	Up		
ENSRNOG00000004966	Slc38a11	Down		
ENSRNOG00000004972	Upp1	Up		Up
ENSRNOG00000005008	Angpt4	Down	Down	Down
ENSRNOG00000005012	Utp14a	Up		
ENSRNOG00000005034	Arhgef25	Down	Down	
ENSRNOG00000005041	Crip2		Down	
ENSRNOG00000005046	Tspan13		Down	
ENSRNOG00000005063	Atl1			Up
ENSRNOG00000005082	Irf6	Up		Up
ENSRNOG00000005093	Lgr6	Down		Down
ENSRNOG00000005094	C1qtnf7	Down	Down	
ENSRNOG00000005096	Bzw2	Up		Up
ENSRNOG00000005109	Rprm	Up		Up
ENSRNOG00000005122	Uvssa	Down	Down	
ENSRNOG00000005132	Slc52a3	Down		Down
ENSRNOG00000005147	Ccdc157	Down		
ENSRNOG00000005176	ENSRNOG00000005176		Down	
ENSRNOG00000005185	ENSRNOG00000005185			Up
ENSRNOG00000005214	Plek	Up		
ENSRNOG00000005246	Tfap2c		Down	Up
ENSRNOG00000005248	Slc1a4	Up		
ENSRNOG00000005269	Srl	Down		Down
ENSRNOG00000005278	Trhde	Down		
ENSRNOG00000005286	Coch		Down	
ENSRNOG00000005302	Slc2a9	Down		
ENSRNOG00000005307	Slc4a10	Down		

ENSRNOG00000005309	Scn8a	Down		Down
ENSRNOG00000005330	Crebbp	Up		
ENSRNOG00000005332	Csdc2	Down	Down	
ENSRNOG00000005336	Prss27		Down	
ENSRNOG00000005347	Fjx1	Up		
ENSRNOG00000005352	ENSRNOG00000005352	Up		Up
ENSRNOG00000005359	Csrnp3	Down		
ENSRNOG00000005365	Kcnip1		Down	
ENSRNOG00000005367	Slc12a1	Down		
ENSRNOG00000005374	Lyar	Up		
ENSRNOG00000005378	Gna15	Down	Down	
ENSRNOG00000005391	Prex2	Down	Down	
ENSRNOG00000005393	Sertad2	Up		
ENSRNOG00000005404	Rasgrp1	Up		
ENSRNOG00000005410	Cdca7l	Down		Down
ENSRNOG00000005413	Creb3l1	Up		Up
ENSRNOG00000005433	Shq1	Up	Up	
ENSRNOG00000005450	Lsm11	Up		
ENSRNOG00000005451	Dnah11	Down		
ENSRNOG00000005465	Kcnmb1		Down	
ENSRNOG00000005479	Slc1a2	Up		
ENSRNOG00000005480	Ybx3	Up		Up
ENSRNOG00000005502	Ankib1	Up		
ENSRNOG00000005506	Arhgef5	Up		
ENSRNOG00000005524	Pno1	Up		
ENSRNOG00000005530	Rps6kl1	Down	Down	
ENSRNOG00000005542	Apob			Up
ENSRNOG00000005565	Traf3ip3	Down	Down	
ENSRNOG00000005572	RGD1306782	Down		
ENSRNOG00000005573	Ntn4	Down	Down	
ENSRNOG00000005574	Adamts8			Up
ENSRNOG00000005575	Abi3	Down	Down	
ENSRNOG00000005578	Zbtb44	Up		
ENSRNOG00000005580	Itgb4	Up		Up
ENSRNOG00000005600	Nr4a2		Down	Up

ENSRNOG00000005608	Tead4			Up
ENSRNOG00000005615	Gadd45a	Up		Up
ENSRNOG00000005619	Misp3	Up		
ENSRNOG00000005620	Lcp2	Up		
ENSRNOG00000005639	Ar	Down		
ENSRNOG00000005650	Pgf		Down	Up
ENSRNOG00000005660	Fam110c	Up		Up
ENSRNOG00000005667	Astn1		Down	
ENSRNOG00000005687	ENSRNOG00000005687	Up		
ENSRNOG00000005690	Lmcd1			Up
ENSRNOG00000005691	Rnf32	Down		
ENSRNOG00000005695	Mgp	Up		Up
ENSRNOG00000005718	LOC100911956	Up		
ENSRNOG00000005726	Pclo	Down		Down
ENSRNOG00000005727	Galnt3	Up	Up	
ENSRNOG00000005730	Pcmtd1	Down		
ENSRNOG00000005731	Birc3	Up		Up
ENSRNOG00000005734	Ssuh2	Down		
ENSRNOG00000005743	Dapl1	Down	Down	
ENSRNOG00000005749	Foxred2	Up	Up	
ENSRNOG00000005770	Sostdc1	Down	Down	Down
ENSRNOG00000005772	Hacd4	Down	Down	
ENSRNOG00000005792	Ankef1	Down		
ENSRNOG00000005794	Slc10a1	Down		
ENSRNOG00000005798	Cav3		Down	
ENSRNOG00000005806	Oxtr	Down	Down	
ENSRNOG00000005809	Arhgdib		Down	Up
ENSRNOG00000005823	Utp20	Up		
ENSRNOG00000005849	Aco1	Down		
ENSRNOG00000005850	Gdap1	Up		
ENSRNOG00000005871	Il1rn	Up		Up
ENSRNOG00000005874	Tle2		Down	
ENSRNOG00000005879	Maml2	Up		Up
ENSRNOG00000005882	Tle1	Up		
ENSRNOG00000005900	Slc2a6	Up		Up

ENSRNOG00000005905	Pde4b	Up		Up
ENSRNOG00000005906	LOC120093085	Down	Down	
ENSRNOG00000005907	Rad18	Up		Up
ENSRNOG00000005917	Pawr	Up		
ENSRNOG00000005929	Them6		Down	
ENSRNOG00000005933	Yap1	Up		
ENSRNOG00000005935	A3galt2	Up		Up
ENSRNOG00000005958	Rrbp1	Up		
ENSRNOG00000005960	RGD1311744		Down	
ENSRNOG00000005968	Hoxa2	Down		
ENSRNOG00000005981	Nt5c3a	Up		
ENSRNOG00000005984	Etv6	Up	Up	
ENSRNOG00000005987	Suox	Down		
ENSRNOG00000005988	Arl8a	Up		
ENSRNOG00000005998	Smoc1	Down	Down	Down
ENSRNOG00000006000	Cdk12	Up		
ENSRNOG00000006004	Phc2	Up		Up
ENSRNOG00000006025	Lamb3			Up
ENSRNOG00000006046	Gdf7		Down	
ENSRNOG00000006058	Lypd2			Up
ENSRNOG00000006060	Matn2	Down	Down	
ENSRNOG00000006086	Lynx1	Down	Down	
ENSRNOG00000006094	Cd44	Up		Up
ENSRNOG00000006096	Slc26a7	Down		Down
ENSRNOG00000006103	Tbc1d31	Down		
ENSRNOG00000006116	Hk2	Up		Up
ENSRNOG00000006119	Slc7a15		Down	
ENSRNOG00000006120	Shh	Down	Down	
ENSRNOG00000006139	Stx18	Up		Up
ENSRNOG00000006151	Reg3b	Up		Up
ENSRNOG00000006170	Bach2	Up		
ENSRNOG00000006178	Dync1h1	Up		
ENSRNOG00000006198	Prr11	Down		
ENSRNOG00000006227	Ifih1	Up	Up	Up
ENSRNOG00000006228	Pdia4	Up	Up	

ENSRNOG00000006237	Gpr3711	Up	Up	
ENSRNOG00000006255	Nipal4	Down	Down	
ENSRNOG00000006278	Tspyl5	Down		
ENSRNOG00000006280	Pcsk9		Down	Up
ENSRNOG00000006285	Tlk2	Up		
ENSRNOG00000006304	Mdm2	Up	Up	
ENSRNOG00000006305	Slc38a2	Up		
ENSRNOG00000006314	Zbp1	Up	Up	Up
ENSRNOG00000006324	ENSRNOG00000006324	Down		
ENSRNOG00000006327	Rcc2	Up		
ENSRNOG00000006330	Elf3	Up		Up
ENSRNOG00000006350	Tle6	Down	Down	
ENSRNOG00000006365	Asb15	Down	Down	
ENSRNOG00000006367	Slc5a8	Up		
ENSRNOG00000006368	Lrrn3		Down	
ENSRNOG00000006378	Mga	Up		
ENSRNOG00000006384	Ddx58	Up	Up	
ENSRNOG00000006400	Tbc1d14	Down		
ENSRNOG00000006410	Akap5	Down	Down	
ENSRNOG00000006418	Samhd1	Up	Up	Up
ENSRNOG00000006472	Hspa2	Up		
ENSRNOG00000006483	Heatr5a	Up		
ENSRNOG00000006498	Lrrc69	Up		
ENSRNOG00000006508	Thns12	Down		
ENSRNOG00000006509	Srgap3	Down	Down	
ENSRNOG00000006526	Sema3c	Up		
ENSRNOG00000006532	H3f3b	Up		Up
ENSRNOG00000006543	Bsnd	Down	Down	
ENSRNOG00000006557	Cyfp2	Down		Down
ENSRNOG00000006575	Ccdc96	Down		
ENSRNOG00000006579	Reg3g	Up		Up
ENSRNOG00000006595	Htr3a	Down		
ENSRNOG00000006604	Thy1	Down	Down	
ENSRNOG00000006617	Cntnap2	Down		
ENSRNOG00000006646	Vopp1		Down	

ENSRNOG00000006649	Thrb	Down		
ENSRNOG00000006653	Slc38a4	Down	Down	
ENSRNOG00000006661	Rad51c	Down		
ENSRNOG00000006663	Usp2	Down	Down	
ENSRNOG00000006681	Rdh10	Up	Up	Up
ENSRNOG00000006698	Rab33a	Down		
ENSRNOG00000006709	Pzp		Up	
ENSRNOG00000006727	Dtd2	Down		
ENSRNOG00000006729	Slc24a4	Down		Down
ENSRNOG00000006732	Spo11	Down		
ENSRNOG00000006735	Cdkn2b	Up		Up
ENSRNOG00000006738	Fbxo32	Up		
ENSRNOG00000006740	Castor1	Down		
ENSRNOG00000006761	Sh3gl2	Up	Up	
ENSRNOG00000006767	Cst7	Up		Up
ENSRNOG00000006770	Brd4	Up		
ENSRNOG00000006783	Neb	Down	Down	
ENSRNOG00000006784	Sema4f		Down	
ENSRNOG00000006789	Ddit3	Up		Up
ENSRNOG00000006802	Lrn1	Down		
ENSRNOG00000006824	Hdac11	Down		
ENSRNOG00000006827	Tmem198b	Down	Down	
ENSRNOG00000006828	Baz1a	Up		Up
ENSRNOG00000006855	Padi4		Down	
ENSRNOG00000006859	Insig1	Up		Up
ENSRNOG00000006867	Etv1	Down	Down	
ENSRNOG00000006911	Sptb		Down	
ENSRNOG00000006916	Sardh	Down		
ENSRNOG00000006924	ENSRNOG00000006924	Up		
ENSRNOG00000006930	Casq1			Down
ENSRNOG00000006940	Ncf4	Down	Down	
ENSRNOG00000006946	Arhgap9	Down	Down	
ENSRNOG00000006963	Ctse	Down	Down	
ENSRNOG00000006966	Nfia	Down		
ENSRNOG00000007000	Grhl2	Up		

ENSRNOG00000007012	Ly75	Up	Up	Up
ENSRNOG00000007029	Dnaja1	Up		
ENSRNOG00000007032	Amigo2			Up
ENSRNOG00000007033	Sorcs2		Down	Up
ENSRNOG00000007044	L3mbtl1	Down		
ENSRNOG00000007046	Cfap70	Down	Down	
ENSRNOG00000007060	Plin2	Up		Up
ENSRNOG00000007067	Padi1	Down	Down	
ENSRNOG00000007076	AABR07055919.1	Down		
ENSRNOG00000007089	Lgmn	Up		
ENSRNOG00000007091	Ly6e	Up		Up
ENSRNOG00000007092	Fgb	Up		Up
ENSRNOG00000007098	Gtpbp10	Down		
ENSRNOG00000007100	Ccdc136		Down	Up
ENSRNOG00000007110	Ankrd6	Up		Up
ENSRNOG00000007125	Vps54	Up		
ENSRNOG00000007128	Nop56	Up		Up
ENSRNOG00000007136	Anxa7	Up		Up
ENSRNOG00000007142	B3gat1	Down		
ENSRNOG00000007152	Bhlhe40			Up
ENSRNOG00000007158	Qtrt1	Up		
ENSRNOG00000007159	Ccl2	Up		Up
ENSRNOG00000007164	Cln6	Down		
ENSRNOG00000007178	Cd8a	Up	Up	
ENSRNOG00000007202	Sema3d	Down	Down	
ENSRNOG00000007213	Yars1	Up		
ENSRNOG00000007229	Nr0b2	Down	Down	Down
ENSRNOG00000007230	Kank3		Down	
ENSRNOG00000007234	Cyp51			Up
ENSRNOG00000007237	Id2	Down		
ENSRNOG00000007240	Rrs1	Up		
ENSRNOG00000007241	Fnbp4	Up		
ENSRNOG00000007243	Havcr1	Up		Up
ENSRNOG00000007247	A2ml1		Down	Up
ENSRNOG00000007254	Ttc9	Up		Up

ENSRNOG00000007258	Sbspon	Down		
ENSRNOG00000007266	RGD1311251	Down	Down	
ENSRNOG00000007271	Map3k9	Up		
ENSRNOG00000007281	Flnc		Down	
ENSRNOG00000007284	Slc2a1	Up		Up
ENSRNOG00000007290	Atp1a2	Down	Down	
ENSRNOG00000007300	C1qtnf6	Down		
ENSRNOG00000007302	Fbn1	Down	Down	
ENSRNOG00000007319	Trib3	Up	Up	Up
ENSRNOG00000007320	Fam3d		Down	Up
ENSRNOG00000007329	Frmd6	Up		
ENSRNOG00000007338	Fbln2	Down	Down	
ENSRNOG00000007346	Tamalin		Down	Up
ENSRNOG00000007354	Trpa1		Down	
ENSRNOG00000007364	Rab15	Up		Up
ENSRNOG00000007367	Septin4	Down		
ENSRNOG00000007370	Rnf144a	Down	Down	
ENSRNOG00000007372	Casp1	Up		Up
ENSRNOG00000007378	Acox2	Down		Down
ENSRNOG00000007390	Nfkbia	Up		Up
ENSRNOG00000007395	Baat	Down	Down	
ENSRNOG00000007408	Ebf4	Down	Down	
ENSRNOG00000007412	Dok1	Up		
ENSRNOG00000007415	Ptgs1		Down	Up
ENSRNOG00000007416	Clp1	Up		
ENSRNOG00000007440	Dzank1	Down		
ENSRNOG00000007441	Klhl32	Down		
ENSRNOG00000007445	ENSRNOG00000007445	Down		
ENSRNOG00000007454	Aloxe3	Up		Up
ENSRNOG00000007461	Klhl41	Up		
ENSRNOG00000007477	Edn3	Down	Down	
ENSRNOG00000007495	ENSRNOG00000007495	Down		Down
ENSRNOG00000007508	Lrtm2	Down	Down	Down
ENSRNOG00000007519	Tmem43	Up		
ENSRNOG00000007539	Rsad2	Up	Up	Up

ENSRNOG00000007541	Fhl3		Down	
ENSRNOG00000007545	Angptl4	Up		Up
ENSRNOG00000007546	Asns	Up	Up	
ENSRNOG00000007561	Glb1l2	Down		
ENSRNOG00000007567	Rem1	Down		
ENSRNOG00000007573	Hoxb9	Up		
ENSRNOG00000007574	Padi2		Down	
ENSRNOG00000007582	Zswim4	Up		Up
ENSRNOG00000007583	Pygb	Down	Down	
ENSRNOG00000007584	Ehd4	Up		Up
ENSRNOG00000007590	Eya1	Down		
ENSRNOG00000007591	Slc45a3	Down	Down	
ENSRNOG00000007607	Nr4a1		Down	Up
ENSRNOG00000007610	Gdf11	Down		
ENSRNOG00000007613	C1qtnf5	Down	Down	
ENSRNOG00000007628	Ptp4a3	Down	Down	
ENSRNOG00000007637	Acer2	Down	Down	
ENSRNOG00000007666	Cacnb4	Down		Down
ENSRNOG00000007679	Cyth4	Down		
ENSRNOG00000007682	ENSRNOG00000007682	Down		
ENSRNOG00000007690	Cmpk2	Up	Up	Up
ENSRNOG00000007707	Zfp467	Down		
ENSRNOG00000007713	Tmcc3	Up		
ENSRNOG00000007722	Tlcd3a	Up		Up
ENSRNOG00000007726	Mcam		Down	
ENSRNOG00000007728	Gsdmd	Up		Up
ENSRNOG00000007733	Arhgef9	Down	Down	
ENSRNOG00000007739	Rars1	Up		
ENSRNOG00000007740	Tacstd2		Down	
ENSRNOG00000007748	Tex15	Down		
ENSRNOG00000007752	Zmynd19	Up		
ENSRNOG00000007765	Frzb	Down	Down	
ENSRNOG00000007778	Alox15b		Down	
ENSRNOG00000007793	Pnrc1	Up		Up
ENSRNOG00000007805	Mybl2			Down

ENSRNOG00000007808	Nap115	Down	Down	
ENSRNOG00000007811	Klrb1c	Down		
ENSRNOG00000007814	Kdm3a	Up		
ENSRNOG00000007827	Cox4i2		Down	
ENSRNOG00000007829	Lactb2	Down		
ENSRNOG00000007830	Apold1		Down	Up
ENSRNOG00000007837	Acot11	Down	Down	Down
ENSRNOG00000007839	Slc16a7	Down		Down
ENSRNOG00000007853	Prdm10	Up		
ENSRNOG00000007869	Wscd1	Down		Down
ENSRNOG00000007874	Tamm41	Down		
ENSRNOG00000007882	Ablim2	Down	Down	
ENSRNOG00000007896	Klhl38	Down		
ENSRNOG00000007906	Bub1b	Down		
ENSRNOG00000007907	Tmem178a	Down	Down	
ENSRNOG00000007931	Gucy2d	Down		
ENSRNOG00000007932	Gcm1	Down		
ENSRNOG00000007937	Krit1	Up		
ENSRNOG00000007942	Fscn3	Up		
ENSRNOG00000007947	Fam13a	Down		
ENSRNOG00000007951	Galnt14	Down		
ENSRNOG00000007955	Timp4	Down	Down	
ENSRNOG00000007957	Tspoap1	Down	Down	
ENSRNOG00000007964	Tp53inp1	Up		
ENSRNOG00000007970	Plxnc1	Up	Up	
ENSRNOG00000007972	Rbbp9	Down	Down	
ENSRNOG00000007989	Chst1		Down	Up
ENSRNOG00000007999	Abra	Down	Down	
ENSRNOG00000008000	Syt13	Down	Down	
ENSRNOG00000008012	Abcb1a	Up	Up	
ENSRNOG00000008015	Fos			Up
ENSRNOG00000008022	Apaf1	Up	Up	
ENSRNOG00000008025	Agbl4	Down	Down	
ENSRNOG00000008027	Cavin4	Up		
ENSRNOG00000008034	Tmeff1	Up		

ENSRNOG00000008045	Slamf9	Up	Up	Up
ENSRNOG00000008048	Plscr1	Up		Up
ENSRNOG00000008049	Max	Up		
ENSRNOG00000008053	Atp8a2	Down		
ENSRNOG00000008054	Igsf9	Down	Down	
ENSRNOG00000008061	Nuak1			Up
ENSRNOG00000008082	Rgs6		Down	
ENSRNOG00000008100	Rgs20	Up		
ENSRNOG00000008113	RGD1561149	Up		
ENSRNOG00000008117	Galnt11	Down		
ENSRNOG00000008130	Rergl	Down	Down	
ENSRNOG00000008133	Mfng	Down	Down	
ENSRNOG00000008134	Mefv	Down	Down	
ENSRNOG00000008137	Cdk18	Down		
ENSRNOG00000008144	Irf1	Up		Up
ENSRNOG00000008151	Plscr4	Down	Down	
ENSRNOG00000008159	Msantd3	Up		
ENSRNOG00000008161	Pdzk1ip1	Up	Up	
ENSRNOG00000008168	Wnt5b	Down	Down	
ENSRNOG00000008182	Htra3	Down	Down	
ENSRNOG00000008194	Znfx1	Up	Up	Up
ENSRNOG00000008196	Parp12	Up	Up	Up
ENSRNOG00000008215	Trim47	Up		
ENSRNOG00000008223	Cnr1	Down		Down
ENSRNOG00000008243	Slc43a1	Down		
ENSRNOG00000008257	Mfap2	Down	Down	
ENSRNOG00000008270	Cntrob	Down	Down	
ENSRNOG00000008282	Elf5		Down	Up
ENSRNOG00000008283	B4galt5	Up		Up
ENSRNOG00000008288	Akirin2	Up		
ENSRNOG00000008297	Oser1	Up		
ENSRNOG00000008301	Tagln2	Up		
ENSRNOG00000008312	Stra6			Up
ENSRNOG00000008332	Smo	Down	Down	
ENSRNOG00000008334	Crocc	Down	Down	Down

ENSRNOG00000008337	Gjd2	Down	Down	
ENSRNOG00000008346	Itgb6	Up		Up
ENSRNOG00000008356	Myo5c		Down	
ENSRNOG00000008362	Zfp775	Down		
ENSRNOG00000008376	Slc2a3		Down	Up
ENSRNOG00000008400	Pml	Up	Up	Up
ENSRNOG00000008405	Taco1			Down
ENSRNOG00000008409	Myo1f	Down		
ENSRNOG00000008412	Gprc5a	Up		Up
ENSRNOG00000008415	Nab2		Down	
ENSRNOG00000008421	Klhl5	Down	Down	
ENSRNOG00000008422	Lpo	Up		Up
ENSRNOG00000008425	Nav1	Up		Up
ENSRNOG00000008432	Slc22a5	Down		
ENSRNOG00000008443	Fam234b	Down		
ENSRNOG00000008445	Dact1	Down		
ENSRNOG00000008467	Agbl2	Down	Down	
ENSRNOG00000008478	Mmp13	Up		Up
ENSRNOG00000008479	Slc8a1	Down		Down
ENSRNOG00000008481	Reep1	Down	Down	
ENSRNOG00000008482	Rbms1	Up		
ENSRNOG00000008507	Cradd	Down	Down	
ENSRNOG00000008510	Abtb2	Up		
ENSRNOG00000008515	Tmem45b		Down	
ENSRNOG00000008525	Csf3	Up		
ENSRNOG00000008526	Pdzd3	Down		
ENSRNOG00000008533	Ago2	Up		
ENSRNOG00000008534	Dusp15	Down	Down	
ENSRNOG00000008543	Pdlim2	Down		
ENSRNOG00000008554	Slc9a9	Down		
ENSRNOG00000008560	Ccdc30	Down	Down	
ENSRNOG00000008572	Ppcs	Down		
ENSRNOG00000008587	Tek	Down	Down	
ENSRNOG00000008588	Batf	Up	Up	Up
ENSRNOG00000008592	Barx2	Up		Up

ENSRNOG00000008596	Ttl9	Down		
ENSRNOG00000008600	Syt11	Down	Down	
ENSRNOG00000008602	Steap4	Up		Up
ENSRNOG00000008609	Capn3		Down	
ENSRNOG00000008612	Agbl5	Down		
ENSRNOG00000008618	Tex10	Up		
ENSRNOG00000008619	Agtrap	Down		
ENSRNOG00000008620	Smad3	Up		
ENSRNOG00000008625	Rimkla	Down		
ENSRNOG00000008628	Ica1	Down	Down	
ENSRNOG00000008632	Invs	Down		
ENSRNOG00000008639	Pabpc1	Up		
ENSRNOG00000008656	Snca	Down		
ENSRNOG00000008676	Emp1	Up		Up
ENSRNOG00000008678	Antxr1	Down		
ENSRNOG00000008680	Loxl1	Down	Down	
ENSRNOG00000008696	Nopchap1	Up		
ENSRNOG00000008697	Ccn3	Down	Down	
ENSRNOG00000008706	Tbx3			Up
ENSRNOG00000008713	Slc41a2	Up		
ENSRNOG00000008716	Nefh	Up		Up
ENSRNOG00000008736	Slamf8	Up		Up
ENSRNOG00000008738	Tp53i11			Up
ENSRNOG00000008749	Col5a1		Down	
ENSRNOG00000008757	Tmem218	Down	Down	
ENSRNOG00000008758	Tspan18	Down	Down	
ENSRNOG00000008759	Csf3r	Up		Up
ENSRNOG00000008767	Atg4c	Down		
ENSRNOG00000008781	Erg28	Down		
ENSRNOG00000008785	Klf5	Up		Up
ENSRNOG00000008806	Clip4		Down	
ENSRNOG00000008816	Gpnmb		Down	Up
ENSRNOG00000008831	Hcn2	Down	Down	
ENSRNOG00000008834	Dach1	Down		
ENSRNOG00000008839	Pparg	Down	Down	

ENSRNOG00000008847	Gja3	Down	Down	
ENSRNOG00000008849	Guca2a			Up
ENSRNOG00000008857	Adamts10	Down		
ENSRNOG00000008865	Stac	Down	Down	
ENSRNOG00000008868	Dusp19	Down	Down	
ENSRNOG00000008895	Hnf4a	Down		
ENSRNOG00000008901	Coro2a		Down	Up
ENSRNOG00000008904	Fli1		Down	Up
ENSRNOG00000008915	Prima1	Down	Down	
ENSRNOG00000008931	Slc25a21	Down		
ENSRNOG00000008932	Ncapd3	Down		
ENSRNOG00000008936	Map3k6	Up		Up
ENSRNOG00000008941	Ets1	Up		Up
ENSRNOG00000008943	Penk	Up		Up
ENSRNOG00000008947	Cpz		Down	
ENSRNOG00000008949	Synpo2l	Down	Down	Down
ENSRNOG00000008956	Cdkn2c	Down	Down	
ENSRNOG00000008965	Socs2			Up
ENSRNOG00000008970	Pcdh17	Up	Up	
ENSRNOG00000008971	Hnf4g	Down	Down	
ENSRNOG00000008984	Irak1bp1	Down		
ENSRNOG00000008988	Cyp2d2	Down		
ENSRNOG00000008990	Amotl1	Up		Up
ENSRNOG00000009005	Slco2a1	Down	Down	
ENSRNOG00000009030	Rab19	Up	Up	
ENSRNOG00000009033	Cntn2			Down
ENSRNOG00000009037	Sulf1	Up		Up
ENSRNOG00000009045	Alg6	Down		
ENSRNOG00000009046	Phf13	Up		Up
ENSRNOG00000009052	Igf2bp3		Down	
ENSRNOG00000009066	Thra	Down	Down	
ENSRNOG00000009068	Phlda3	Down	Down	
ENSRNOG00000009069	Tnfaip1	Up		
ENSRNOG00000009084	Rpusd3	Down	Down	
ENSRNOG00000009088	Txnrd1	Up		Up

ENSRNOG00000009094	Nudt4	Down		
ENSRNOG00000009102	Fermt2	Up		
ENSRNOG00000009113	Marcks11	Up		Up
ENSRNOG00000009114	Fam110b	Up		
ENSRNOG00000009117	Otub2	Down		
ENSRNOG00000009131	Zc3h12a	Up		Up
ENSRNOG00000009148	Cyb5rl	Down		
ENSRNOG00000009149	Jam3	Down	Down	
ENSRNOG00000009172	Cpvl	Down		
ENSRNOG00000009181	Dleu7	Down		
ENSRNOG00000009195	Tnks1bp1	Up		
ENSRNOG00000009198	Rab6b	Down	Down	
ENSRNOG00000009204	Il17re	Down	Down	
ENSRNOG00000009211	C3ar1	Down		
ENSRNOG00000009222	Epha2	Up		Up
ENSRNOG00000009225	Copz2	Down	Down	
ENSRNOG00000009227	Aplnr	Down	Down	
ENSRNOG00000009239	Entpd8	Down		Down
ENSRNOG00000009258	Cdk6	Up	Up	
ENSRNOG00000009263	Ifi27	Up		Up
ENSRNOG00000009264	Erc1	Up		
ENSRNOG00000009282	Nub1	Up		
ENSRNOG00000009284	Foxa1			Up
ENSRNOG00000009291	Dnase113		Up	
ENSRNOG00000009296	Snapc1	Up		Up
ENSRNOG00000009299	Adra2c	Down	Down	
ENSRNOG00000009311	Fstl3	Up		
ENSRNOG00000009322	Ccdc126	Down		
ENSRNOG00000009329	Nr1d1	Up		
ENSRNOG00000009334	Knstrn	Down		
ENSRNOG00000009341	Hivep3	Up		Up
ENSRNOG00000009343	Evpl	Down	Down	
ENSRNOG00000009345	Ugt8	Down	Down	
ENSRNOG00000009348	Nos3		Down	Up
ENSRNOG00000009354	Nrarp			Up

ENSRNOG00000009355	Ogfr	Up		
ENSRNOG00000009360	Sh3bp1	Down		
ENSRNOG00000009369	Tor4a	Down	Down	
ENSRNOG00000009370	Tbkbp1			Up
ENSRNOG00000009372	Tacr3	Down	Down	
ENSRNOG00000009381	Mapk6	Up		
ENSRNOG00000009385	Pik3cg	Down		
ENSRNOG00000009388	Sptssb	Down	Down	
ENSRNOG00000009389	Ripk2	Up		Up
ENSRNOG00000009401	Lmo2	Up		Up
ENSRNOG00000009411	Chn2		Down	
ENSRNOG00000009412	Lrch1	Up		Up
ENSRNOG00000009425	Fgf7	Down	Down	
ENSRNOG00000009427	Tbx21	Up		
ENSRNOG00000009433	Mcub	Up		Up
ENSRNOG00000009447	Fam221a	Down		
ENSRNOG00000009450	Hcn4	Up	Up	
ENSRNOG00000009465	Sfrp2	Down	Down	Down
ENSRNOG00000009471	Epsti1	Up		Up
ENSRNOG00000009473	Osbp17	Down		
ENSRNOG00000009481	Ddhd1	Up		
ENSRNOG00000009505	Cd164l2	Down		Down
ENSRNOG00000009513	Akr1b1		Down	Up
ENSRNOG00000009522	ENSRNOG00000009522	Down		Down
ENSRNOG00000009528	Sdcbp2	Up		Up
ENSRNOG00000009530	Uchl3	Up		
ENSRNOG00000009531	Col9a3	Up		
ENSRNOG00000009555	Lrriq3	Down		
ENSRNOG00000009570	Pdxdp	Down		Down
ENSRNOG00000009571	Wipf3		Down	
ENSRNOG00000009580	Lca5	Down		Down
ENSRNOG00000009594	Snai1	Up		
ENSRNOG00000009609	LOC299312	Down		Down
ENSRNOG00000009620	Cybrd1	Down	Down	
ENSRNOG00000009636	Scrn1	Down	Down	

ENSRNOG00000009652	Prkci	Up		
ENSRNOG00000009683	Sdcbp	Up		
ENSRNOG00000009687	ENSRNOG00000009687	Up		Up
ENSRNOG00000009694	Bmp4	Down		
ENSRNOG00000009708	Taslr1	Down	Down	Down
ENSRNOG00000009736	A4galt	Down	Down	Down
ENSRNOG00000009751	Gpx7		Down	
ENSRNOG00000009754	Nampt	Up	Up	Up
ENSRNOG00000009760	Palm	Down		
ENSRNOG00000009772	Kirrel3		Down	
ENSRNOG00000009779	Krt8	Up		Up
ENSRNOG00000009785	Cdkn3	Down		
ENSRNOG00000009787	Efcc1	Down	Down	
ENSRNOG00000009797	Aqp3	Down	Down	
ENSRNOG00000009802	Fam124a	Down		
ENSRNOG00000009803	LOC100362176	Up	Up	
ENSRNOG00000009808	Ift80	Down		
ENSRNOG00000009815	Pnma2	Down		
ENSRNOG00000009822	Tlr2	Up		
ENSRNOG00000009824	Irf2	Up		
ENSRNOG00000009832	Slc39a14	Up		Up
ENSRNOG00000009850	St3gal4			Up
ENSRNOG00000009857	Ftsj3	Up		
ENSRNOG00000009862	Olfm1		Down	
ENSRNOG00000009870	Tmem88	Up		Up
ENSRNOG00000009872	Kcnh2	Down		
ENSRNOG00000009884	Lgals1	Down	Down	
ENSRNOG00000009886	Fkbp14		Down	
ENSRNOG00000009887	Arih1	Up		
ENSRNOG00000009892	Adamts15	Down	Down	
ENSRNOG00000009902	Lrrc46	Down		
ENSRNOG00000009907	Mmp8		Down	
ENSRNOG00000009910	Swap70	Up		
ENSRNOG00000009919	Acod1	Up		Up
ENSRNOG00000009946	Ldlr			Up

ENSRNOG00000009951	Aifl1	Down		
ENSRNOG00000009954	Cacul1	Up		
ENSRNOG00000009955	Plch1	Up		
ENSRNOG00000009956	Wnk1	Down		Down
ENSRNOG00000009957	Slc25a13	Down		
ENSRNOG00000009963	Ctps1	Up		Up
ENSRNOG00000009970	Gsdme	Down		
ENSRNOG00000009997	Erap1	Up		
ENSRNOG00000010018	Clec4a3	Down	Down	
ENSRNOG00000010031	Vtn	Down	Down	
ENSRNOG00000010047	Ddit4l	Up		Up
ENSRNOG00000010050	Stard9	Down	Down	
ENSRNOG00000010053	Calcr	Down	Down	
ENSRNOG00000010058	Spry2	Up		
ENSRNOG00000010060	Panx1	Up		
ENSRNOG00000010063	Htr2a	Down	Down	
ENSRNOG00000010065	Dgkh	Up		
ENSRNOG00000010076	Pkp1	Down	Down	
ENSRNOG00000010077	Smardc3	Down		Down
ENSRNOG00000010078	Spag1	Down	Down	
ENSRNOG00000010079	Ca3	Down		
ENSRNOG00000010096	Azi2	Up		
ENSRNOG00000010105	S100a11	Up		Up
ENSRNOG00000010124	Trim2	Down		
ENSRNOG00000010126	Riox1	Up		
ENSRNOG00000010134	Acot2	Up		
ENSRNOG00000010170	Tubb4b	Up		
ENSRNOG00000010176	Map2k1	Up		
ENSRNOG00000010177	Fancd2os	Down	Down	
ENSRNOG00000010183	Gask1b	Down	Down	
ENSRNOG00000010186	Cdv3	Up		
ENSRNOG00000010208	Timp1	Up		Up
ENSRNOG00000010210	Slc7a11	Up		Up
ENSRNOG00000010214	Scrn2	Down		
ENSRNOG00000010219	Ralgds	Up		Up

ENSRNOG00000010237	Map7d1	Up		Up
ENSRNOG00000010240	Tent5a	Up		Up
ENSRNOG00000010253	Cd163	Down		
ENSRNOG00000010258	Vhl	Up		
ENSRNOG00000010259	Esrrb	Down	Down	
ENSRNOG00000010260	Dixdc1	Down	Down	
ENSRNOG00000010262	Hdc	Up		
ENSRNOG00000010266	Cd180	Down		
ENSRNOG00000010278	Il6	Up		Up
ENSRNOG00000010280	Pde8b	Down	Down	
ENSRNOG00000010301	Eif4e3	Up	Up	
ENSRNOG00000010302	Rasl10b	Down		
ENSRNOG00000010309	Nfyb	Up		
ENSRNOG00000010311	Dzip1	Down	Down	
ENSRNOG00000010325	Ptger3	Up		
ENSRNOG00000010337	Slc13a2	Down		Down
ENSRNOG00000010342	Zfand1	Down	Down	
ENSRNOG00000010344	B4galnt3			Up
ENSRNOG00000010347	Styk1	Up		Up
ENSRNOG00000010350	Rcan2	Down		
ENSRNOG00000010362	Anxa2	Up		Up
ENSRNOG00000010365	Syn1	Up		Up
ENSRNOG00000010389	Ndrg2	Down	Down	
ENSRNOG00000010392	Nrg1	Up		
ENSRNOG00000010397	Agbl3	Down	Down	Down
ENSRNOG00000010410	Serpina3c		Down	
ENSRNOG00000010412	Ccdc180	Up		Up
ENSRNOG00000010417	Nol4l		Down	
ENSRNOG00000010423	Misp		Up	
ENSRNOG00000010430	Tmem40	Up		Up
ENSRNOG00000010438	Cpt1b	Down		
ENSRNOG00000010440	Gnal	Down	Down	Down
ENSRNOG00000010447	Tmod2		Down	
ENSRNOG00000010454	ENSRNOG00000010454	Down	Down	Down
ENSRNOG00000010463	Cpa4	Down		

ENSRNOG00000010475	Casp3	Up		Up
ENSRNOG00000010478	LOC299282		Down	Up
ENSRNOG00000010480	Vstm5	Down	Down	
ENSRNOG00000010489	Samd4a	Up		Up
ENSRNOG00000010497	RGD1305807	Up		
ENSRNOG00000010507	Mmp7	Up		
ENSRNOG00000010513	Tfpi2	Up		Up
ENSRNOG00000010519	Cyp39a1	Down		
ENSRNOG00000010522	Tlr4	Up		Up
ENSRNOG00000010524	Cryab			Up
ENSRNOG00000010529	Thbs2	Down	Down	
ENSRNOG00000010572	Pus7	Up		
ENSRNOG00000010574	Ptpn1	Up		
ENSRNOG00000010594	LOC500124	Up		
ENSRNOG00000010600	Cysrt1	Down		
ENSRNOG00000010602	Birc2	Up	Up	
ENSRNOG00000010603	Gzma	Up		Up
ENSRNOG00000010607	Rnf208	Down		
ENSRNOG00000010626	Sphk1	Up		Up
ENSRNOG00000010629	Nod1	Up	Up	Up
ENSRNOG00000010633	Acs11	Down		
ENSRNOG00000010640	Agtr1b	Down	Down	
ENSRNOG00000010643	Kank2	Down	Down	
ENSRNOG00000010645	Lgals3			Up
ENSRNOG00000010649	Ctnnd2		Down	
ENSRNOG00000010652	Dock6	Down	Down	
ENSRNOG00000010653	Mideas	Up		Up
ENSRNOG00000010655	Mttp	Down		
ENSRNOG00000010665	Ccr7	Up		Up
ENSRNOG00000010666	Ccn5	Up		
ENSRNOG00000010680	Med12l	Down		
ENSRNOG00000010685	Tbx18	Down		
ENSRNOG00000010691	Cmtm3		Down	
ENSRNOG00000010694	Tpbg	Up		Up
ENSRNOG00000010695	Pdgfc	Down		

ENSRNOG00000010701	Depdc1b	Up		
ENSRNOG00000010716	Atoh8	Down		
ENSRNOG00000010756	Tp53	Up		
ENSRNOG00000010765	Vcl	Up		
ENSRNOG00000010775	ENSRNOG00000010775	Up	Up	
ENSRNOG00000010776	Atp13a1	Up		
ENSRNOG00000010777	Tox	Down		
ENSRNOG00000010794	Dennd3	Down		
ENSRNOG00000010797	Esm1			Up
ENSRNOG00000010799	Noct		Down	
ENSRNOG00000010805	Fabp4	Down		
ENSRNOG00000010812	Osbp16	Up		
ENSRNOG00000010824	Parp8	Up		Up
ENSRNOG00000010832	Pdgfrl	Up		Up
ENSRNOG00000010833	Mthfd2	Up	Up	Up
ENSRNOG00000010834	Mpped1	Down		Down
ENSRNOG00000010840	Adamts13	Down	Down	Down
ENSRNOG00000010841	Col8a2	Down	Down	
ENSRNOG00000010861	Atad1	Up		
ENSRNOG00000010868	Rims4	Down		
ENSRNOG00000010875	Fam241a	Up		Up
ENSRNOG00000010880	Gpr27	Up		
ENSRNOG00000010885	Zyg11a	Down		
ENSRNOG00000010887	RGD1309534	Down		
ENSRNOG00000010888	Ankrd33b	Up		
ENSRNOG00000010889	Fbxw7	Up		
ENSRNOG00000010894	Tmem203	Down		
ENSRNOG00000010897	Nek6	Up	Up	
ENSRNOG00000010906	Ccl5	Up	Up	Up
ENSRNOG00000010910	Gmeb1	Up		
ENSRNOG00000010911	Tmem108			Up
ENSRNOG00000010921	Taf1d	Up		
ENSRNOG00000010940	Acad11	Down		
ENSRNOG00000010941	Tifa	Up		Up
ENSRNOG00000010942	Gk5	Up	Up	

ENSRNOG00000010944	Hyou1	Up		
ENSRNOG00000010971	Snx18	Up		Up
ENSRNOG00000010977	Igfbp6		Down	
ENSRNOG00000010983	Otog	Down		Down
ENSRNOG00000010989	Ipo5	Up		
ENSRNOG00000010994	Has1	Up		Up
ENSRNOG00000010997	Ednrb	Up		Up
ENSRNOG00000011014	Copg2	Down		
ENSRNOG00000011015	Hivep2	Up		Up
ENSRNOG00000011016	Slc7a2	Up	Up	
ENSRNOG00000011032	Lhfp12	Up		Up
ENSRNOG00000011039	Gch1	Up		Up
ENSRNOG00000011044	Clmn	Down		
ENSRNOG00000011070	Gnb4	Up		
ENSRNOG00000011107	Pcsk1	Up		Up
ENSRNOG00000011112	Fam161b	Down	Down	
ENSRNOG00000011124	AABR07067267.1	Up	Up	
ENSRNOG00000011130	Calca	Up		Up
ENSRNOG00000011142	Cyb5b	Down		
ENSRNOG00000011184	Slc13a4	Down	Down	Down
ENSRNOG00000011189	Acy1	Down		
ENSRNOG00000011195	Prkra	Down		
ENSRNOG00000011205	Ccl3	Up		Up
ENSRNOG00000011208	Rapsn	Down	Down	
ENSRNOG00000011213	Blm	Down		
ENSRNOG00000011227	Atp1b2	Down	Down	
ENSRNOG00000011228	Layn	Up		
ENSRNOG00000011238	Tiparp			Up
ENSRNOG00000011263	Plac9	Down	Down	
ENSRNOG00000011284	Sgms2	Up		
ENSRNOG00000011287	RGD1564801	Up		
ENSRNOG00000011300	Lama3		Down	Up
ENSRNOG00000011308	Uhrf2	Up		
ENSRNOG00000011311	Papss1	Down		
ENSRNOG00000011316	Fam167a		Down	Up

ENSRNOG00000011346	Ehd2		Down	
ENSRNOG00000011351	Mat1a	Down	Down	
ENSRNOG00000011360	Dkk2		Down	Up
ENSRNOG00000011361	Slc37a4	Down		
ENSRNOG00000011367	Cyp2r1	Down		
ENSRNOG00000011381	Acsbg1	Down		
ENSRNOG00000011394	Kif3c		Down	Up
ENSRNOG00000011398	Trmt61a	Up		
ENSRNOG00000011402	Isg20l2	Up		
ENSRNOG00000011406	Ccl4	Up		
ENSRNOG00000011411	Adgrg6	Up		Up
ENSRNOG00000011424	Cldn23	Down	Down	
ENSRNOG00000011427	Hr	Down		
ENSRNOG00000011440	Ccdc39	Down		
ENSRNOG00000011446	Vill	Down		
ENSRNOG00000011452	Aldoc		Down	
ENSRNOG00000011453	Kif6	Down		
ENSRNOG00000011454	Tbck	Down		
ENSRNOG00000011459	Rhbdf2	Up		Up
ENSRNOG00000011475	Srcin1	Down		Down
ENSRNOG00000011478	ENSRNOG00000011478	Down		
ENSRNOG00000011483	S100a9	Up		Up
ENSRNOG00000011497	Aldh1b1	Down		Down
ENSRNOG00000011503	Shb	Up		
ENSRNOG00000011504	Akap2	Up		
ENSRNOG00000011526	Pcsk6	Down		
ENSRNOG00000011550	Kcnab2	Down	Down	
ENSRNOG00000011557	S100a8	Up		Up
ENSRNOG00000011559	Cnn3	Up		
ENSRNOG00000011561	Nln	Up		
ENSRNOG00000011568	Rspo3	Up		
ENSRNOG00000011582	Rab3d	Down	Down	
ENSRNOG00000011585	Fat3	Down		
ENSRNOG00000011586	Ccnl1	Up		
ENSRNOG00000011595	Senp8	Down		Down

ENSRNOG00000011598	ENSRNOG00000011598	Down	Down	
ENSRNOG00000011599	Gldc	Down	Down	
ENSRNOG00000011603	Cab39l	Down		
ENSRNOG00000011611	Mapk1ip1l	Up		
ENSRNOG00000011647	S100a6		Down	Up
ENSRNOG00000011659	Alpk3	Down		
ENSRNOG00000011668	Nfil3	Up		Up
ENSRNOG00000011677	Slc39a10	Up	Up	
ENSRNOG00000011683	Fes		Down	Up
ENSRNOG00000011690	Rmdn3	Up	Up	
ENSRNOG00000011704	Fbxo34	Up		
ENSRNOG00000011716	Degs2	Down		
ENSRNOG00000011723	Slc44a3	Down		
ENSRNOG00000011750	Fam180a	Down	Down	
ENSRNOG00000011762	Elf1	Up		
ENSRNOG00000011771	LOC103693189	Up		Up
ENSRNOG00000011775	Mfap3l	Down		
ENSRNOG00000011777	Spag5			Down
ENSRNOG00000011781	Oplah	Down		
ENSRNOG00000011796	C1r	Up		Up
ENSRNOG00000011799	Ccdc159	Down	Down	
ENSRNOG00000011808	Ghrhr	Down	Down	
ENSRNOG00000011815	Sgk1		Down	
ENSRNOG00000011820	Acp3	Up		
ENSRNOG00000011821	S100a4		Down	Up
ENSRNOG00000011826	Lzts1	Up		Up
ENSRNOG00000011875	Slc2a2	Up		
ENSRNOG00000011882	Gab2	Up		
ENSRNOG00000011891	Atp6v1b2	Up		
ENSRNOG00000011895	LOC691143	Up		
ENSRNOG00000011901	Rrad		Down	Up
ENSRNOG00000011909	Rasa2	Up		Up
ENSRNOG00000011912	Tmem38a	Down	Down	
ENSRNOG00000011913	Cp	Up		Up
ENSRNOG00000011923	Mgarp		Down	Up

ENSRNOG00000011931	Smarca2	Down	Down	
ENSRNOG00000011936	Abhd14a	Down		Down
ENSRNOG00000011944	Snx10	Up		Up
ENSRNOG00000011946	Ptn	Down	Down	
ENSRNOG00000011951	Plk2	Up		Up
ENSRNOG00000011971	C1s	Up		Up
ENSRNOG00000011973	Il7	Up	Up	Up
ENSRNOG00000011975	Crtc3	Up		
ENSRNOG00000011976	Nudt7	Down		
ENSRNOG00000011984	Cxcl14		Down	Up
ENSRNOG00000011987	Cd2ap	Up		
ENSRNOG00000011992	Slc18a1	Up	Up	
ENSRNOG00000012004	Ubap1	Up		
ENSRNOG00000012012	Pinx1	Up		
ENSRNOG00000012019	B3galnt1	Up		Up
ENSRNOG00000012027	Bco1			Down
ENSRNOG00000012036	Pcsk5	Up		
ENSRNOG00000012040	Slc25a48	Down		
ENSRNOG00000012049	Sox7	Up		Up
ENSRNOG00000012051	Ncaph	Down		
ENSRNOG00000012058	Egflam	Down	Down	
ENSRNOG00000012060	Gucyl1b1	Down	Down	
ENSRNOG00000012061	Prkcb	Down	Down	
ENSRNOG00000012068	LOC685849	Down		
ENSRNOG00000012098	Adcyap1r1	Down		
ENSRNOG00000012109	Otulinl	Down	Down	
ENSRNOG00000012110	Col17a1	Up		
ENSRNOG00000012142	Glyat	Down		
ENSRNOG00000012147	Nop14	Up		
ENSRNOG00000012148	Trio	Up		
ENSRNOG00000012153	Rbl2	Down		
ENSRNOG00000012155	Sox15	Down	Down	
ENSRNOG00000012163	Plekhm2	Up		
ENSRNOG00000012164	Plppr2	Down		
ENSRNOG00000012168	Fbxl21	Down	Down	

ENSRNOG00000012175	Nfatc2	Down		
ENSRNOG00000012210	Sptlc2	Up		
ENSRNOG00000012236	Hddc3	Down		
ENSRNOG00000012258	Rras2	Up		
ENSRNOG00000012264	Alkbh1	Up		
ENSRNOG00000012273	Dmtn	Down	Down	
ENSRNOG00000012280	Ptx3	Up		Up
ENSRNOG00000012294	Heph	Down	Down	
ENSRNOG00000012302	Gucyl1a1	Down	Down	
ENSRNOG00000012331	Casp8	Up		
ENSRNOG00000012333	Kbtbd11	Down		
ENSRNOG00000012349	Tlnrd1	Up		
ENSRNOG00000012369	Fam174b		Down	Up
ENSRNOG00000012371	Car7	Down		
ENSRNOG00000012375	Inpp1	Up	Up	
ENSRNOG00000012386	Zbtb38	Up		
ENSRNOG00000012404	Thrsp	Down	Down	
ENSRNOG00000012422	Tnik			Up
ENSRNOG00000012427	Veph1	Down	Down	
ENSRNOG00000012428	ENSRNOG00000012428	Up		
ENSRNOG00000012436	Adh1	Down	Down	
ENSRNOG00000012439	Bid	Up	Up	
ENSRNOG00000012470	Zc3h12c	Up		
ENSRNOG00000012471	Thbs4	Down		
ENSRNOG00000012478	Shox2	Down		
ENSRNOG00000012482	Ndr4	Down	Down	
ENSRNOG00000012495	Podxl		Down	
ENSRNOG00000012512	Nexn	Down	Down	
ENSRNOG00000012521	Shisa2	Down		
ENSRNOG00000012534	Mfsd10	Up		
ENSRNOG00000012536	Sgms1	Up		
ENSRNOG00000012543	Mcm3	Up		
ENSRNOG00000012546	Frmpd1	Up		
ENSRNOG00000012561	Arhgef10	Down	Down	
ENSRNOG00000012574	Pum3	Up		

ENSRNOG00000012575	Fat2	Down	Down	
ENSRNOG00000012580	Ccdc141	Down		
ENSRNOG00000012582	Eif4ebp1	Up		Up
ENSRNOG00000012591	Pkd2l1		Down	
ENSRNOG00000012611	Lpxn	Down	Down	
ENSRNOG00000012619	Epor		Down	Up
ENSRNOG00000012620	Syngn3	Down		
ENSRNOG00000012634	Fbxo10	Down	Down	
ENSRNOG00000012645	Mecom	Down		
ENSRNOG00000012658	Pdlim3	Down	Down	
ENSRNOG00000012660	Postn	Down		
ENSRNOG00000012664	Polr1e	Up		
ENSRNOG00000012665	Nmrk1	Down		
ENSRNOG00000012681	Lgals9	Up	Up	Up
ENSRNOG00000012702	Nfya	Up		
ENSRNOG00000012709	Bag2	Up		
ENSRNOG00000012714	RGD1564149	Down		
ENSRNOG00000012747	Spock1	Down		
ENSRNOG00000012779	Msr1	Up		Up
ENSRNOG00000012782	Cemip2	Up		Up
ENSRNOG00000012795	Cables1	Up		Up
ENSRNOG00000012802	Tenm3	Down		
ENSRNOG00000012815	Chst10		Down	Up
ENSRNOG00000012818	Ksr1	Up		Up
ENSRNOG00000012840	Sparc		Down	
ENSRNOG00000012852	Bin1	Up		
ENSRNOG00000012865	Parp3	Up	Up	
ENSRNOG00000012877	Rgs9bp	Down		
ENSRNOG00000012878	Atp7b	Down		
ENSRNOG00000012879	Fabp3	Down	Down	
ENSRNOG00000012881	Fgl2	Up		Up
ENSRNOG00000012886	Maff	Up		Up
ENSRNOG00000012891	Mdh1b	Down		
ENSRNOG00000012927	Rrp9	Up		
ENSRNOG00000012946	Mov10	Up	Up	

ENSRNOG00000012947	Metap1	Up		
ENSRNOG00000012950	Efr3b	Down		Down
ENSRNOG00000012956	Tgm2	Up		
ENSRNOG00000012959	Nab1	Up		
ENSRNOG00000012965	Themis2	Up		Up
ENSRNOG00000012989	Serinc2	Up		Up
ENSRNOG00000012994	Pus3	Up		
ENSRNOG00000013013	Tle3	Up		
ENSRNOG00000013045	Setd7	Up		
ENSRNOG00000013046	Tram2	Up		
ENSRNOG00000013053	Trpm6	Down		
ENSRNOG00000013064	Lrp8	Up		Up
ENSRNOG00000013067	Phf21b	Up	Up	
ENSRNOG00000013069	Sapcd2	Up		Up
ENSRNOG00000013090	Gadd45g	Up		Up
ENSRNOG00000013092	Lonrf3	Up		
ENSRNOG00000013097	LOC691485	Down		
ENSRNOG00000013123	Scube2		Down	Up
ENSRNOG00000013135	Ptpn12	Up		
ENSRNOG00000013136	Oxsr1	Up		
ENSRNOG00000013141	LOC100911625	Up		Up
ENSRNOG00000013147	Cacna1d	Down		
ENSRNOG00000013160	Sash1	Up	Up	Up
ENSRNOG00000013162	Zcchc12	Up		Up
ENSRNOG00000013166	Wnt4		Down	
ENSRNOG00000013170	Il13ra1	Up		Up
ENSRNOG00000013177	Map3k1	Up		
ENSRNOG00000013179	Tinagl1		Down	Up
ENSRNOG00000013194	Rps6ka2	Down	Down	
ENSRNOG00000013213	Epha4		Down	
ENSRNOG00000013220	Arhgap45	Down	Down	
ENSRNOG00000013232	Nr6a1	Up		
ENSRNOG00000013238	Tmem14a	Down	Down	
ENSRNOG00000013239	Tle4	Up		
ENSRNOG00000013251	Trim24	Up		

ENSRNOG00000013257	Hecw2	Down	Down	
ENSRNOG00000013260	Calr3		Down	
ENSRNOG00000013265	Tgfbr2	Up		
ENSRNOG00000013267	Helz2	Up	Up	Up
ENSRNOG00000013279	LOC681458		Down	
ENSRNOG00000013287	Sall2	Down		
ENSRNOG00000013290	Nrip3		Down	Up
ENSRNOG00000013309	Pik3ap1	Up		
ENSRNOG00000013313	Nceh1	Up		
ENSRNOG00000013317	RGD1565222			Down
ENSRNOG00000013323	Rnf217	Up		
ENSRNOG00000013324	Cdh5	Up		Up
ENSRNOG00000013330	Cdhr1	Up	Up	Up
ENSRNOG00000013339	Gmeb2	Up		
ENSRNOG00000013387	Tpcn2	Up		
ENSRNOG00000013395	Pglyrp1	Up		
ENSRNOG00000013408	Npas2			Up
ENSRNOG00000013419	Hykk	Down		Down
ENSRNOG00000013426	Mrgprf	Down	Down	
ENSRNOG00000013436	Pde7b		Down	
ENSRNOG00000013437	LOC691083	Down		
ENSRNOG00000013439	Cpn1	Down		
ENSRNOG00000013463	Kcnj8	Up		Up
ENSRNOG00000013481	Cdh11	Down		
ENSRNOG00000013515	Ptpu	Down	Down	
ENSRNOG00000013520	Mat2a	Down		Down
ENSRNOG00000013532	Pgam2	Down		Down
ENSRNOG00000013535	Cdh6	Up	Up	
ENSRNOG00000013541	Sh2d4a	Up		Up
ENSRNOG00000013547	Slc6a12	Down		
ENSRNOG00000013552	Scd	Down		
ENSRNOG00000013554	Trem12	Up		
ENSRNOG00000013572	Lxn	Up	Up	Up
ENSRNOG00000013573	Atp6v1b1	Down	Down	
ENSRNOG00000013589	Cxcl12	Down	Down	

ENSRNOG00000013593	Upk3a	Down		
ENSRNOG00000013594	Acp2	Down		
ENSRNOG00000013598	Melk	Down		
ENSRNOG00000013631	Slc31a2	Up		
ENSRNOG00000013634	Myd88	Up		
ENSRNOG00000013647	Polm	Down		Down
ENSRNOG00000013653	Pdlim7			Up
ENSRNOG00000013656	Lpar1		Down	
ENSRNOG00000013661	Kif26a	Down	Down	
ENSRNOG00000013668	Capg		Down	Up
ENSRNOG00000013683	Slpr1			Up
ENSRNOG00000013692	Abhd18	Down		
ENSRNOG00000013721	Nepro	Up		
ENSRNOG00000013727	ENSRNOG00000013727	Down		
ENSRNOG00000013736	C9	Up		
ENSRNOG00000013737	Bear3		Down	
ENSRNOG00000013738	LOC100174910	Down		
ENSRNOG00000013747	Sh3bp2	Up		Up
ENSRNOG00000013748	Trem3		Down	
ENSRNOG00000013751	Plpbp	Down		
ENSRNOG00000013774	Lmnb1	Up		Up
ENSRNOG00000013781	Kcnq5	Down		
ENSRNOG00000013783	Efh2	Up		Up
ENSRNOG00000013805	Tnip2	Up		Up
ENSRNOG00000013823	Cers3	Down		
ENSRNOG00000013828	Sirt3	Down		
ENSRNOG00000013838	Hcrt1		Down	Up
ENSRNOG00000013840	Ankrd2		Down	
ENSRNOG00000013847	Nova2			Up
ENSRNOG00000013862	Dusp2			Up
ENSRNOG00000013872	P2ry14	Down	Down	
ENSRNOG00000013914	Gpr132	Up		
ENSRNOG00000013927	Jag2		Down	
ENSRNOG00000013945	Itpkc	Up		Up
ENSRNOG00000013948	Zc3hav1	Up	Up	Up

ENSRNOG00000013950	Aadac	Down		
ENSRNOG00000013959	Skor1	Up		
ENSRNOG00000013963	Il6st	Up		
ENSRNOG00000013965	Noc3l	Up		
ENSRNOG00000013967	Blnk	Up		Up
ENSRNOG00000013973	Lcn2	Up		Up
ENSRNOG00000013975	Acat2l1	Down	Down	
ENSRNOG00000013987	Sbno2	Up		Up
ENSRNOG00000013991	ENSRNOG00000013991	Down	Down	
ENSRNOG00000014003	Fbxo16	Down	Down	
ENSRNOG00000014010	Gfra2	Down	Down	
ENSRNOG00000014013	Map4k4	Up		
ENSRNOG00000014018	St8sia1	Down	Down	
ENSRNOG00000014029	Klhl13	Down	Down	
ENSRNOG00000014034	Olfml2a	Down		
ENSRNOG00000014035	Arhgef4		Down	
ENSRNOG00000014041	Cep78	Down		
ENSRNOG00000014048	Cyld	Up		
ENSRNOG00000014071	Ddb2	Down		
ENSRNOG00000014079	Stat4	Up	Up	
ENSRNOG00000014080	Kif23	Down		
ENSRNOG00000014089	Map3k2	Up		Up
ENSRNOG00000014104	Myo5b	Up		
ENSRNOG00000014117	Hmox1	Up		Up
ENSRNOG00000014124	Nod2	Up		Up
ENSRNOG00000014132	Mypop	Down		
ENSRNOG00000014137	Fbln1		Down	
ENSRNOG00000014142	Ogfrl1	Up		
ENSRNOG00000014149	Npy1r	Down		
ENSRNOG00000014152	Kcnip3	Down	Down	
ENSRNOG00000014153	Lhfp16		Down	Up
ENSRNOG00000014161	Rbm15b	Up		
ENSRNOG00000014164	Paqr5	Down	Down	Down
ENSRNOG00000014166	Smoc2	Down	Down	
ENSRNOG00000014168	Xylb	Down		

ENSRNOG00000014182	Tns1	Down		
ENSRNOG00000014188	Tma16	Up		
ENSRNOG00000014201	ENSRNOG00000014201	Up	Up	
ENSRNOG00000014202	Snx20	Up		
ENSRNOG00000014204	Pacsin3	Up		
ENSRNOG00000014218	Tmem25	Down		
ENSRNOG00000014226	Plch2	Down	Down	
ENSRNOG00000014227	Mrgprx3	Down		
ENSRNOG00000014230	Map1a	Down	Down	
ENSRNOG00000014231	Pnoc	Down	Down	
ENSRNOG00000014243	Pear1	Down	Down	
ENSRNOG00000014251	Capn5		Down	
ENSRNOG00000014254	Cpt1a	Down		
ENSRNOG00000014259	Mycl	Down	Down	
ENSRNOG00000014266	ENSRNOG00000014266	Down		
ENSRNOG00000014268	Abca2	Down		
ENSRNOG00000014288	Fn1	Up		Up
ENSRNOG00000014293	Nkd1	Down	Down	
ENSRNOG00000014297	Sdc4	Up		Up
ENSRNOG00000014305	Fbxo42	Up	Up	
ENSRNOG00000014312	AC109737.1	Up		
ENSRNOG00000014314	Slc39a4	Down		
ENSRNOG00000014320	Inhba	Up		
ENSRNOG00000014323	Extl2	Down		
ENSRNOG00000014327	Csrp3	Up		
ENSRNOG00000014338	Slc25a25	Down	Down	
ENSRNOG00000014350	Ccn1	Up		Up
ENSRNOG00000014361	Edn1	Up		Up
ENSRNOG00000014367	Ephb6	Up		Up
ENSRNOG00000014371	Cdh13		Down	
ENSRNOG00000014372	Gjb3		Down	
ENSRNOG00000014375	Adgrb2	Down		
ENSRNOG00000014378	Il1r2			Up
ENSRNOG00000014385	Wnt2b	Down		
ENSRNOG00000014387	Chac1	Up		Up

ENSRNOG00000014395	Gli3	Up		
ENSRNOG00000014398	Scara5	Down		
ENSRNOG00000014424	RGD1563354	Down		
ENSRNOG00000014426	Lox			Up
ENSRNOG00000014434	Chd1	Up		
ENSRNOG00000014452	Zfhx3	Up		
ENSRNOG00000014456	Coq10b			Up
ENSRNOG00000014464	ENSRNOG00000014464	Down	Down	
ENSRNOG00000014478	Fndc3a	Up		
ENSRNOG00000014479	Ctnbp2nl	Up		Up
ENSRNOG00000014496	Coro6	Down	Down	Down
ENSRNOG00000014504	Il1r1			Up
ENSRNOG00000014505	Pmfbp1	Down		
ENSRNOG00000014509	Sacs	Up		
ENSRNOG00000014522	Mlycd	Down		
ENSRNOG00000014524	S1pr3		Down	Up
ENSRNOG00000014526	Cars2	Down		
ENSRNOG00000014528	Zswim6	Up		
ENSRNOG00000014532	Lbp	Up		Up
ENSRNOG00000014538	ENSRNOG00000014538	Up		
ENSRNOG00000014548	Nedd9	Down		
ENSRNOG00000014556	Cdh20	Down		
ENSRNOG00000014574	Entpd1		Down	
ENSRNOG00000014578	Fxyd4		Down	Up
ENSRNOG00000014603	Sgcg	Down		
ENSRNOG00000014616	Iars1	Up		
ENSRNOG00000014628	Pomk	Down		
ENSRNOG00000014634	Gtpbp1	Up		
ENSRNOG00000014642	Morn1	Down		
ENSRNOG00000014650	Sema4g	Down	Down	Down
ENSRNOG00000014652	Aqp8	Down		
ENSRNOG00000014653	Arl11	Down	Down	
ENSRNOG00000014661	Zfp385d	Down	Down	
ENSRNOG00000014672	Hs3st6		Down	
ENSRNOG00000014684	Npr1		Down	Up

ENSRNOG00000014702	Elovl2	Down		
ENSRNOG00000014710	Prom2	Down		
ENSRNOG00000014714	Trpv6	Up		Up
ENSRNOG00000014721	Ahrr	Down		
ENSRNOG00000014722	Raph1	Up		Up
ENSRNOG00000014753	Tcf7l1		Down	
ENSRNOG00000014761	Rasd2	Down	Down	
ENSRNOG00000014766	Galt	Down		
ENSRNOG00000014768	Glis3	Up		
ENSRNOG00000014795	Nr2f1	Down		
ENSRNOG00000014797	Tmbim1	Up		Up
ENSRNOG00000014806	Pnkd	Down		
ENSRNOG00000014819	Hap1	Up	Up	Up
ENSRNOG00000014832	Mapkapk3	Up		Up
ENSRNOG00000014838	Glipr2	Up		Up
ENSRNOG00000014852	Fbxo30	Up		
ENSRNOG00000014859	Rnf152	Down		
ENSRNOG00000014863	Reck		Down	
ENSRNOG00000014866	Pign	Down		Down
ENSRNOG00000014867	Synpo2		Down	
ENSRNOG00000014887	Homez	Down		
ENSRNOG00000014900	Crem	Up		Up
ENSRNOG00000014902	Stx11	Up		Up
ENSRNOG00000014907	Aldh8a1	Down		
ENSRNOG00000014909	Sh2d5	Up		Up
ENSRNOG00000014948	Osgin1	Down	Down	
ENSRNOG00000014953	Fbxo39	Up	Up	Up
ENSRNOG00000014961	Pdpm	Up		Up
ENSRNOG00000014964	Hp	Up		Up
ENSRNOG00000014986	Ube4b	Up		
ENSRNOG00000015002	Abhd15	Down	Down	
ENSRNOG00000015024	Mcoln3	Down		
ENSRNOG00000015030	Tjp2	Up		Up
ENSRNOG00000015036	Ccn2	Up		Up
ENSRNOG00000015057	Tmem102	Up		

ENSRNOG00000015061	Igfals	Down	Down	Down
ENSRNOG00000015071	Zim1	Down	Down	
ENSRNOG00000015072	Ptgr1		Down	
ENSRNOG00000015075	Stc1	Down	Down	
ENSRNOG00000015076	Cyp26b1			Up
ENSRNOG00000015078	Ifitm3	Up		Up
ENSRNOG00000015084	Necab2	Down	Down	
ENSRNOG00000015085	Dmpk		Down	
ENSRNOG00000015086	Plin1	Down		
ENSRNOG00000015093	Sparcl1	Down	Down	
ENSRNOG00000015105	Bspry	Up		
ENSRNOG00000015113	Mocos	Up		
ENSRNOG00000015118	Cpped1	Down		
ENSRNOG00000015121	N4bp1	Up		
ENSRNOG00000015125	LOC100911548	Up		
ENSRNOG00000015137	Spata6l	Down		
ENSRNOG00000015159	Slc9a3	Down		Down
ENSRNOG00000015160	Gem		Down	Up
ENSRNOG00000015201	Tmem266	Down		
ENSRNOG00000015212	Hspa14	Up	Up	
ENSRNOG00000015236	Mybbp1a	Up		
ENSRNOG00000015257	Coro2b	Down	Down	
ENSRNOG00000015279	Vtcn1	Up		Up
ENSRNOG00000015306	Slc9a4	Down	Down	
ENSRNOG00000015308	Pbk	Down		
ENSRNOG00000015310	Lrrc32	Up		Up
ENSRNOG00000015340	Dnajc25	Up		
ENSRNOG00000015347	Trim45	Down		
ENSRNOG00000015354	Aox1	Down	Down	
ENSRNOG00000015359	ENSRNOG00000015359	Down	Down	
ENSRNOG00000015365	Col4a3	Down	Down	
ENSRNOG00000015366	Neurl3	Up	Up	Up
ENSRNOG00000015370	Slc35g2		Down	
ENSRNOG00000015382	Arid5a	Up		Up
ENSRNOG00000015394	Trpv5	Up		Up

ENSRNOG00000015401	Mapk4	Down	Down	
ENSRNOG00000015406	Pgm5	Down	Down	
ENSRNOG00000015410	Aspn1	Down	Down	
ENSRNOG00000015416	Nabp1	Up		Up
ENSRNOG00000015418	Klhl14	Down	Down	
ENSRNOG00000015419	Spem1	Up		Up
ENSRNOG00000015434	Midn	Up		Up
ENSRNOG00000015461	Serpine2		Down	
ENSRNOG00000015465	Cep72	Down		
ENSRNOG00000015472	Tmem174	Down		
ENSRNOG00000015491	ENSRNOG00000015491	Up		
ENSRNOG00000015493	Emx1	Down		
ENSRNOG00000015495	Slc25a37	Up		
ENSRNOG00000015496	Tpm4	Up		Up
ENSRNOG00000015498	Ii17rb	Up	Up	
ENSRNOG00000015505	Mfap5	Down		
ENSRNOG00000015514	Beat1	Up		Up
ENSRNOG00000015519	LOC291863	Down		
ENSRNOG00000015526	Rhcg	Down		
ENSRNOG00000015529	Cdca3	Down		
ENSRNOG00000015538	Abcd2	Down		
ENSRNOG00000015553	Gatad2b	Up		
ENSRNOG00000015558	Zfp512b	Down		
ENSRNOG00000015566	Atp6v1e2		Down	
ENSRNOG00000015567	Slc9a2	Down		
ENSRNOG00000015581	Dnah6	Down		
ENSRNOG00000015585	Suv39h2	Up	Up	
ENSRNOG00000015589	Smyd5	Up		
ENSRNOG00000015590	Dnaaf1	Down	Down	
ENSRNOG00000015594	Rfn2	Down	Down	
ENSRNOG00000015596	Efhdl	Down	Down	
ENSRNOG00000015599	Mall	Up		
ENSRNOG00000015614	Ppp1r16b	Down	Down	
ENSRNOG00000015615	Tnfrsf11a			Up
ENSRNOG00000015632	Taf1c	Up		

ENSRNOG00000015641	Exoc3l1	Down	Down	
ENSRNOG00000015644	Ugcg	Up		Up
ENSRNOG00000015658	Sorbs1	Up		
ENSRNOG00000015668	Ccl19	Up		Up
ENSRNOG00000015677	Cda	Up		Up
ENSRNOG00000015682	Kel	Up		Up
ENSRNOG00000015685	Mfsd3	Down		
ENSRNOG00000015691	Inka2	Down		
ENSRNOG00000015696	Cdk5rap1	Down		
ENSRNOG00000015708	E2f4	Up		
ENSRNOG00000015718	RGD1307461	Down		
ENSRNOG00000015727	Loxl4		Down	Up
ENSRNOG00000015736	Dhrs3	Down		
ENSRNOG00000015741	Slc2a13	Down		Down
ENSRNOG00000015744	Spata25	Down		
ENSRNOG00000015750	Wnt7b			Up
ENSRNOG00000015768	Nat8f5	Down	Down	Down
ENSRNOG00000015774	Mreg	Down	Down	
ENSRNOG00000015777	Mex3c	Up		
ENSRNOG00000015780	Rcn2		Down	
ENSRNOG00000015787	P3h4	Down	Down	
ENSRNOG00000015796	Msh2	Down		
ENSRNOG00000015797	Neurl2	Down	Down	
ENSRNOG00000015799	LOC103690120	Down		Down
ENSRNOG00000015807	Pyroxd2	Down		
ENSRNOG00000015829	Trpm1	Down	Down	
ENSRNOG00000015845	Niban2			Up
ENSRNOG00000015867	Chst9	Down	Down	
ENSRNOG00000015880	Dpep1	Down		
ENSRNOG00000015886	Cnm4	Up		Up
ENSRNOG00000015895	B4galt6	Up		
ENSRNOG00000015906	Tgif1	Up		Up
ENSRNOG00000015916	Ttc38	Down		Down
ENSRNOG00000015941	Fkbp10	Down	Down	
ENSRNOG00000015972	Ano5	Down	Down	

ENSRNOG00000015987	Rap1gds1	Up	Up	
ENSRNOG00000016012	Spats2l	Up		Up
ENSRNOG00000016013	Gprc5b	Down	Down	
ENSRNOG00000016033	Endog	Down		
ENSRNOG00000016034	Cnot9	Up		
ENSRNOG00000016043	Aqp4		Down	
ENSRNOG00000016044	Mab21l3	Up		Up
ENSRNOG00000016050	Fgfr1	Up		
ENSRNOG00000016057	Kcnj13	Down		Down
ENSRNOG00000016066	Bambi	Up		Up
ENSRNOG00000016070	Trpc3	Down	Down	Down
ENSRNOG00000016099	Id4	Down	Down	
ENSRNOG00000016103	Nkd2	Down		
ENSRNOG00000016112	Cd274	Up	Up	Up
ENSRNOG00000016122	Hmgcr			Up
ENSRNOG00000016143	P3h3	Down		Down
ENSRNOG00000016148	Gtse1	Down		
ENSRNOG00000016164	Fcrl2	Down	Down	
ENSRNOG00000016167	Spata2L	Down		
ENSRNOG00000016177	Scara3		Down	
ENSRNOG00000016179	Acox1	Down		
ENSRNOG00000016180	Pdp1	Up		
ENSRNOG00000016182	Tgfa	Up		
ENSRNOG00000016183	Ipp	Down		
ENSRNOG00000016186	Zfp709	Down		
ENSRNOG00000016190	Coq9	Down		
ENSRNOG00000016204	Lrrc24	Down		
ENSRNOG00000016210	Micalc1	Up		Up
ENSRNOG00000016214	Agl	Down		
ENSRNOG00000016225	Fgd3	Up		Up
ENSRNOG00000016244	Mical2	Up		Up
ENSRNOG00000016245	Neto2	Down		
ENSRNOG00000016250	Ammecr1l	Up		
ENSRNOG00000016254	Sema4c			Up
ENSRNOG00000016255	Podxl2	Down	Down	

ENSRNOG00000016267	Chst15	Up		
ENSRNOG00000016273	Fam136a	Up		
ENSRNOG00000016279	Zfp865	Down		
ENSRNOG00000016281	Col4a1	Up		
ENSRNOG00000016288	Tcea2		Down	Up
ENSRNOG00000016289	Bmpr1b	Down	Down	
ENSRNOG00000016299	Klf4	Up		Up
ENSRNOG00000016312	Catsper4	Up		
ENSRNOG00000016326	Cx3cl1	Up		
ENSRNOG00000016353	Nim1k	Down		
ENSRNOG00000016356	Got1	Down		
ENSRNOG00000016361	Plcd4	Down	Down	
ENSRNOG00000016362	Gpr4	Up		Up
ENSRNOG00000016367	Vasp	Up		Up
ENSRNOG00000016371	Slc18b1	Down		
ENSRNOG00000016374	Fgfr2			Up
ENSRNOG00000016378	Map3k8	Up		Up
ENSRNOG00000016392	Zfp593	Up		
ENSRNOG00000016405	Pcsk4	Down		
ENSRNOG00000016412	Fxyd6	Down	Down	Down
ENSRNOG00000016416	Rnh1	Up		
ENSRNOG00000016419	Pdlim5	Up		
ENSRNOG00000016420	Serpinb6b		Down	
ENSRNOG00000016460	Clu	Up		Up
ENSRNOG00000016483	Myo16	Up		Up
ENSRNOG00000016486	Nop58	Up		
ENSRNOG00000016494	Tmem204	Down	Down	
ENSRNOG00000016525	Susd3	Down	Down	
ENSRNOG00000016526	Dsg2	Up		
ENSRNOG00000016535	Ccl22	Up	Up	Up
ENSRNOG00000016538	Itga8		Down	
ENSRNOG00000016541	Enc1	Up		Up
ENSRNOG00000016558	Pllp	Down	Down	
ENSRNOG00000016571	Ngf			Up
ENSRNOG00000016575	Tnfrsf1b	Up		Up

ENSRNOG00000016596	Hspa4	Up		
ENSRNOG00000016612	Trim36	Up		
ENSRNOG00000016618	Tmem52	Down	Down	Down
ENSRNOG00000016627	Eya4	Down		
ENSRNOG00000016643	Lpcat2		Down	
ENSRNOG00000016648	Gulo	Down		
ENSRNOG00000016653	Ngef	Down		
ENSRNOG00000016671	Dtna	Down		
ENSRNOG00000016672	Fam217a	Down		
ENSRNOG00000016675	Kcnn2	Down		Down
ENSRNOG00000016679	Tmc7	Up		Up
ENSRNOG00000016688	Ston1	Down		
ENSRNOG00000016690	Idi1		Down	
ENSRNOG00000016695	Mmp2	Down	Down	
ENSRNOG00000016697	Lrrc56	Down		Down
ENSRNOG00000016700	Tcf21			Up
ENSRNOG00000016701	Gng8	Down		
ENSRNOG00000016706	Fanca	Down	Down	
ENSRNOG00000016707	Casp2	Up	Up	
ENSRNOG00000016728	Tiam2		Down	
ENSRNOG00000016731	Tpm2	Down	Down	
ENSRNOG00000016751	Slc25a28	Up		
ENSRNOG00000016752	Crispld2		Down	Up
ENSRNOG00000016753	Slc14a1	Down	Down	Up
ENSRNOG00000016756	Ptgir			Up
ENSRNOG00000016760	Kctd19	Up		
ENSRNOG00000016776	Extl1	Down	Down	
ENSRNOG00000016791	Chka	Up		Up
ENSRNOG00000016812	Adamts16	Down	Down	Down
ENSRNOG00000016815	Tmem135	Down		
ENSRNOG00000016818	Fgfr3	Down		
ENSRNOG00000016825	Polr1g	Up		Up
ENSRNOG00000016831	Serpinh1	Up		
ENSRNOG00000016837	Ckm	Down	Down	
ENSRNOG00000016847	Bace1	Down		

ENSRNOG00000016863	Pnma8b	Down	Down	
ENSRNOG00000016866	Fhl2		Down	
ENSRNOG00000016872	Plppr4	Down	Down	
ENSRNOG00000016885	Klf6	Up		Up
ENSRNOG00000016890	Tppp3			Up
ENSRNOG00000016894	Dnd1	Up		
ENSRNOG00000016932	Simc1	Up		
ENSRNOG00000016945	Pla2g2a	Up		Up
ENSRNOG00000016950	Otud1	Up		Up
ENSRNOG00000016962	Neu2	Down	Down	
ENSRNOG00000016968	Gramd4	Down		
ENSRNOG00000016975	Pxmp4	Down		
ENSRNOG00000016978	LOC308990	Down		Down
ENSRNOG00000016997	Bnip5	Down	Down	
ENSRNOG00000017006	Nkx1-2	Down	Down	
ENSRNOG00000017021	Galnt18	Down	Down	
ENSRNOG00000017050	Lmntd2	Down		
ENSRNOG00000017052	Pianp	Down		
ENSRNOG00000017054	ENSRNOG00000017054			Up
ENSRNOG00000017060	Ryr2	Down		
ENSRNOG00000017065	Arhgap28	Up		Up
ENSRNOG00000017072	Slc16a14	Down	Down	Down
ENSRNOG00000017084	Hsd11b2	Down		
ENSRNOG00000017093	Pxdc1			Up
ENSRNOG00000017114	Synj2	Up		
ENSRNOG00000017117	Ybx2		Down	
ENSRNOG00000017118	P4ha3	Up		
ENSRNOG00000017120	Abhd2	Up	Up	
ENSRNOG00000017123	B2m	Up		
ENSRNOG00000017129	Ttll4	Up	Up	
ENSRNOG00000017136	Syt17	Down		
ENSRNOG00000017149	Fam131b	Up		
ENSRNOG00000017156	Ankle1	Down		
ENSRNOG00000017157	Trim69	Up		
ENSRNOG00000017163	Pfkip	Up	Up	

ENSRNOG00000017164	Afap1l2		Down	
ENSRNOG00000017178	Hydin	Down		
ENSRNOG00000017188	Cyp27a1	Up	Up	
ENSRNOG00000017191	Trim30	Up	Up	
ENSRNOG00000017197	Pdgfb	Up		Up
ENSRNOG00000017208	Cspg4	Down	Down	
ENSRNOG00000017209	Tubb3	Up	Up	Up
ENSRNOG00000017212	Spsb1	Up		Up
ENSRNOG00000017225	Fhip2a	Up		
ENSRNOG00000017226	Slc2a4	Down	Down	Down
ENSRNOG00000017233	Mmachc	Down		
ENSRNOG00000017250	Gmpr	Down	Down	
ENSRNOG00000017273	RGD1563917	Up		
ENSRNOG00000017295	Sh3glb2	Down		
ENSRNOG00000017302	Slc6a3		Down	
ENSRNOG00000017325	Cldn7	Up		Up
ENSRNOG00000017328	Pter	Down		
ENSRNOG00000017403	Apobr	Down	Down	
ENSRNOG00000017414	Irf7	Up	Up	Up
ENSRNOG00000017420	Nudt6	Down	Down	
ENSRNOG00000017421	Alpk2	Down	Down	
ENSRNOG00000017424	Chrna2	Down		Down
ENSRNOG00000017428	Map1b			Up
ENSRNOG00000017434	Mgat3	Down		
ENSRNOG00000017441	Tpm3_v1	Up		
ENSRNOG00000017448	Exoc3l2	Down	Down	
ENSRNOG00000017453	Ptpn2	Up		
ENSRNOG00000017459	C1ql3	Up	Up	
ENSRNOG00000017462	Spata5	Up		
ENSRNOG00000017469	Anxa1	Up		Up
ENSRNOG00000017473	Odad4	Down	Down	
ENSRNOG00000017477	Mmp23		Down	
ENSRNOG00000017485	Cd72	Up		
ENSRNOG00000017488	Snx24	Up		
ENSRNOG00000017491	Carf	Down		

ENSRNOG00000017496	Cnp	Up	Up	Up
ENSRNOG00000017500	Mtss2	Down	Down	
ENSRNOG00000017503	Ppargc1b	Down		
ENSRNOG00000017510	Mfge8		Down	
ENSRNOG00000017511	Dcdc2		Down	
ENSRNOG00000017512	Aldh3b1	Down	Down	
ENSRNOG00000017513	Miga2	Down		
ENSRNOG00000017528	Gpr157	Down	Down	
ENSRNOG00000017538	Lrrc27	Down	Down	
ENSRNOG00000017539	Mmp9	Up		Up
ENSRNOG00000017581	RGD1306227	Down		Down
ENSRNOG00000017589	Gnat1	Up		Up
ENSRNOG00000017600	Ptpn9	Up		
ENSRNOG00000017601	Srd5a1	Down		
ENSRNOG00000017602	Il34	Up	Up	
ENSRNOG00000017606	P2rx1	Down	Down	
ENSRNOG00000017610	Nedd4l	Up		
ENSRNOG00000017613	Tent4a	Up		
ENSRNOG00000017628	Tagln	Down	Down	
ENSRNOG00000017637	Fbp2	Down		
ENSRNOG00000017671	Rasa3	Down		
ENSRNOG00000017672	Akr1c14	Down		
ENSRNOG00000017693	Slc2a5	Down		
ENSRNOG00000017702	Gpld1	Down		
ENSRNOG00000017704	Sema3f			Up
ENSRNOG00000017746	Pard6a	Down		
ENSRNOG00000017749	Nkg7	Up		Up
ENSRNOG00000017766	Ca12	Down		
ENSRNOG00000017767	Irag1	Down	Down	
ENSRNOG00000017783	Sfrp1	Down	Down	
ENSRNOG00000017787	Ripk1	Up		
ENSRNOG00000017801	Atf4	Up		Up
ENSRNOG00000017803	Apbblip	Down		
ENSRNOG00000017808	Klf15	Down		Down
ENSRNOG00000017810	Uros	Down		

ENSRNOG00000017819	Cd14	Up		Up
ENSRNOG00000017822	Oga	Up		
ENSRNOG00000017852	Nars1	Up		
ENSRNOG00000017854	Ucp2		Down	
ENSRNOG00000017857	Cul7	Down	Down	
ENSRNOG00000017869	Irf8	Up	Up	Up
ENSRNOG00000017879	Gab1	Up		
ENSRNOG00000017883	Camsap1	Up		
ENSRNOG00000017887	Mutyh	Down	Down	
ENSRNOG00000017897	Adam8		Down	
ENSRNOG00000017914	Cavin3		Down	
ENSRNOG00000017933	Ccdc3		Down	
ENSRNOG00000017944	Tbx10	Down		
ENSRNOG00000017953	Gfod2	Up		
ENSRNOG00000017954	Prelid3a	Down		
ENSRNOG00000017959	Cfap100	Down	Down	
ENSRNOG00000017964	Slc22a25	Down		
ENSRNOG00000017976	Slco2b1	Down	Down	
ENSRNOG00000017981	Mcm10	Up		Up
ENSRNOG00000017982	Pnliprp2	Down		Down
ENSRNOG00000017987	Ucma	Up		Up
ENSRNOG00000017991	Cdk20	Up	Up	Up
ENSRNOG00000018003	F2rl1	Up		Up
ENSRNOG00000018009	Rab8b	Up		
ENSRNOG00000018052	Cnksr3	Up		Up
ENSRNOG00000018053	Fech	Down		
ENSRNOG00000018059	Ihh	Down		
ENSRNOG00000018067	Smn1	Up		
ENSRNOG00000018070	Rnf182	Down	Down	Up
ENSRNOG00000018076	Fmo5	Up	Up	
ENSRNOG00000018092	Cd83	Up		
ENSRNOG00000018106	Neu3	Down	Down	
ENSRNOG00000018109	Clic4	Up	Up	
ENSRNOG00000018122	Tspan17		Down	
ENSRNOG00000018126	Abca1	Up		Up

ENSRNOG00000018140	Smad2	Up		
ENSRNOG00000018167	Tmem221	Down		Down
ENSRNOG00000018183	Ubr4	Up		
ENSRNOG00000018193	Poc5	Down		
ENSRNOG00000018215	Slc22a6	Down		
ENSRNOG00000018233	Gas6	Down	Down	
ENSRNOG00000018238	Nuggc	Down		
ENSRNOG00000018242	Camkk1	Down	Down	Down
ENSRNOG00000018247	Dhx58	Up	Up	Up
ENSRNOG00000018251	Mrc1	Down	Down	
ENSRNOG00000018254	Sncaip	Down	Down	
ENSRNOG00000018262	Ampd3	Up		
ENSRNOG00000018285	Kcna2	Down	Down	
ENSRNOG00000018294	Hspa5	Up	Up	
ENSRNOG00000018316	Grap2	Up		
ENSRNOG00000018321	Sytl3	Down	Down	
ENSRNOG00000018339	Cabp2	Down	Down	
ENSRNOG00000018349	Polr1b	Up		
ENSRNOG00000018371	Tubb6	Up		Up
ENSRNOG00000018375	Eif2b3	Up		
ENSRNOG00000018397	Dnph1	Down		
ENSRNOG00000018404	Aars1	Up		
ENSRNOG00000018412	Sfi1	Down		
ENSRNOG00000018414	Csflr	Down	Down	
ENSRNOG00000018415	Acot13	Down		
ENSRNOG00000018420	Slc22a7	Down		
ENSRNOG00000018421	Aen	Up		
ENSRNOG00000018434	Stab1	Down	Down	
ENSRNOG00000018441	Ggt7		Down	Up
ENSRNOG00000018453	Nop2	Up		
ENSRNOG00000018467	Mitd1	Up	Up	Up
ENSRNOG00000018476	LOC100911225	Down		
ENSRNOG00000018477	Otud4	Up		
ENSRNOG00000018483	Smad1	Up		Up
ENSRNOG00000018484	Plk3		Down	Up

ENSRNOG00000018486	RGD1311084	Down	Down	
ENSRNOG00000018487	Slc3a2	Up		
ENSRNOG00000018488	Cd40	Up	Up	Up
ENSRNOG00000018494	Ppp1r3c		Down	
ENSRNOG00000018500	AABR07028615.1	Up		
ENSRNOG00000018503	AC098008.1	Up		
ENSRNOG00000018509	Cx3cr1	Down	Down	
ENSRNOG00000018517	Trim21	Up	Up	Up
ENSRNOG00000018532	Pcgf5	Up		
ENSRNOG00000018561	Pprc1	Up		Up
ENSRNOG00000018566	Ctsl	Up		Up
ENSRNOG00000018567	Slc20a1	Up		Up
ENSRNOG00000018570	C1qtnf3	Down	Down	
ENSRNOG00000018577	Neil1	Down		
ENSRNOG00000018599	Gga2	Down		
ENSRNOG00000018602	Camta1	Up		Up
ENSRNOG00000018606	Olr59	Down	Down	
ENSRNOG00000018610	Pde6d	Down		
ENSRNOG00000018615	Cenph	Down	Down	
ENSRNOG00000018627	Plekhb1		Down	Up
ENSRNOG00000018646	Hbegf	Up		Up
ENSRNOG00000018656	Ampd1	Up		
ENSRNOG00000018657	Scrn3	Down		
ENSRNOG00000018659	Csfl	Up		Up
ENSRNOG00000018662	Amacr	Down	Down	
ENSRNOG00000018674	Ntrk3	Down		
ENSRNOG00000018689	RGD1305464	Up		
ENSRNOG00000018693	Asgr1		Up	
ENSRNOG00000018694	Lipg	Down		Down
ENSRNOG00000018704	Nolc1	Up		
ENSRNOG00000018706	Il15ra	Up		
ENSRNOG00000018709	Patz1	Down	Down	
ENSRNOG00000018715	Clec10a	Up		Up
ENSRNOG00000018730	Nectin2	Up		Up
ENSRNOG00000018752	ENSRNOG00000018752	Up		Up

ENSRNOG00000018755	Acss2	Down		
ENSRNOG00000018762	Rsph3	Down		
ENSRNOG00000018770	Pmaip1	Up		Up
ENSRNOG00000018781	Map1s	Up		
ENSRNOG00000018782	Gmnn	Up		Up
ENSRNOG00000018785	Slc16a13	Down		Down
ENSRNOG00000018788	Btbd2	Down		
ENSRNOG00000018790	Kcnh4	Up	Up	
ENSRNOG00000018792	Tekt4	Down		
ENSRNOG00000018797	Myrip	Down	Down	
ENSRNOG00000018809	Psmc5	Up		
ENSRNOG00000018822	Slc5a5		Down	
ENSRNOG00000018824	Slc7a5	Up		Up
ENSRNOG00000018827	Htr7	Up		
ENSRNOG00000018830	Aff3	Down		
ENSRNOG00000018851	Ppp2r2b	Down	Down	
ENSRNOG00000018858	Myct1	Up		Up
ENSRNOG00000018863	Abcc10	Down		
ENSRNOG00000018865	Adamts12	Down	Down	
ENSRNOG00000018867	Klhdc7a	Down		Down
ENSRNOG00000018895	Mchr1	Up		Up
ENSRNOG00000018903	Pik3r1	Up		Up
ENSRNOG00000018911	Pfkfb3	Up		Up
ENSRNOG00000018929	Kif20b	Down		
ENSRNOG00000018940	Slc28a1	Down	Down	Down
ENSRNOG00000018943	Tnnc1		Down	Up
ENSRNOG00000018944	Pank1	Down		
ENSRNOG00000018949	Dlk2		Down	
ENSRNOG00000018953	Cblc		Down	Up
ENSRNOG00000018960	ENSRNOG00000018960	Up	Up	
ENSRNOG00000018962	Ctfl	Down	Down	
ENSRNOG00000018978	Scart1		Down	
ENSRNOG00000018980	Tjap1	Up		
ENSRNOG00000018982	Entpd3	Down	Down	
ENSRNOG00000018992	Dpysl3	Up		

ENSRNOG00000018996	Phf7	Down		
ENSRNOG00000018997	Myh7b	Down		
ENSRNOG00000019018	Plat		Down	Up
ENSRNOG00000019019	Fitm1	Down	Down	
ENSRNOG00000019020	Bbs2	Down		
ENSRNOG00000019022	Fam89a	Up		
ENSRNOG00000019023	Tars1	Up		
ENSRNOG00000019028	Znrf1	Up		
ENSRNOG00000019039	Inpp5e	Up		
ENSRNOG00000019048	Sod2	Up	Up	Up
ENSRNOG00000019050	ENSRNOG00000019050	Up		Up
ENSRNOG00000019065	Zfp385b	Up		
ENSRNOG00000019100	Kif2c	Down		
ENSRNOG00000019112	Chp2	Down		
ENSRNOG00000019120	Hmgcs2	Down	Down	
ENSRNOG00000019128	St8sia4	Up		Up
ENSRNOG00000019138	Clec11a	Down		
ENSRNOG00000019140	Banp	Up	Up	
ENSRNOG00000019142	Fas	Up		Up
ENSRNOG00000019161	Cpeb1	Up		
ENSRNOG00000019162	Emc9	Down	Down	
ENSRNOG00000019170	Il27	Up	Up	
ENSRNOG00000019177	Psd2	Down		
ENSRNOG00000019179	Ggta1	Down	Down	
ENSRNOG00000019180	Acs14	Up		
ENSRNOG00000019184	Npr3		Down	
ENSRNOG00000019186	Tmem53	Down		
ENSRNOG00000019190	Ankrd22	Up		Up
ENSRNOG00000019199	Cracr2b	Down	Down	
ENSRNOG00000019202	Pvr	Up		Up
ENSRNOG00000019203	Eya2		Down	
ENSRNOG00000019211	Olfml3	Down	Down	
ENSRNOG00000019216	Il12rb1	Down		Down
ENSRNOG00000019219	Vamp1	Down	Down	
ENSRNOG00000019229	Fbl	Up		

ENSRNOG00000019244	Mxra8	Down	Down	
ENSRNOG00000019246	Psme2	Up		
ENSRNOG00000019257	Kif27	Down		
ENSRNOG00000019265	Pcdh12	Down	Down	
ENSRNOG00000019270	P2ry6	Up		
ENSRNOG00000019271	Ulk4	Down		Down
ENSRNOG00000019283	P2ry2			Up
ENSRNOG00000019296	Gnat2	Up		Up
ENSRNOG00000019306	Syt12	Up		
ENSRNOG00000019311	Nfkb2	Up		Up
ENSRNOG00000019316	Sh3bp4	Up		
ENSRNOG00000019318	Syt3	Down		
ENSRNOG00000019321	Cck	Up		Up
ENSRNOG00000019322	Notch1	Up		Up
ENSRNOG00000019330	Procr	Up		Up
ENSRNOG00000019332	Gtpbp2	Up		
ENSRNOG00000019340	Cep250	Down		
ENSRNOG00000019353	Ctrl	Up	Up	Up
ENSRNOG00000019356	Lrfn4			Up
ENSRNOG00000019357	Tax1bp3	Up		
ENSRNOG00000019358	Esr1	Down		
ENSRNOG00000019361	Inpp5j	Down		Down
ENSRNOG00000019363	Inka1	Down		
ENSRNOG00000019383	Tef	Down		Down
ENSRNOG00000019388	Egfl7		Down	Up
ENSRNOG00000019412	Rhbg	Down		
ENSRNOG00000019414	Tmem79	Down		
ENSRNOG00000019422	Egr1		Down	Up
ENSRNOG00000019430	Coro1a	Down	Down	
ENSRNOG00000019433	Rab3a	Down	Down	
ENSRNOG00000019435	Psd	Down		
ENSRNOG00000019438	Rnf31	Up		
ENSRNOG00000019447	Ecel1	Up		
ENSRNOG00000019451	Smtn	Down	Down	
ENSRNOG00000019456	Kars	Up		

ENSRNOG00000019458	Shpk	Down		
ENSRNOG00000019467	Fer1l4	Down		
ENSRNOG00000019477	Zmynd15	Up	Up	Up
ENSRNOG00000019478	Irf9	Up		Up
ENSRNOG00000019484	Slc6a9	Up	Up	
ENSRNOG00000019496	Stat5a	Down		Down
ENSRNOG00000019500	Cyp11a1	Down	Down	
ENSRNOG00000019518	Pde4c	Down		
ENSRNOG00000019519	Idnk	Down		
ENSRNOG00000019533	Klhl3	Down	Down	Down
ENSRNOG00000019536	Smim3			Up
ENSRNOG00000019542	MGC108823	Up	Up	Up
ENSRNOG00000019549	Akap12	Up		Up
ENSRNOG00000019559	Eaf1	Up		
ENSRNOG00000019560	Pde2a	Down	Down	
ENSRNOG00000019568	Jund	Up		Up
ENSRNOG00000019573	Lcat	Up		
ENSRNOG00000019582	Mthfd1l	Up		Up
ENSRNOG00000019612	Haghl	Down	Down	
ENSRNOG00000019615	Colq	Down		
ENSRNOG00000019616	Prss8	Down		
ENSRNOG00000019627	Mybpc2	Up		
ENSRNOG00000019630	Hacl1	Down		
ENSRNOG00000019638	Lmna	Up		Up
ENSRNOG00000019639	Pgpep1	Down		
ENSRNOG00000019645	Osbp2		Down	
ENSRNOG00000019657	ENSRNOG00000019657	Down		
ENSRNOG00000019659	Aspa	Down	Down	
ENSRNOG00000019660	Spib	Up		
ENSRNOG00000019661	Gdf15			Up
ENSRNOG00000019662	Tm6sf1	Down	Down	
ENSRNOG00000019680	Mst1	Down		
ENSRNOG00000019692	Metrn	Down		
ENSRNOG00000019711	Isoc1	Down		
ENSRNOG00000019716	Ntf3	Down	Down	

ENSRNOG00000019718	Galnt15	Down	Down	
ENSRNOG00000019719	Kcna5	Down	Down	
ENSRNOG00000019723	Rbm12	Up		
ENSRNOG00000019727	ENSRNOG00000019727	Down		Down
ENSRNOG00000019728	Itgam	Up		
ENSRNOG00000019737	Sema4a	Up		Up
ENSRNOG00000019741	Isynal		Down	
ENSRNOG00000019742	Stat3	Up		
ENSRNOG00000019744	AABR07032097.1	Up		Up
ENSRNOG00000019751	Cyb5r2		Down	
ENSRNOG00000019757	Dpep3	Down		
ENSRNOG00000019763	Mlph	Down	Down	Up
ENSRNOG00000019776	Sh3gl3		Down	Up
ENSRNOG00000019779	Disc1	Down		
ENSRNOG00000019780	Sypl2	Up	Up	
ENSRNOG00000019791	Sipa1l2	Up		
ENSRNOG00000019822	Gadd45b	Up		Up
ENSRNOG00000019824	Ell	Up		Up
ENSRNOG00000019830	Hsd17b1	Down		
ENSRNOG00000019832	Bbs1	Down		
ENSRNOG00000019834	Hsp90ab1	Up		
ENSRNOG00000019842	Artn		Down	Up
ENSRNOG00000019843	St3gal3	Down		
ENSRNOG00000019850	Speg	Down	Down	
ENSRNOG00000019859	Pla2g15	Up		
ENSRNOG00000019862	Pinlyp		Down	
ENSRNOG00000019890	Folr2	Down	Down	
ENSRNOG00000019907	Nfkbie	Up		
ENSRNOG00000019926	ENSRNOG00000019926	Down	Down	
ENSRNOG00000019965	Tgfb1l1	Down	Down	
ENSRNOG00000019995	Dnajc18	Down		
ENSRNOG00000019996	Slc16a1	Up		Up
ENSRNOG00000019999	Lypd3	Up		Up
ENSRNOG00000020013	Psrc1	Down		
ENSRNOG00000020024	Taf7	Up		

ENSRNOG00000020025	Slc29a2	Up	Up	
ENSRNOG00000020029	Mcrip2	Down		
ENSRNOG00000020030	Crlf1		Down	
ENSRNOG00000020058	Celsr2	Down		
ENSRNOG00000020060	Atf5	Up	Up	
ENSRNOG00000020078	Vstm4		Down	
ENSRNOG00000020081	As3mt	Down		
ENSRNOG00000020105	Klhl30	Down	Down	
ENSRNOG00000020125	Cd79a			Up
ENSRNOG00000020132	Ttl10	Down		
ENSRNOG00000020136	Tgm1	Up		Up
ENSRNOG00000020148	Il4i1	Up	Up	Up
ENSRNOG00000020150	Il18bp	Up		Up
ENSRNOG00000020151	Cdh1	Up		Up
ENSRNOG00000020164	Ifitm10	Up		Up
ENSRNOG00000020173	Tie1	Down	Down	
ENSRNOG00000020182	Mvp	Up		Up
ENSRNOG00000020185	Wdr6	Down	Down	
ENSRNOG00000020194	Hes6	Down	Down	
ENSRNOG00000020197	LOC108348067	Down	Down	
ENSRNOG00000020205	Agrn	Up		
ENSRNOG00000020212	Prr35	Down	Down	
ENSRNOG00000020225	Dlgap4	Up		
ENSRNOG00000020229	Homer3	Up		Up
ENSRNOG00000020246	Myl9	Down	Down	
ENSRNOG00000020249	P4htm	Down	Down	
ENSRNOG00000020255	Sars1	Up		
ENSRNOG00000020259	RGD1305347	Down		
ENSRNOG00000020272	ENSRNOG00000020272	Down		Down
ENSRNOG00000020275	Ccr10	Down	Down	Down
ENSRNOG00000020277	Cntnap1	Down		
ENSRNOG00000020288	Slc25a20	Down		
ENSRNOG00000020298	Bag3	Up		Up
ENSRNOG00000020300	Lsp1	Up		
ENSRNOG00000020309	Gfra3	Down		

ENSRNOG00000020332	Tnnt3	Up		
ENSRNOG00000020345	Slc25a42	Down		
ENSRNOG00000020349	Rab3il1	Down	Down	
ENSRNOG00000020355	Twist2	Up		Up
ENSRNOG00000020369	Igf2		Down	Up
ENSRNOG00000020372	Hdac4	Up		
ENSRNOG00000020389	Capn12	Down	Down	
ENSRNOG00000020393	Rhog	Up		
ENSRNOG00000020400	Mef2b	Down		
ENSRNOG00000020416	Zfr2	Down	Down	
ENSRNOG00000020431	Matk	Down		
ENSRNOG00000020441	Wnk4	Down	Down	
ENSRNOG00000020443	Tsk3	Down	Down	
ENSRNOG00000020456	Nucb2		Down	
ENSRNOG00000020465	Ripk3	Up		Up
ENSRNOG00000020470	Slc25a24	Up		Up
ENSRNOG00000020480	Fads1		Down	
ENSRNOG00000020506	Khyn1	Up		
ENSRNOG00000020514	Sox6	Down		
ENSRNOG00000020518	Fam189b	Down		Down
ENSRNOG00000020525	Col5a3	Down	Down	
ENSRNOG00000020546	Lipe	Down		
ENSRNOG00000020552	Fosl1	Up		Up
ENSRNOG00000020557	Ryr1	Up		
ENSRNOG00000020573	Efnal	Up		Up
ENSRNOG00000020580	Shfl	Up	Up	Up
ENSRNOG00000020590	Adam15		Down	
ENSRNOG00000020605	Pstk	Down	Down	
ENSRNOG00000020608	Ppan	Up		
ENSRNOG00000020621	Dcst1	Down		Down
ENSRNOG00000020622	Cilp2	Up		
ENSRNOG00000020638	Hmx2	Down		
ENSRNOG00000020651	Cars	Up		Up
ENSRNOG00000020652	Tgfb1		Down	Up
ENSRNOG00000020653	S1pr2	Up		

ENSRNOG00000020656	Pfkfb4	Down	Down	Down
ENSRNOG00000020667	Shisa5	Up		
ENSRNOG00000020669	Ovol1	Down		
ENSRNOG00000020676	Ppp1r14a	Down	Down	
ENSRNOG00000020678	Ifi35	Up		
ENSRNOG00000020679	Icam1	Up		Up
ENSRNOG00000020685	Atp12a	Down		
ENSRNOG00000020694	Icam5		Down	
ENSRNOG00000020695	Tead2		Down	
ENSRNOG00000020699	Cd37	Down	Down	
ENSRNOG00000020706	Kcnn3	Up		Up
ENSRNOG00000020716	Axl	Up		Up
ENSRNOG00000020719	Hrc	Down	Down	
ENSRNOG00000020729	Stc2	Down		
ENSRNOG00000020743	Cyp2s1	Up		
ENSRNOG00000020744	Adar	Up	Up	
ENSRNOG00000020751	Rdm1		Down	
ENSRNOG00000020776	Dhcr7	Down		
ENSRNOG00000020797	She		Down	
ENSRNOG00000020803	Meox1			Up
ENSRNOG00000020811	Il6r			Up
ENSRNOG00000020812	Gys1	Down		
ENSRNOG00000020822	Atp8b2	Down	Down	
ENSRNOG00000020832	C2cd4d	Down	Down	
ENSRNOG00000020833	Cspg5	Down		
ENSRNOG00000020837	Cd300lg	Down		
ENSRNOG00000020862	Ptpn23	Up		
ENSRNOG00000020864	Kirrel2	Down	Down	
ENSRNOG00000020865	Ano1		Down	
ENSRNOG00000020867	Numbl	Up		Up
ENSRNOG00000020875	Celf3		Down	Up
ENSRNOG00000020884	Cd6	Down		
ENSRNOG00000020891	Kif9	Down		
ENSRNOG00000020901	S1pr5	Down		
ENSRNOG00000020904	Cdc42ep2	Up		Up

ENSRNOG00000020925	Ccdc86	Up		
ENSRNOG00000020938	Ppp1r15a	Up		Up
ENSRNOG00000020942	Plekha4	Up		
ENSRNOG00000020948	Pth1r	Down	Down	
ENSRNOG00000020956	Bcat2	Down		
ENSRNOG00000020970	Rundc3a		Down	
ENSRNOG00000020998	Oosp1	Down		
ENSRNOG00000021003	Sac3d1	Up		
ENSRNOG00000021004	Rasip1	Up		Up
ENSRNOG00000021012	Rfx5	Up		
ENSRNOG00000021013	Stx3	Up		
ENSRNOG00000021018	ENSRNOG00000021018	Up		Up
ENSRNOG00000021020	Gpha2			Up
ENSRNOG00000021027	Dbp	Down		Down
ENSRNOG00000021039	Fam83e	Down	Down	
ENSRNOG00000021041	Fam171a2	Down	Down	
ENSRNOG00000021046	Sult2b1	Down	Down	
ENSRNOG00000021047	Lrrfip2	Up		
ENSRNOG00000021048	AC095693.1		Down	
ENSRNOG00000021053	Lsr	Up		
ENSRNOG00000021056	Kcnj14	Up		
ENSRNOG00000021062	Fxyd5	Down	Down	
ENSRNOG00000021079	Fxyd1	Down	Down	
ENSRNOG00000021086	Dtx4	Up		
ENSRNOG00000021091	Trank1		Down	Up
ENSRNOG00000021093	Syngn4	Down		
ENSRNOG00000021100	Tnfaip8l2	Down		
ENSRNOG00000021101	Sema6c		Down	
ENSRNOG00000021109	Odad1	Up	Up	
ENSRNOG00000021116	Bnpl	Down	Down	
ENSRNOG00000021134	Anxa9	Down	Down	
ENSRNOG00000021144	ENSRNOG00000021144	Up		
ENSRNOG00000021145	Gpr137	Down		
ENSRNOG00000021155	Ctsk		Down	
ENSRNOG00000021164	Stip1	Up	Up	

ENSRNOG00000021182	Sv2a	Down	Down	
ENSRNOG00000021200	Hjv	Down	Down	
ENSRNOG00000021213	Lix1l		Down	
ENSRNOG00000021220	Cpxm1	Down	Down	
ENSRNOG00000021231	Lzts3	Down	Down	
ENSRNOG00000021234	Slc4a1l		Down	Up
ENSRNOG00000021242	Adam33	Down		
ENSRNOG00000021244	Hspa12b	Down	Down	
ENSRNOG00000021250	ENSRNOG00000021250	Up	Up	
ENSRNOG00000021255	Smox			Up
ENSRNOG00000021256	Adra1d	Up		Up
ENSRNOG00000021259	Prnp			Up
ENSRNOG00000021261	Rassf2	Down		Down
ENSRNOG00000021268	Shld1	Down		
ENSRNOG00000021274	Fermt1	Down	Down	
ENSRNOG00000021323	Ca13	Up		Up
ENSRNOG00000021324	RGD1565059	Down		
ENSRNOG00000021334	Lag3	Up		Up
ENSRNOG00000021338	Tmem132a	Up		
ENSRNOG00000021345	Timd2	Up	Up	
ENSRNOG00000021370	Ccdc69	Down		
ENSRNOG00000021380	Fads6	Down	Down	Down
ENSRNOG00000021403	ENSRNOG00000021403	Up		Up
ENSRNOG00000021412	Slfn13	Up	Up	Up
ENSRNOG00000021420	Tirap	Up		
ENSRNOG00000021433	Arhgef39	Down		
ENSRNOG00000021437	Hspg2		Down	Up
ENSRNOG00000021438	LOC100909441 ENSRNOG00000021438	Up		
ENSRNOG00000021447	Prr7	Up		Up
ENSRNOG00000021463	Ppara	Down		Down
ENSRNOG00000021469	Ccdc14			Down
ENSRNOG00000021478	Tpd52l1		Down	Up
ENSRNOG00000021484	AABR07003537.1	Up		
ENSRNOG00000021493	Prdm9	Down		

ENSRNOG00000021497	Akt3			Up
ENSRNOG00000021513	Rtn4rl2	Up		
ENSRNOG00000021521	Chst5		Down	
ENSRNOG00000021525	Nbeal1	Up		
ENSRNOG00000021536	Plxdc1		Down	
ENSRNOG00000021546	Sit1	Down	Down	
ENSRNOG00000021548	Rassf1	Up		Up
ENSRNOG00000021609	LOC100912566	Down	Down	
ENSRNOG00000021611	Clip2	Up		Up
ENSRNOG00000021628	Wdr89	Down		Down
ENSRNOG00000021644	Slc15a3	Up		Up
ENSRNOG00000021657	Pld6	Down		Down
ENSRNOG00000021669	Mybl1	Down		Down
ENSRNOG00000021670	Frem2	Down	Down	
ENSRNOG00000021680	Setdb2	Up	Up	
ENSRNOG00000021681	Eea1	Up		
ENSRNOG00000021704	Atp8b5p	Down		Down
ENSRNOG00000021713	Kif18b	Down		Down
ENSRNOG00000021719	Slfn5	Up		
ENSRNOG00000021735	Akr1c15	Down		
ENSRNOG00000021771	Trim29	Down	Down	
ENSRNOG00000021787	Zfp217	Up		
ENSRNOG00000021812	Scx		Down	
ENSRNOG00000021817	Irak2	Up		
ENSRNOG00000021824	Dnajb1	Up		
ENSRNOG00000021840	Cped1	Down	Down	
ENSRNOG00000021896	Mmp20	Up		
ENSRNOG00000021916	Slc16a12	Down		
ENSRNOG00000021919	Rhoj	Up		Up
ENSRNOG00000021962	Fzd2	Down	Down	
ENSRNOG00000021984	Rgs7	Down	Down	
ENSRNOG00000022012	Tnfrsf18	Up		
ENSRNOG00000022044	Cabp4	Down	Down	
ENSRNOG00000022054	Paqr7	Down	Down	Down
ENSRNOG00000022067	Tlr5	Down		

ENSRNOG00000022071	Itga2b	Down		
ENSRNOG00000022099	Trim72			Up
ENSRNOG00000022116	Gjb6	Down	Down	
ENSRNOG00000022143	Dusp23	Down		
ENSRNOG00000022199	Zmynd12	Down	Down	
ENSRNOG00000022218	Ifi44	Up	Up	Up
ENSRNOG00000022239	Trarg1	Down		
ENSRNOG00000022242	Cxcl9	Up	Up	Up
ENSRNOG00000022256	Cxcl10	Up	Up	Up
ENSRNOG00000022273	Rfk	Up		
ENSRNOG00000022286	AABR07039316.1	Down	Down	
ENSRNOG00000022288	Pafah2	Down		Down
ENSRNOG00000022296	Pnpla5	Up		
ENSRNOG00000022298	Cxcl11	Up	Up	Up
ENSRNOG00000022309	Frem1	Down	Down	Down
ENSRNOG00000022321	Hapln3		Down	
ENSRNOG00000022343	Alms1	Down		
ENSRNOG00000022372	Kdmla	Up		
ENSRNOG00000022414	Zfp142	Up		
ENSRNOG00000022419	Dok7	Down		Down
ENSRNOG00000022428	Flrt1	Down	Down	
ENSRNOG00000022429	Minar2		Down	
ENSRNOG00000022499	Sgo1	Down		
ENSRNOG00000022505	Slc17a4		Down	
ENSRNOG00000022540	Trex1	Up		
ENSRNOG00000022555	LOC497899	Down	Down	
ENSRNOG00000022576	Nudt12	Down	Down	
ENSRNOG00000022597	Cenpj	Up		
ENSRNOG00000022623	Ttll12	Up		
ENSRNOG00000022635	Dlg2	Down		
ENSRNOG00000022636	Alpk1	Up		Up
ENSRNOG00000022694	Plekhg5	Down		
ENSRNOG00000022704	Esyt3	Down	Down	
ENSRNOG00000022710	Prrg4	Up		Up
ENSRNOG00000022711	Slco4c1	Down		Down

ENSRNOG00000022721	Clec18a	Down	Down	
ENSRNOG00000022730	Zfp57	Up		
ENSRNOG00000022760	Rubcnl	Up		
ENSRNOG00000022767	Elfn1	Down		
ENSRNOG00000022769	Sp100	Up	Up	Up
ENSRNOG00000022791	Ttc6		Down	
ENSRNOG00000022796	Fgfbp3	Down		
ENSRNOG00000022800	Sp140	Up	Up	Up
ENSRNOG00000022802	Tmem184b	Up		
ENSRNOG00000022807	Pced1b			Up
ENSRNOG00000022837	Slc25a40	Down		
ENSRNOG00000022838	Cnksr1	Up		
ENSRNOG00000022839	Ifit3	Up	Up	Up
ENSRNOG00000022859	Trem1	Up		Up
ENSRNOG00000022868	Ell3	Down		
ENSRNOG00000022893	Rimbp2	Down		Down
ENSRNOG00000022910	Emcn	Down	Down	
ENSRNOG00000022911	Hjurp			Down
ENSRNOG00000022946	Slc22a3	Down		
ENSRNOG00000022964	Rnf222	Down	Down	Down
ENSRNOG00000022975	Nfam1	Up		
ENSRNOG00000022988	Skint10	Down		
ENSRNOG00000023008	Fam131c	Down		Down
ENSRNOG00000023013	Marchf3	Up		Up
ENSRNOG00000023023	Trpt1	Down		
ENSRNOG00000023035	Smim8	Down		
ENSRNOG00000023079	Nras	Up		
ENSRNOG00000023093	Mis18bp1		Up	
ENSRNOG00000023122	ENSRNOG00000023122	Up	Up	
ENSRNOG00000023148	Col11a1		Down	
ENSRNOG00000023195	Defb29	Down		
ENSRNOG00000023209	Slamf7			Up
ENSRNOG00000023214	Il20rb	Down	Down	
ENSRNOG00000023226	S100a10	Up		Up
ENSRNOG00000023233	LOC102546648	Down		

ENSRNOG00000023257	Adamts9	Up		Up
ENSRNOG00000023258	Nfkb1	Up		Up
ENSRNOG00000023261	ENSRNOG00000023261	Down		
ENSRNOG00000023262	Cenpm	Up	Up	
ENSRNOG00000023320	Tspan1			Up
ENSRNOG00000023334	Parp14	Up	Up	Up
ENSRNOG00000023337	Sema3a			Up
ENSRNOG00000023338	Tspan2		Down	
ENSRNOG00000023340	Tmem72			Down
ENSRNOG00000023352	Fam78a	Down		
ENSRNOG00000023366	Styx11	Down		
ENSRNOG00000023376	Riok3	Up		
ENSRNOG00000023400	Dtx3l	Up	Up	Up
ENSRNOG00000023410	Apol9a	Up	Up	Up
ENSRNOG00000023458	Dcaf12l1	Down		
ENSRNOG00000023463	Parp9	Up	Up	Up
ENSRNOG00000023465	Depp1		Down	Up
ENSRNOG00000023473	Rnf122	Up		Up
ENSRNOG00000023485	Ushbp1	Down	Down	
ENSRNOG00000023496	Fam189a1	Down	Down	Down
ENSRNOG00000023509	Irs2	Up		
ENSRNOG00000023536	Adgrd1	Up		Up
ENSRNOG00000023546	Hspb1	Up		Up
ENSRNOG00000023561	Ano2	Down		Down
ENSRNOG00000023614	Hsh2d	Up	Up	
ENSRNOG00000023657	Gprin3	Down		
ENSRNOG00000023664	Lepr	Down	Down	
ENSRNOG00000023686	Upk3b	Down		
ENSRNOG00000023688	Drd1	Up		Up
ENSRNOG00000023698	Tex14	Down	Down	
ENSRNOG00000023781	Plec	Up		Up
ENSRNOG00000023799	Pak1ip1	Up		Up
ENSRNOG00000023812	Raver2	Down	Down	
ENSRNOG00000023850	Tbrg1	Up		
ENSRNOG00000023851	Igsf3	Up		

ENSRNOG00000023870	Sh2d7	Down		
ENSRNOG00000023881	Skap1	Down		
ENSRNOG00000023896	Dusp6			Up
ENSRNOG00000023937	Slc49a3	Down		
ENSRNOG00000023951	Tbc1d30		Down	
ENSRNOG00000023969	Herc6	Up	Up	Up
ENSRNOG00000023972	Col4a2	Up		
ENSRNOG00000023985	Fan1	Down		
ENSRNOG00000023993	Kif1a		Down	
ENSRNOG00000024008	Cdc25c	Down	Down	
ENSRNOG00000024012	Pex10	Down		
ENSRNOG00000024028	Sprr1a	Down		
ENSRNOG00000024043	Orc6	Down		
ENSRNOG00000024061	Rarb		Down	
ENSRNOG00000024089	Fndc3b	Up		
ENSRNOG00000024135	Zmat1	Down	Down	
ENSRNOG00000024178	Cenpt	Down		
ENSRNOG00000024210	Nlrc3	Down		
ENSRNOG00000024221	Mettl24	Down	Down	
ENSRNOG00000024237	Scel	Down	Down	
ENSRNOG00000024259	Tmem54	Down	Down	
ENSRNOG00000024310	Kcnf1	Down		
ENSRNOG00000024330	Ngp	Up		Up
ENSRNOG00000024331	Upk1a	Down	Down	
ENSRNOG00000024346	Plet1		Down	Up
ENSRNOG00000024349	Cbarp			Up
ENSRNOG00000024365	Ect2	Up	Up	
ENSRNOG00000024382	Fcgr3a	Up		
ENSRNOG00000024428	Kif20a	Down		Down
ENSRNOG00000024433	Fbx17	Down		
ENSRNOG00000024435	Galnt17	Down		
ENSRNOG00000024438	Bsx	Down		
ENSRNOG00000024456	Radil	Up	Up	
ENSRNOG00000024501	Rgs3	Down	Down	
ENSRNOG00000024553	Cyb5d2	Down		

ENSRNOG00000024557	Cep112	Down	Down	
ENSRNOG00000024563	Ganc	Down		
ENSRNOG00000024566	Sh3d21	Down		
ENSRNOG00000024580	Mamstr	Up		
ENSRNOG00000024595	Cers6		Up	
ENSRNOG00000024620	Mamdc2		Down	Up
ENSRNOG00000024630	Igsf23	Down		
ENSRNOG00000024632	Atf6	Up		
ENSRNOG00000024636	Gpr85	Up		
ENSRNOG00000024641	Nyap1	Up		Up
ENSRNOG00000024651	Greb1	Down		
ENSRNOG00000024657	Mfsd4a	Down	Down	
ENSRNOG00000024661	Jpt2	Up		
ENSRNOG00000024688	Erfe		Down	Up
ENSRNOG00000024689	Hopx		Down	
ENSRNOG00000024705	Rarres2		Down	Up
ENSRNOG00000024707	Tp73	Down		
ENSRNOG00000024717	Espnl	Up		Up
ENSRNOG00000024751	Macroh2a2	Down	Down	
ENSRNOG00000024757	Endod1	Up		
ENSRNOG00000024799	Cd93		Down	Up
ENSRNOG00000024808	Stk39	Down		
ENSRNOG00000024818	Eva1b	Down	Down	
ENSRNOG00000024839	Tysnd1	Down		
ENSRNOG00000024846	Ier5l	Up		Up
ENSRNOG00000024848	Fga	Up		Up
ENSRNOG00000024874	Prtfdc1		Down	
ENSRNOG00000024903	Slc7a13			Down
ENSRNOG00000024964	Nufip2	Up		
ENSRNOG00000024986	Mmrn1		Down	
ENSRNOG00000025042	Pde3a	Down	Down	
ENSRNOG00000025059	Nxph4	Down		Down
ENSRNOG00000025074	Fgg	Up		Up
ENSRNOG00000025088	Tmc3	Down		
ENSRNOG00000025108	Ankrd35	Down		

ENSRNOG00000025117	Noxo1	Up		
ENSRNOG00000025120	Gli1	Down		Down
ENSRNOG00000025130	Ltk	Up		Up
ENSRNOG00000025142	Mex3b	Up		Up
ENSRNOG00000025143	Icam2	Down	Down	
ENSRNOG00000025145	Rmdn1	Down		
ENSRNOG00000025164	Bhlha15	Down	Down	
ENSRNOG00000025167	Sema4b	Up		Up
ENSRNOG00000025184	Prss35	Down	Down	
ENSRNOG00000025209	Plxnd1		Down	
ENSRNOG00000025245	RGD1311946			Up
ENSRNOG00000025285	Gfm2	Down		
ENSRNOG00000025297	Gpr171	Up	Up	
ENSRNOG00000025350	Ppp1r13l	Up		Up
ENSRNOG00000025365	Ido2	Up		
ENSRNOG00000025370	Zfp385c	Down		
ENSRNOG00000025371	Spry1	Up		
ENSRNOG00000025377	Ankdd1b		Down	
ENSRNOG00000025454	Rrm2b	Down		
ENSRNOG00000025460	Tmem71	Down		
ENSRNOG00000025484	Tmem177	Down		Down
ENSRNOG00000025489	Pkd2l2	Down	Down	Down
ENSRNOG00000025498	Crb2		Down	
ENSRNOG00000025501	Snx31	Down		
ENSRNOG00000025504	Ankrd46	Down		
ENSRNOG00000025518	Carmil3	Down		
ENSRNOG00000025527	Mtcl1	Up		
ENSRNOG00000025571	Il19	Up		Up
ENSRNOG00000025584	Agap2	Down		
ENSRNOG00000025601	Topaz1			Down
ENSRNOG00000025608	Lrat			Up
ENSRNOG00000025624	Arhgap20	Up	Up	
ENSRNOG00000025625	Rnase4		Down	
ENSRNOG00000025643	Ccdc13	Down		
ENSRNOG00000025670	Shisa3			Down

ENSRNOG00000025679	Stk40	Up		Up
ENSRNOG00000025704	Yod1	Up		
ENSRNOG00000025705	Armex2		Down	
ENSRNOG00000025735	ENSRNOG00000025735	Down		
ENSRNOG00000025736	Tcf23	Down		
ENSRNOG00000025764	AC128848.1	Up		Up
ENSRNOG00000025781	Sec31b	Down		
ENSRNOG00000025793	Usp31	Up		
ENSRNOG00000025796	Brme1	Down		Down
ENSRNOG00000025823	Rbm46	Up		
ENSRNOG00000025848	Sspo	Down		Down
ENSRNOG00000025895	Cavin2	Down	Down	Down
ENSRNOG00000025899	Thada	Down		
ENSRNOG00000025930	Chst13	Down		
ENSRNOG00000025948	Inava	Up		Up
ENSRNOG00000025998	Crybg1	Up		
ENSRNOG00000026023	Taf4b	Up	Up	
ENSRNOG00000026037	Plb1	Up		Up
ENSRNOG00000026049	Qrs11	Down		
ENSRNOG00000026053	Grem1	Down	Down	
ENSRNOG00000026059	Paqr6		Down	
ENSRNOG00000026108	Tcof1	Up		
ENSRNOG00000026112	Tmem202	Up		
ENSRNOG00000026128	Cpne8	Up		Up
ENSRNOG00000026143	Ckap21	Down		
ENSRNOG00000026163	Cpt1c	Down	Down	
ENSRNOG00000026203	Pax8	Up		
ENSRNOG00000026217	Armc2	Down		
ENSRNOG00000026235	Hk3	Up		Up
ENSRNOG00000026236	Morc3	Up		
ENSRNOG00000026277	Zc3h6	Down	Down	
ENSRNOG00000026280	Mettl4	Down		
ENSRNOG00000026286	Nhlrc1	Down		
ENSRNOG00000026293	Jun	Up		Up
ENSRNOG00000026306	Clec5a	Down		

ENSRNOG00000026316	Wdr43	Up		
ENSRNOG00000026336	ENSRNOG00000026336		Down	Up
ENSRNOG00000026415	Col14a1	Down	Down	
ENSRNOG00000026420	Iqcg	Down	Down	
ENSRNOG00000026501	Slc6a19	Down	Down	
ENSRNOG00000026514	Wdr93	Down		
ENSRNOG00000026527	Snx32	Down	Down	
ENSRNOG00000026572	Zfp473	Down		Down
ENSRNOG00000026577	Cpne4			Down
ENSRNOG00000026585	Lrrc66			Down
ENSRNOG00000026592	Rhbd12	Up		Up
ENSRNOG00000026594	Tmem61	Down	Down	
ENSRNOG00000026605	Ifi2712b	Up		Up
ENSRNOG00000026643	Chordc1	Up	Up	
ENSRNOG00000026644	Glpr1	Down	Down	
ENSRNOG00000026647	Cxcl16	Up		Up
ENSRNOG00000026653	Hcar2	Up		Up
ENSRNOG00000026672	MGC94199	Down		
ENSRNOG00000026770	Tspy26	Down		
ENSRNOG00000026783	Smyd4	Down		
ENSRNOG00000026791	Pgbd5	Up		
ENSRNOG00000026805	Csf2	Up		
ENSRNOG00000026807	LOC362863	Down		
ENSRNOG00000026844	Lypd8	Up		Up
ENSRNOG00000026853	Urb2	Up		
ENSRNOG00000026861	Zscan18	Up		Up
ENSRNOG00000026866	Syn3	Down	Down	
ENSRNOG00000026898	Zbtb8b	Down		
ENSRNOG00000026910	Gjb4		Down	
ENSRNOG00000026914	Dnah1	Down		
ENSRNOG00000026936	Mpig6b	Down		
ENSRNOG00000026941	Tril	Down	Down	
ENSRNOG00000026953	Gpr88		Down	
ENSRNOG00000026963	Hsp90b1	Up	Up	
ENSRNOG00000026964	Gas8	Down	Down	

ENSRNOG00000026965	Tmem140	Up	Up	Up
ENSRNOG00000026978	Oscp1	Down		
ENSRNOG00000026985	Phldb1	Up		
ENSRNOG00000027002	NEWGENE_1310139	Up		
ENSRNOG00000027008	Igtp	Up	Up	Up
ENSRNOG00000027012	Usp54	Up		
ENSRNOG00000027024	Rgs16	Up		Up
ENSRNOG00000027030	Adm			Up
ENSRNOG00000027037	Alox12	Down	Down	
ENSRNOG00000027066	Stk32a	Down	Down	Down
ENSRNOG00000027139	Krt20	Up		
ENSRNOG00000027157	Ly6g6e	Down	Down	
ENSRNOG00000027228	Mogat2	Down	Down	
ENSRNOG00000027233	ENSRNOG00000027233	Down		Down
ENSRNOG00000027249	Fanc1	Down	Down	
ENSRNOG00000027295	LOC108348064	Down	Down	
ENSRNOG00000027357	Sox17		Down	
ENSRNOG00000027380	Upk1b	Down		
ENSRNOG00000027392	Ccdc187	Down		Down
ENSRNOG00000027433	LOC100910708	Up		Up
ENSRNOG00000027463	Adamts3	Down		
ENSRNOG00000027480	Tmem116	Down		Down
ENSRNOG00000027489	Mn1	Down	Down	
ENSRNOG00000027502	Nmi	Up	Up	Up
ENSRNOG00000027511	RGD1562272	Down	Down	
ENSRNOG00000027550	Mzf1	Down	Down	
ENSRNOG00000027592	Rerg			Up
ENSRNOG00000027697	Nmnat2	Up		Up
ENSRNOG00000027736	Cnn1	Down	Down	
ENSRNOG00000027742	Adamts12	Down	Down	
ENSRNOG00000027770	Trpm3	Down		Down
ENSRNOG00000027787	Cdc6		Down	
ENSRNOG00000027799	Tmie	Down	Down	
ENSRNOG00000027801	Zpbp	Down	Down	
ENSRNOG00000027808	Lilra5	Down		

ENSRNOG00000027831	Map7d3	Down		
ENSRNOG00000027833	Fnip2	Up		
ENSRNOG00000027847	Nxpe2		Down	Up
ENSRNOG00000027859	Tmem26		Down	
ENSRNOG00000027871	Rapgef1	Down	Down	
ENSRNOG00000027891	Dhrs11	Down		
ENSRNOG00000027936	Ccdc8		Down	
ENSRNOG00000027940	Plppr3	Down	Down	
ENSRNOG00000027942	Eps81	Down	Down	
ENSRNOG00000027949	Rfx6	Down		
ENSRNOG00000027962	Smg7	Up		
ENSRNOG00000027971	Lrrc31	Down	Down	
ENSRNOG00000027990	Crip1	Down	Down	
ENSRNOG00000028043	Cxcl3	Up		Up
ENSRNOG00000028075	Dnaaf8	Down	Down	
ENSRNOG00000028082	Tal2	Down		
ENSRNOG00000028100	Pex11g	Down		
ENSRNOG00000028108	Cytl1	Down	Down	
ENSRNOG00000028113	Whamm	Up		
ENSRNOG00000028137	Mki67			Down
ENSRNOG00000028155	Dnaaf2	Up	Up	Up
ENSRNOG00000028185	Tstd3	Down		
ENSRNOG00000028207	Colgalt2	Down	Down	
ENSRNOG00000028225	Tnni3k	Down	Down	
ENSRNOG00000028243	LOC103694875	Up	Up	
ENSRNOG00000028247	Ankrd13d	Down	Down	
ENSRNOG00000028255	Usp36	Up		
ENSRNOG00000028261	Tppp	Down	Down	
ENSRNOG00000028341	Alkbh5	Up		
ENSRNOG00000028344	Mmp11	Down	Down	
ENSRNOG00000028386	RGD1564162		Down	
ENSRNOG00000028404	Ppp1r1b	Down	Down	Down
ENSRNOG00000028415	Cdc20	Down		
ENSRNOG00000028426	Mcf2l	Down	Down	
ENSRNOG00000028440	Apcdd1l	Down	Down	

ENSRNOG00000028441	LOC103690173	Up		Up
ENSRNOG00000028461	Gnl3	Up		
ENSRNOG00000028521	Plekhn1	Up		
ENSRNOG00000028526	Mansc1	Down	Down	
ENSRNOG00000028566	Pld4	Down	Down	
ENSRNOG00000028569	Arhgap27	Down		
ENSRNOG00000028582	LOC688389			Down
ENSRNOG00000028584	Alkbh2	Down		
ENSRNOG00000028616	Pck1	Down	Down	
ENSRNOG00000028624	Kif26b	Up		Up
ENSRNOG00000028630	Ksr2	Down		
ENSRNOG00000028651	RGD1566386	Down		
ENSRNOG00000028652	Map10	Down		Down
ENSRNOG00000028661	Ctcf1	Down	Down	
ENSRNOG00000028662	Zfp69	Down		
ENSRNOG00000028690	LOC100362366			Up
ENSRNOG00000028701	C8g	Down		
ENSRNOG00000028713	Acvrl1		Down	
ENSRNOG00000028768	Gbp4	Up	Up	Up
ENSRNOG00000028774	Vgl13	Down	Down	
ENSRNOG00000028781	Abcc6	Down		Down
ENSRNOG00000028814	Oasl2	Up	Up	Up
ENSRNOG00000028872	Rai14	Up		Up
ENSRNOG00000028896	LOC100911545	Up		Up
ENSRNOG00000028910	Ccdc9b	Down	Down	
ENSRNOG00000028930	Dab2	Up		
ENSRNOG00000029055	Ttk	Down		
ENSRNOG00000029079	Hspb7	Down	Down	
ENSRNOG00000029106	Usp26	Down		Down
ENSRNOG00000029128	Cyp2d5	Down		
ENSRNOG00000029131	Frmpd2	Down	Down	
ENSRNOG00000029134	Adgr11	Down		
ENSRNOG00000029141	Trabd2b	Down		
ENSRNOG00000029148	Pdgfd	Down		Down
ENSRNOG00000029165	Stx1a	Up		Up

ENSRNOG00000029191	LOC685067	Up		Up
ENSRNOG00000029195	Uba7	Up	Up	Up
ENSRNOG00000029235	Sfmbt2	Up		
ENSRNOG00000029264	Kcnn1	Down		
ENSRNOG00000029308	Irag2	Down	Down	
ENSRNOG00000029316	Gtf2f2	Up		
ENSRNOG00000029342	Scn7a	Down		
ENSRNOG00000029394	Dusp8	Up		Up
ENSRNOG00000029399	Beam		Down	Up
ENSRNOG00000029401	Actg2	Down	Down	
ENSRNOG00000029427	Grhl3	Down	Down	
ENSRNOG00000029449	Ror1		Down	
ENSRNOG00000029465	Slc26a10	Down	Down	
ENSRNOG00000029500	Tapbp	Up	Up	Up
ENSRNOG00000029514	Slc26a9	Up		Up
ENSRNOG00000029528	Cbs	Down		
ENSRNOG00000029529	Eef1akmt4	Up		
ENSRNOG00000029543	Cish	Up		
ENSRNOG00000029571	Coq10a	Down		
ENSRNOG00000029582	ENSRNOG00000029582	Down		
ENSRNOG00000029590	Spatc1	Down		Down
ENSRNOG00000029628	Arl9	Up		
ENSRNOG00000029644	Clec2l	Down	Down	
ENSRNOG00000029651	Rdh16	Down		
ENSRNOG00000029658	Rnf213	Up	Up	Up
ENSRNOG00000029662	Wdfy4	Down		
ENSRNOG00000029682	Clic1	Up		
ENSRNOG00000029740	Slc35g1		Down	Up
ENSRNOG00000029784	Pak1	Up		
ENSRNOG00000029792	Ogn	Down	Down	
ENSRNOG00000029844	Akr1c2	Up		
ENSRNOG00000029871	Slc8a3	Down		
ENSRNOG00000029889	Clca4			Up
ENSRNOG00000029893	Rwdd3	Down		
ENSRNOG00000029911	Cilp	Down		

ENSRNOG00000029912	Septin5	Down		
ENSRNOG00000029938	Pik3c2b	Down	Down	
ENSRNOG00000029939	Gypc			Up
ENSRNOG00000029949	Serpina3n	Up		Up
ENSRNOG00000029980	Zbtb16		Down	
ENSRNOG00000029993	Kynu	Down		
ENSRNOG00000030012	Clec4a2	Down	Down	
ENSRNOG00000030016	Robo3	Up		
ENSRNOG00000030022	Myo3b	Down		
ENSRNOG00000030027	Fbxw17	Up		
ENSRNOG00000030034	Sox11	Up	Up	Up
ENSRNOG00000030149	Adgrl3		Down	
ENSRNOG00000030160	Zfp819	Up		
ENSRNOG00000030187	Mmp12	Up		
ENSRNOG00000030210	Fndc1	Down		
ENSRNOG00000030238	Fndc5	Down		
ENSRNOG00000030269	Atp2b2	Down		
ENSRNOG00000030387	Kngr1	Up		Up
ENSRNOG00000030404	Arrb1	Down		
ENSRNOG00000030447	Fndc10	Down		
ENSRNOG00000030467	Ube2l6	Up	Up	Up
ENSRNOG00000030475	ENSRNOG00000030475	Down	Down	
ENSRNOG00000030476	LOC100360449	Up		Up
ENSRNOG00000030478	AY172581.9	Up		
ENSRNOG00000030517	Zfp879	Down		
ENSRNOG00000030547	Dpp6	Down		
ENSRNOG00000030568	Rgs12		Down	
ENSRNOG00000030616	Slc25a45	Down		
ENSRNOG00000030625	Tf	Up		
ENSRNOG00000030688	Lrrc2	Up		Up
ENSRNOG00000030712	RT1-CE1	Up		Up
ENSRNOG00000030771	Dgkb	Down		
ENSRNOG00000030776	Sytl2		Up	
ENSRNOG00000030830	Mex3d	Up		
ENSRNOG00000030888	Rela	Up		

ENSRNOG00000030914	Lexm	Up		Up
ENSRNOG00000030927	Grid2ip	Down		
ENSRNOG00000031058	ENSRNOG00000031058		Down	
ENSRNOG00000031081	Stat2	Up	Up	Up
ENSRNOG00000031126	Tecta	Down		Down
ENSRNOG00000031138	Irgm	Up	Up	Up
ENSRNOG00000031162	Ccl24	Down		
ENSRNOG00000031163	Nfkbiz	Up		Up
ENSRNOG00000031167	ENSRNOG00000031167	Up		Up
ENSRNOG00000031189	Ido1	Up		
ENSRNOG00000031202	Trim30c	Up	Up	Up
ENSRNOG00000031211	Acsn5	Down		
ENSRNOG00000031233	Mapk12	Down	Down	
ENSRNOG00000031247	Lekr1	Down		
ENSRNOG00000031266	Siae	Down		
ENSRNOG00000031290	Trappc3l	Down		
ENSRNOG00000031312	Tnfrsf1a	Up		Up
ENSRNOG00000031325	Abi1	Up		
ENSRNOG00000031348	Tmem232	Down		Down
ENSRNOG00000031378	LOC120100784	Up		
ENSRNOG00000031421	Eif1a	Up		
ENSRNOG00000031437	Slurp2	Up		Up
ENSRNOG00000031448	Stpg1	Down	Down	
ENSRNOG00000031475	Col16a1		Down	
ENSRNOG00000031494	Armhl			Down
ENSRNOG00000031544	Larp1	Up		
ENSRNOG00000031569	Zfp648	Down		
ENSRNOG00000031576	Zfp455		Up	
ENSRNOG00000031607	LOC120093125	Up		Up
ENSRNOG00000031638	ENSRNOG00000031638	Down		
ENSRNOG00000031643	Dchs1	Down	Down	
ENSRNOG00000031665	ENSRNOG00000031665	Down		
ENSRNOG00000031689	Trim15	Up		Up
ENSRNOG00000031739	Fam71e1	Down	Down	
ENSRNOG00000031743	Gbp2	Up	Up	Up

ENSRNOG00000031785	Krt76	Down	Down	
ENSRNOG00000031789	Rangap1	Up		
ENSRNOG00000031814	Sort1	Down	Down	
ENSRNOG00000031824	Slc44a2		Down	
ENSRNOG00000031834	Nkain4		Down	
ENSRNOG00000031849	Armh4		Down	
ENSRNOG00000031851	Ndufa4l2		Down	
ENSRNOG00000031890	Ncam1		Down	
ENSRNOG00000031934	Enah	Up		
ENSRNOG00000032026	LOC102555469	Down		
ENSRNOG00000032058	Pogk	Up		
ENSRNOG00000032085	Dlec1	Down		
ENSRNOG00000032202	Creb3l3	Down	Down	
ENSRNOG00000032231	Mroh6	Down		
ENSRNOG00000032240	Gbp5	Up	Up	Up
ENSRNOG00000032258	Swt1	Up		
ENSRNOG00000032261	Cyp2d4	Down		
ENSRNOG00000032350	Kcnip4	Down		
ENSRNOG00000032375	Capn13	Down	Down	
ENSRNOG00000032378	Atp1a4	Down		Down
ENSRNOG00000032396	RGD1559575	Up		Up
ENSRNOG00000032410	Mtus2	Up		
ENSRNOG00000032508	Acot5		Down	
ENSRNOG00000032539	Spag8	Down		Down
ENSRNOG00000032546	Dot1l	Up		
ENSRNOG00000032554	Scd4	Down		
ENSRNOG00000032590	Ttc28	Down	Down	
ENSRNOG00000032596	RT1-T24-3	Up		Up
ENSRNOG00000032626	Mmp3	Up		Up
ENSRNOG00000032639	Foxo6	Up		
ENSRNOG00000032659	Plcl1	Down	Down	
ENSRNOG00000032669	Serpina1	Up	Up	
ENSRNOG00000032768	Stxbp4	Down		
ENSRNOG00000032778	Bub1	Down		
ENSRNOG00000032788	Dysf	Down	Down	

ENSRNOG00000032798	Slco3a1	Up		
ENSRNOG00000032805	Cyp2f4	Down	Down	
ENSRNOG00000032871	Mlc1	Down		
ENSRNOG00000032917	Zfand2a	Up		Up
ENSRNOG00000032922	ENSRNOG00000032922	Up		Up
ENSRNOG00000032930	Trim26	Up		
ENSRNOG00000032946	Pdzd7	Down		
ENSRNOG00000032994	Myom3	Down		
ENSRNOG00000033010	Akr1c12	Down		
ENSRNOG00000033026	Dclk3	Down	Down	
ENSRNOG00000033090	Ltbp1		Down	Up
ENSRNOG00000033110	Svep1	Down	Down	
ENSRNOG00000033119	Plcb4	Down	Down	
ENSRNOG00000033134	Mef2c	Down		
ENSRNOG00000033143	Cep295nl		Down	
ENSRNOG00000033146	LOC100360843			Up
ENSRNOG00000033153	Sfn	Up		Up
ENSRNOG00000033192	Osmr	Up		Up
ENSRNOG00000033195	A1cf	Down		Down
ENSRNOG00000033220	Oas1b	Up	Up	Up
ENSRNOG00000033234	Ccr12	Up		Up
ENSRNOG00000033235	Relb	Up		Up
ENSRNOG00000033256	LOC691141	Up		
ENSRNOG00000033261	Fam107a	Down		
ENSRNOG00000033330	Skida1	Down		
ENSRNOG00000033338	Gimap6		Down	
ENSRNOG00000033343	Prss36	Down		
ENSRNOG00000033348	Duox1	Down		
ENSRNOG00000033402	Gsta6		Down	
ENSRNOG00000033433	Csrnp1	Up		Up
ENSRNOG00000033434	Casp12	Up	Up	Up
ENSRNOG00000033444	F10	Up		
ENSRNOG00000033445	Ccdc171	Down		Down
ENSRNOG00000033490	Vsig2	Down	Down	
ENSRNOG00000033496	Igdcc4	Down		

ENSRNOG00000033520	Wdr97	Up	Up	
ENSRNOG00000033564	Cfd	Down	Down	
ENSRNOG00000033570	Arhgap8	Up		Up
ENSRNOG00000033573	Sgk2	Down		
ENSRNOG00000033575	Emid1	Down	Down	
ENSRNOG00000033579	Glt8d2	Down	Down	
ENSRNOG00000033653	Mpp3		Down	
ENSRNOG00000033693	AC135826.1	Up		
ENSRNOG00000033697	Casp4	Up	Up	Up
ENSRNOG00000033722	Rnf207	Down		
ENSRNOG00000033740	Lurap11	Up	Up	
ENSRNOG00000033741	Ankrd34a	Down		
ENSRNOG00000033744	Rasgrp4	Down	Down	
ENSRNOG00000033747	Sp110	Up	Up	Up
ENSRNOG00000033772	Serpinb9	Up		Up
ENSRNOG00000033791	Apc2	Down		
ENSRNOG00000033809	Mlh1	Down		
ENSRNOG00000033830	Slc7a12	Down		Down
ENSRNOG00000033883	Stard8	Down		Down
ENSRNOG00000033940	Adgrl4		Down	
ENSRNOG00000033984	Ifnlr1	Up		Up
ENSRNOG00000034007	Nr3c2	Down	Down	
ENSRNOG00000034025	Ptprj	Up		
ENSRNOG00000034038	AABR07005844.1	Down		
ENSRNOG00000034066	Hspa8	Up		
ENSRNOG00000034089	Ttc21a	Down		Down
ENSRNOG00000034102	Plk5		Down	
ENSRNOG00000034177	Efna5	Up		
ENSRNOG00000034191	Fmo1	Down		
ENSRNOG00000034200	Atp8a1	Up		
ENSRNOG00000034236	C2cd4a	Up		Up
ENSRNOG00000034290	Ccl21		Down	
ENSRNOG00000036604	Ifit2	Up	Up	Up
ENSRNOG00000036608	Mlana	Down		Down
ENSRNOG00000036659	Fn3k	Down	Down	

ENSRNOG00000036660	Fn3krp	Down		
ENSRNOG00000036661	Rab40b	Down	Down	
ENSRNOG00000036666	Cybc1	Up	Up	
ENSRNOG00000036676	Csnk1d	Up		
ENSRNOG00000036677	Slc16a3		Down	Up
ENSRNOG00000036680	Notum		Down	
ENSRNOG00000036687	Alyref	Up		
ENSRNOG00000036693	Slc25a10	Down		
ENSRNOG00000036697	Mafg	Up		
ENSRNOG00000036711	Spn	Down	Down	Down
ENSRNOG00000036813	LOC679863	Down		
ENSRNOG00000036826	Glycam1	Up		Up
ENSRNOG00000036827	Ppp1r1a	Down	Down	Down
ENSRNOG00000036828	Pdelb	Down	Down	
ENSRNOG00000036856	Rnf223			Up
ENSRNOG00000036880	Arl5c	Up		
ENSRNOG00000036894	Cisd3	Down		
ENSRNOG00000036913	Resf1	Up		
ENSRNOG00000036942	Tnfrsf9	Up		Up
ENSRNOG00000036960	Abcc9	Down	Down	
ENSRNOG00000036984	Slco1a1			Down
ENSRNOG00000037113	Slfn2	Up		Up
ENSRNOG00000037134	Shc4	Up		
ENSRNOG00000037148	Adap2	Down	Down	
ENSRNOG00000037156	Mrgprx1	Down		
ENSRNOG00000037160	Bloc1s6	Down		
ENSRNOG00000037167	Rtp3	Up		Up
ENSRNOG00000037198	Usp18	Up	Up	Up
ENSRNOG00000037199	Spink8	Down		
ENSRNOG00000037204	Lym9	Down	Down	
ENSRNOG00000037206	Ccdc77	Down		
ENSRNOG00000037225	Tyms	Down	Down	Down
ENSRNOG00000037251	Zfp248	Down		
ENSRNOG00000037299	Smpd5		Down	
ENSRNOG00000037302	Rad51	Up	Up	

ENSRNOG00000037307	Spata22	Down		
ENSRNOG00000037331	Cd33			Up
ENSRNOG00000037371	Xaf1	Up	Up	Up
ENSRNOG00000037374	Ly6al			Up
ENSRNOG00000037375	RGD1565410	Down		
ENSRNOG00000037409	Scimp	Up		Up
ENSRNOG00000037437	Golga3	Up		
ENSRNOG00000037443	Pgam5	Up		
ENSRNOG00000037449	Pole	Down		
ENSRNOG00000037483	Ep400	Up		
ENSRNOG00000037508	Hscb		Down	
ENSRNOG00000037562	Zbtb42	Up		Up
ENSRNOG00000037563	Cd68			Up
ENSRNOG00000037600	Sim1	Down		
ENSRNOG00000037604	Ascc3	Up	Up	
ENSRNOG00000037618	ENSRNOG00000037618	Down		
ENSRNOG00000037620	Mob3c	Up		
ENSRNOG00000037661	ENSRNOG00000037661		Down	
ENSRNOG00000037668	Ccdc162			Down
ENSRNOG00000037707	Armex6		Down	
ENSRNOG00000037718	Cfap52	Down	Down	
ENSRNOG00000037753	Slc10a2	Up		
ENSRNOG00000037757	Calhm6	Up		Up
ENSRNOG00000037798	Erich4	Down		
ENSRNOG00000037814	Cxcl17	Up	Up	Up
ENSRNOG00000037835	Catip	Down	Down	
ENSRNOG00000037871	Sfxn5	Down		
ENSRNOG00000037884	Oxgr1	Down	Down	
ENSRNOG00000037931	Plaur	Up		Up
ENSRNOG00000037957	Aifm3	Down		
ENSRNOG00000037982	Tmem236	Down	Down	Down
ENSRNOG00000038044	Tsc22d2	Up		Up
ENSRNOG00000038047	LOC100125598	Up		Up
ENSRNOG00000038055	Slc47a2	Down		
ENSRNOG00000038068	Pcdh9	Down		

ENSRNOG00000038102	Elmod3	Down		
ENSRNOG00000038106	ENSRNOG00000038106		Up	
ENSRNOG00000038165	Pjvk	Down	Down	
ENSRNOG00000038166	Ptgr2	Down		
ENSRNOG00000038225	Fbxo15	Down		
ENSRNOG00000038258	Upb1	Down		
ENSRNOG00000038297	Plekhd1			Up
ENSRNOG00000038319	Akr1c19	Down	Down	
ENSRNOG00000038330	RGD1359508	Down		
ENSRNOG00000038445	Rnf225	Up		
ENSRNOG00000038483	AABR07018323.1	Up		
ENSRNOG00000038720	Cdk11	Down	Down	
ENSRNOG00000038819	RGD1564308	Down		
ENSRNOG00000038896	Upk3bl1		Down	Up
ENSRNOG00000038955	MGC105567	Up	Up	Up
ENSRNOG00000038957	RGD1305184	Up	Up	Up
ENSRNOG00000038999	RT1-CE11	Up		Up
ENSRNOG00000039017	Naa50	Up		
ENSRNOG00000039207	Ccdc71l	Up		Up
ENSRNOG00000039284	Haus4	Down	Down	
ENSRNOG00000039357	Niban3	Down	Down	
ENSRNOG00000039379	C17h6orf52		Up	
ENSRNOG00000039390	Slc37a2	Down		
ENSRNOG00000039415	Fchsd1	Up		Up
ENSRNOG00000039496	ENSRNOG00000039496	Up		Up
ENSRNOG00000039551	Rdh14	Down		
ENSRNOG00000039593	Ecsr	Up		Up
ENSRNOG00000039596	Prob1	Down		
ENSRNOG00000039668	Col8a1	Up		Up
ENSRNOG00000039698	Prss22			Up
ENSRNOG00000039837	Jade3		Up	
ENSRNOG00000039858	Mfsd12	Up		
ENSRNOG00000039860	AC126960.1	Up		Up
ENSRNOG00000039902	Lbh		Down	
ENSRNOG00000039924	Triqk	Down	Down	

ENSRNOG00000039969	Dsc2	Up		
ENSRNOG00000039971	Ctla2a		Down	
ENSRNOG00000039976	Ptk7		Down	
ENSRNOG00000040120	Bhmt2	Down		
ENSRNOG00000040122	Myoz1	Down	Down	
ENSRNOG00000040205	Zcchc24	Down	Down	
ENSRNOG00000040242	Epm2a	Down		
ENSRNOG00000040266	Cdkl4	Down	Down	
ENSRNOG00000040287	Cyp1b1			Up
ENSRNOG00000042029	Efs		Down	
ENSRNOG00000042041	Gal3st1	Down	Down	Down
ENSRNOG00000042068	Otud7b	Up		
ENSRNOG00000042070	Ticam2	Down		
ENSRNOG00000042078	Icam4	Up		
ENSRNOG00000042084	Acsml	Down		
ENSRNOG00000042094	Prr13	Up		
ENSRNOG00000042137	Sting1	Up		Up
ENSRNOG00000042139	Clec4a1	Down	Down	
ENSRNOG00000042140	Eomes	Up		
ENSRNOG00000042189	Rab31		Down	
ENSRNOG00000042229	Gimap1		Down	
ENSRNOG00000042230	RGD1307182	Up	Up	Up
ENSRNOG00000042258	RGD1561157	Up		
ENSRNOG00000042276	Trappc2	Down	Down	
ENSRNOG00000042289	Plcx2	Up		Up
ENSRNOG00000042353	Mkl1	Up	Up	Up
ENSRNOG00000042384	Kctd7	Down		
ENSRNOG00000042389	Bcl10	Up		
ENSRNOG00000042445	Myo15b	Down		
ENSRNOG00000042455	Tlr12	Down	Down	Down
ENSRNOG00000042496	Cyp4f5		Down	Up
ENSRNOG00000042524	Milr1	Up		
ENSRNOG00000042576	Tcp1l1l	Up		
ENSRNOG00000042580	ENSRNOG00000042580	Down		
ENSRNOG00000042592	Rgs10	Down		

ENSRNOG00000042601	Zglp1	Up		Up
ENSRNOG00000042620	Marveld1	Down	Down	
ENSRNOG00000042658	Nxnl1	Down		
ENSRNOG00000042679	Lcor	Up		
ENSRNOG00000042686	Trim34	Up		
ENSRNOG00000042690	Zmat4	Down	Down	
ENSRNOG00000042741	Adgb	Up		
ENSRNOG00000042771	Apol3	Up		
ENSRNOG00000042848	Jam2		Down	
ENSRNOG00000042860	Pappa2	Down		Down
ENSRNOG00000042888	Cdyl2	Up		Up
ENSRNOG00000042905	RT1-T24-4	Up		Up
ENSRNOG00000042912	Mycbpap	Down	Down	
ENSRNOG00000042918	RGD1304770	Down		Down
ENSRNOG00000042960	Rgcc	Down	Down	
ENSRNOG00000042962	Pdss2	Down		
ENSRNOG00000042975	Tmem45a1		Down	
ENSRNOG00000042980	Adam19		Down	
ENSRNOG00000043023	Msmg	Down	Down	
ENSRNOG00000043031	Rd3l	Down		
ENSRNOG00000043088	Ceacam19	Up		
ENSRNOG00000043098	Mt2A	Up		Up
ENSRNOG00000043099	Ddx21	Up		
ENSRNOG00000043102	Bahcc1	Down		
ENSRNOG00000043128	Armex4	Down	Down	
ENSRNOG00000043137	Lbhd2		Down	Up
ENSRNOG00000043151	Cntln	Down	Down	
ENSRNOG00000043201	Coq8a	Down	Down	
ENSRNOG00000043304	Apcdd1	Down	Down	
ENSRNOG00000043324	Upk2	Down		
ENSRNOG00000043331	Ankrd65	Down		
ENSRNOG00000043332	Foxd1		Down	
ENSRNOG00000043342	LOC290595	Up	Up	Up
ENSRNOG00000043350	Cap2	Down		
ENSRNOG00000043370	Fubp1	Up		

ENSRNOG00000043410	Cfap300	Down		
ENSRNOG00000043416	Bcl3	Up	Up	Up
ENSRNOG00000043451	Spp1	Up		Up
ENSRNOG00000043465	Arc	Down	Down	Up
ENSRNOG00000043486	Tnfrsf26			Up
ENSRNOG00000043866	AY172581.24	Up		Up
ENSRNOG00000045543	Frat2	Up		Up
ENSRNOG00000045554	LOC102551901		Down	
ENSRNOG00000045558	Cd34	Down	Down	
ENSRNOG00000045560	Gvin1	Up		
ENSRNOG00000045629	Atp23	Down		
ENSRNOG00000045639	RGD1560883	Down		
ENSRNOG00000045654	ENSRNOG00000045654	Up		Up
ENSRNOG00000045668	Ifnar2	Up		
ENSRNOG00000045677	Nlrp6	Down		Down
ENSRNOG00000045683	Mfap4	Down	Down	
ENSRNOG00000045728	AABR07033887.1	Up		Up
ENSRNOG00000045738	Ak4	Down		
ENSRNOG00000045743	Etnppl	Down		
ENSRNOG00000045797	Lep	Down		
ENSRNOG00000045821	Slc41a3	Down		
ENSRNOG00000045829	Thbs1	Up		Up
ENSRNOG00000045831	LOC100909784	Down	Down	
ENSRNOG00000045838	Hps1	Down		
ENSRNOG00000045846	Rfx2	Down	Down	
ENSRNOG00000045895	LOC100912393	Up	Up	
ENSRNOG00000045913	Prdm16	Down		
ENSRNOG00000045961	Lym7	Down		Down
ENSRNOG00000045992	ENSRNOG00000045992	Down	Down	
ENSRNOG00000045998	Sema6b			Up
ENSRNOG00000046001	AABR07030823.1	Down	Down	
ENSRNOG00000046005	Scd2	Down	Down	
ENSRNOG00000046036	Itrip1	Up		Up
ENSRNOG00000046050	ENSRNOG00000046050	Down	Down	
ENSRNOG00000046086	Tmc8		Down	

ENSRNOG00000046112	Dedd2	Up		
ENSRNOG00000046181	Anks4b	Down	Down	
ENSRNOG00000046191	Cgas	Up		Up
ENSRNOG00000046196	Icos	Down		
ENSRNOG00000046204	Tspan15			Up
ENSRNOG00000046214	Cyp27b1	Up		
ENSRNOG00000046231	Cacna1s		Down	
ENSRNOG00000046242	LOC120094803			Up
ENSRNOG00000046280	Tceal5	Down	Down	
ENSRNOG00000046307	Glyctk	Down	Down	
ENSRNOG00000046343	Cryga	Down		
ENSRNOG00000046361	NEWGENE_1587253	Down		
ENSRNOG00000046428	Lrrc75b	Down		
ENSRNOG00000046439	Vps37c	Up		
ENSRNOG00000046449	Npy			Up
ENSRNOG00000046452	Fcgr2b	Up		Up
ENSRNOG00000046455	LOC102554457	Down		
ENSRNOG00000046479	Chaf1a	Down		
ENSRNOG00000046482	Znf750	Down	Down	
ENSRNOG00000046484	ENSRNOG00000046484	Down		Down
ENSRNOG00000046493	Pnpo	Down		
ENSRNOG00000046535	Ppm1m	Down	Down	
ENSRNOG00000046639	Itgae	Down		Down
ENSRNOG00000046643	Cyp3a9	Up		Up
ENSRNOG00000046652	LOC108348102	Up		
ENSRNOG00000046655	Prrt1b	Down		
ENSRNOG00000046662	ENSRNOG00000046662	Down		
ENSRNOG00000046663	LOC103693683	Up		Up
ENSRNOG00000046667	Fosb	Up		Up
ENSRNOG00000046683	Lilrb3	Down		
ENSRNOG00000046699	Slpi	Up		
ENSRNOG00000046727	Abcc2	Up		Up
ENSRNOG00000046744	Ankrd29	Down	Down	
ENSRNOG00000046772	Fam83c	Down	Down	
ENSRNOG00000046834	C3	Up		Up

ENSRNOG00000046848	PCOLCE2	Up	Up	
ENSRNOG00000046858	MGC109340	Down		
ENSRNOG00000046946	Ptchd3	Up		
ENSRNOG00000046947	Ak5	Down	Down	
ENSRNOG00000046949	Kcnb1	Down		
ENSRNOG00000046958	Abo	Down		
ENSRNOG00000046975	Sult4a1		Up	
ENSRNOG00000047005	Kcnk5	Up		Up
ENSRNOG00000047023	Aldh1l1	Down		
ENSRNOG00000047027	Unc93a	Down		Down
ENSRNOG00000047046	Plin4	Down		Down
ENSRNOG00000047061	Zfp773-ps1		Up	Down
ENSRNOG00000047089	Alkbh7	Down	Down	
ENSRNOG00000047100	LOC367975	Down	Down	
ENSRNOG00000047106	Mtrf1	Down		
ENSRNOG00000047143	Fkbp1b	Down		
ENSRNOG00000047158	LOC103689947	Down		
ENSRNOG00000047175	Cryaa	Up		Up
ENSRNOG00000047191	Myo1h			Down
ENSRNOG00000047218	Clic5		Down	
ENSRNOG00000047229	Trim68	Down		
ENSRNOG00000047247	Ptprs		Down	
ENSRNOG00000047276	LOC100362738	Up		Up
ENSRNOG00000047307	Cntfr	Down		
ENSRNOG00000047367	Card14	Up	Up	Up
ENSRNOG00000047393	Krt18	Up		Up
ENSRNOG00000047459	H1f4			Up
ENSRNOG00000047491	AABR07037520.1	Down		Down
ENSRNOG00000047505	Tubb4a		Down	
ENSRNOG00000047513	Mdn1	Up	Up	
ENSRNOG00000047545	Adra2a	Down	Down	
ENSRNOG00000047573	LOC108348114	Up		
ENSRNOG00000047578	Ccdc28b	Down	Down	
ENSRNOG00000047594	Heatr1	Up		
ENSRNOG00000047606	Bcl2a1	Up	Up	Up

ENSRNOG00000047618	LOC100910196	Down		
ENSRNOG00000047635	Tmem178b	Down		
ENSRNOG00000047647	Il2ra	Up		Up
ENSRNOG00000047706	LOC103690108	Up	Up	Up
ENSRNOG00000047734	Chst2	Down	Down	
ENSRNOG00000047741	E2f2	Down		
ENSRNOG00000047783	Tmem200a	Up		
ENSRNOG00000047799	Gnb5	Down	Down	
ENSRNOG00000047817	Enox1	Down	Down	
ENSRNOG00000047860	Plin5	Down	Down	
ENSRNOG00000047867	Klhdc8b	Down	Down	
ENSRNOG00000047877	AABR07064622.1	Down		
ENSRNOG00000047894	AABR07034648.1	Down		
ENSRNOG00000047907	LOC100912585	Up		
ENSRNOG00000047931	ENSRNOG00000047931			Up
ENSRNOG00000047940	Mmp28	Down		
ENSRNOG00000047960	Rab9b		Down	Up
ENSRNOG00000047967	Arhgef19	Down	Down	Down
ENSRNOG00000047977	Tcim	Up		Up
ENSRNOG00000048004	Garem2	Up	Up	
ENSRNOG00000048050	Tmem120b	Down	Down	
ENSRNOG00000048053	AC128859.3	Up		Up
ENSRNOG00000048056	LOC100911109		Down	
ENSRNOG00000048113	Cbx8	Down		
ENSRNOG00000048166	Arhgap19	Down		
ENSRNOG00000048187	Epop	Up		Up
ENSRNOG00000048191	LOC100909605	Up		
ENSRNOG00000048195	Nudt13	Down		
ENSRNOG00000048222	Nlrc5	Up	Up	Up
ENSRNOG00000048264	H4f3		Down	
ENSRNOG00000048295	AABR07039229.2	Down	Down	
ENSRNOG00000048297	Qk	Up		
ENSRNOG00000048315	Eif2ak2	Up	Up	Up
ENSRNOG00000048321	Tnfsf8		Down	Up
ENSRNOG00000048356	RGD1308750	Up		

ENSRNOG00000048397	Sephs2	Down		
ENSRNOG00000048412	Fam181a	Down	Down	
ENSRNOG00000048430	Myo18b	Down		
ENSRNOG00000048431	Nynrin	Down	Down	
ENSRNOG00000048449	Itgb3		Down	Up
ENSRNOG00000048450	Cyp4f37		Down	
ENSRNOG00000048495	Rrp12	Up		Up
ENSRNOG00000048577	Zfp955a	Down		
ENSRNOG00000048636	Il2rb	Up		
ENSRNOG00000048651	Nrtn		Down	
ENSRNOG00000048726	Clec2d	Up		Up
ENSRNOG00000048733	Nup62	Up		
ENSRNOG00000048769	Nek5		Down	
ENSRNOG00000048818	Catsperd	Down	Down	
ENSRNOG00000048850	AABR07058441.1	Down		Down
ENSRNOG00000048874	Gckr	Up		
ENSRNOG00000048881	RGD1561730	Down	Down	
ENSRNOG00000048898	Wasf3	Down		Down
ENSRNOG00000048924	Islr	Down	Down	
ENSRNOG00000048929	AABR07044389.1	Up		
ENSRNOG00000048949	LOC102549542	Down	Down	
ENSRNOG00000048951	LOC100364500	Up	Up	Up
ENSRNOG00000048967	LOC688459			Up
ENSRNOG00000048980	Gng2	Up		Up
ENSRNOG00000048981	Ahsa1	Up	Up	
ENSRNOG00000048987	Sfta2	Down		
ENSRNOG00000049033	Racgap1	Down	Down	
ENSRNOG00000049034	Pthr1	Up		Up
ENSRNOG00000049056	AABR07051450.1	Down	Down	
ENSRNOG00000049063	Slc16a9	Down	Down	Down
ENSRNOG00000049075	ENSRNOG00000049075	Up		
ENSRNOG00000049115	Ccr5			Up
ENSRNOG00000049121	Bysl	Up		
ENSRNOG00000049236	Myh9l1	Up		Up
ENSRNOG00000049244	Sepsecs	Down		

ENSRNOG00000049270	Ppp2r3b	Up		
ENSRNOG00000049282	Oas2	Up		Up
ENSRNOG00000049289	LOC100911068			Up
ENSRNOG00000049331	LOC685048	Down	Down	
ENSRNOG00000049334	Atp2c2	Down		
ENSRNOG00000049351	Nat8l	Down		
ENSRNOG00000049385	Adamtsl4	Up		
ENSRNOG00000049402	Nbl1		Down	
ENSRNOG00000049410	Chrm3	Down	Down	
ENSRNOG00000049425	Fam167b		Down	
ENSRNOG00000049471	Steap3	Down		
ENSRNOG00000049489	LOC102552166	Up		
ENSRNOG00000049497	Eif6	Up		
ENSRNOG00000049517	Tnfaip3	Up		Up
ENSRNOG00000049605	Zfp296	Up		
ENSRNOG00000049615	Fam228b	Down		
ENSRNOG00000049629	Reep2	Up		Up
ENSRNOG00000049642	Smim5	Down	Down	
ENSRNOG00000049714	Asap3	Up		
ENSRNOG00000049758	Tbc1d16	Down		
ENSRNOG00000049770	Cryba4	Down		
ENSRNOG00000049826	UST4r	Down		
ENSRNOG00000049862	Rnf157	Down	Down	
ENSRNOG00000049866	Plcxdl	Up		Up
ENSRNOG00000049918	Lrg1	Up		Up
ENSRNOG00000049937	Pdxk	Down		
ENSRNOG00000049943	Sinhcaf	Up		
ENSRNOG00000049944	Slc25a22	Up		
ENSRNOG00000049949	Hapln4	Down		
ENSRNOG00000049976	LOC102553861	Up	Up	Up
ENSRNOG00000049989	Wdcp			Down
ENSRNOG00000049994	Ifi44l	Up	Up	Up
ENSRNOG00000050024	Ms4a4e	Down		
ENSRNOG00000050067	LOC100364509	Down	Down	
ENSRNOG00000050071	Cldn5	Down	Down	

ENSRNOG00000050104	Clip3	Down	Down	
ENSRNOG00000050152	Chsy3	Up		Up
ENSRNOG00000050163	LOC498300	Down		
ENSRNOG00000050205	Afmid	Down		
ENSRNOG00000050223	LOC108348044	Up		Up
ENSRNOG00000050224	Stambpl1	Up		
ENSRNOG00000050233	Cchcr1	Up		
ENSRNOG00000050348	LOC684270	Down		
ENSRNOG00000050360	Urad	Down		Down
ENSRNOG00000050404	Pmepa1	Up		
ENSRNOG00000050413	Samd15	Down		
ENSRNOG00000050419	Avil	Up	Up	
ENSRNOG00000050453	Fbxo27	Up		Up
ENSRNOG00000050469	LOC100912034		Down	
ENSRNOG00000050482	Dbf4	Up	Up	
ENSRNOG00000050509	Ebi3	Up	Up	Up
ENSRNOG00000050539	Fbln5	Down	Down	
ENSRNOG00000050553	Atp6v1c2	Down	Down	
ENSRNOG00000050564	AABR07060585.2	Down	Down	
ENSRNOG00000050645	LOC103690067	Down		
ENSRNOG00000050647	Hspa1b	Up		Up
ENSRNOG00000050655	P4ha1	Up	Up	
ENSRNOG00000050672	Ervfrd-1	Down		
ENSRNOG00000050675	Myl4	Up		Up
ENSRNOG00000050697	Ctsz	Up		Up
ENSRNOG00000050714	Islr2	Up		
ENSRNOG00000050761	LOC100909524	Up	Up	
ENSRNOG00000050767	Nrn1	Down		
ENSRNOG00000050790	Dcaf12	Up		
ENSRNOG00000050792	Tnfaip6	Up		Up
ENSRNOG00000050805	LOC100362783	Up		
ENSRNOG00000050819	Birc5	Down		
ENSRNOG00000050848	Dtx1		Down	
ENSRNOG00000050857	Fut10	Up		
ENSRNOG00000050860	Abcb11	Down		Down

ENSRNOG00000050869	Cebpd	Up		Up
ENSRNOG00000050922	Nupr1l1 ENSRNOG00000050922	Up		Up
ENSRNOG00000050968	Ptger2	Up		Up
ENSRNOG00000050979	Ubap1l	Down	Down	
ENSRNOG00000050983	Hpcal4	Up		Up
ENSRNOG00000050997	Ifrd1	Up		Up
ENSRNOG00000050998	AABR07044397.1	Up	Up	Up
ENSRNOG00000051056	AABR07063279.1	Up		Up
ENSRNOG00000051197	AABR07039325.1	Up		
ENSRNOG00000051216	AABR07038983.1	Down	Down	
ENSRNOG00000051235	C2	Up		Up
ENSRNOG00000051262	Tmc1	Down		
ENSRNOG00000051399	Col10a1		Down	
ENSRNOG00000051419	Pttglip2	Down		
ENSRNOG00000051487	Kremen1			Up
ENSRNOG00000051507	Azin2	Up		Up
ENSRNOG00000051510	Ccdc113	Down		
ENSRNOG00000051548	Lmod1	Down		
ENSRNOG00000051612	AABR07044570.2		Down	
ENSRNOG00000051619	Asb2	Down	Down	
ENSRNOG00000051620	Tspan9		Down	
ENSRNOG00000051688	Syt15	Down	Down	
ENSRNOG00000051704	ENSRNOG00000051704		Down	
ENSRNOG00000051819	Sdr42e1	Down		
ENSRNOG00000051915	Spred3	Up		Up
ENSRNOG00000051922	AABR07059663.1	Up	Up	
ENSRNOG00000051952	Tes	Up		Up
ENSRNOG00000051977	Mmrn2		Down	
ENSRNOG00000052017	Dio3	Up	Up	
ENSRNOG00000052061	Ppef2	Down	Down	
ENSRNOG00000052062	Tut4	Up		
ENSRNOG00000052070	Aldh1a3			Up
ENSRNOG00000052080	Camk2b	Down		
ENSRNOG00000052093	Smok2a	Down		

ENSRNOG00000052113	Ppp1r9b	Up		
ENSRNOG00000052129	Nwd1	Down	Down	
ENSRNOG00000052142	Ahsa2	Up	Up	
ENSRNOG00000052173	Ranbp3l	Down	Down	
ENSRNOG00000052247	Manba	Up		
ENSRNOG00000052256	Dact3	Down	Down	
ENSRNOG00000052296	Shank3		Down	
ENSRNOG00000052386	Nlrx1	Down		
ENSRNOG00000052393	Bsc12	Down		
ENSRNOG00000052405	Cdh4	Down		Down
ENSRNOG00000052415	Gstt2	Down		
ENSRNOG00000052429	Stard3nl	Up		
ENSRNOG00000052444	Samd9	Up	Up	Up
ENSRNOG00000052498	Grb14		Down	
ENSRNOG00000052499	Rab27a		Down	Up
ENSRNOG00000052510	Wnt10a	Down	Down	
ENSRNOG00000052519	Ttc30a1		Up	Down
ENSRNOG00000052649	AABR07008309.1	Up		Up
ENSRNOG00000052725	Shisa11		Down	
ENSRNOG00000052745	Met	Up		
ENSRNOG00000052887	Dnajc6	Down		
ENSRNOG00000052894	Epg5	Down		
ENSRNOG00000052954	Ccdc173	Down	Down	
ENSRNOG00000052981	LOC108351606	Up	Up	Up
ENSRNOG00000053047	Top2a	Down		Down
ENSRNOG00000053075	B4galnt4	Up		Up
ENSRNOG00000053122	Scn1a	Down	Down	
ENSRNOG00000053240	Soga1	Up		
ENSRNOG00000053269	Tmem106c	Down		
ENSRNOG00000053285	Mllt6	Up		
ENSRNOG00000053334	Stmn4	Up		Up
ENSRNOG00000053362	Gabarapl1	Up		
ENSRNOG00000053404	NEWGENE_1306267	Down		
ENSRNOG00000053430	Slco4a1		Down	Up
ENSRNOG00000053577	Gramd1b	Down		

ENSRNOG00000053640	Kcng2	Down	Down	
ENSRNOG00000053735	Hebp2	Down	Down	
ENSRNOG00000053766	Ramp3		Down	Up
ENSRNOG00000053875	Nacad	Down	Down	
ENSRNOG00000053891	Phf11	Up	Up	Up
ENSRNOG00000053895	B3gnt9	Down	Down	
ENSRNOG00000054008	Scamp5	Down		
ENSRNOG00000054052	Ppp4r4	Down		Down
ENSRNOG00000054058	Osbp11a	Down		
ENSRNOG00000054080	Cgnl1	Down	Down	
ENSRNOG00000054086	Sp5	Up		
ENSRNOG00000054142	Slc30a2	Down	Down	
ENSRNOG00000054212	Pdel1a	Down	Down	
ENSRNOG00000054217	Runx3	Up		
ENSRNOG00000054259	Klf11	Up		
ENSRNOG00000054274	Cacnb3			Up
ENSRNOG00000054286	Rrm2	Down		
ENSRNOG00000054314	Kcng1	Down		
ENSRNOG00000054336	Majin	Up		
ENSRNOG00000054371	Prkcg	Up		
ENSRNOG00000054378	Aqp2		Down	
ENSRNOG00000054401	ENSRNOG00000054401		Down	
ENSRNOG00000054420	Vdr	Down		
ENSRNOG00000054426	Zfp704	Down		
ENSRNOG00000054437	Rel	Up		Up
ENSRNOG00000054508	Foxp2	Down		Down
ENSRNOG00000054515	Fgd6	Up		Up
ENSRNOG00000054560	Sh2d3c		Down	
ENSRNOG00000054561	Isg20	Up	Up	Up
ENSRNOG00000054603	Pacsin1	Down	Down	
ENSRNOG00000054764	Flt3	Down	Down	
ENSRNOG00000054860	Clec12a	Down		
ENSRNOG00000054957	Sfrp4	Down	Down	
ENSRNOG00000054963	Rhbdd1	Up		
ENSRNOG00000054989	Grhl1	Up		Up

ENSRNOG00000055036	RGD1311164	Down		
ENSRNOG00000055078	Cyp4b1	Up		
ENSRNOG00000055082	Maz	Up		
ENSRNOG00000055089	Slc44a1	Up		Up
ENSRNOG00000055093	Cep43	Up		
ENSRNOG00000055103	Cftr	Up	Up	
ENSRNOG00000055138	Cldn16	Down		Down
ENSRNOG00000055157	Pard6g	Down	Down	
ENSRNOG00000055293	Ptprb		Down	
ENSRNOG00000055305	Parvb	Down	Down	
ENSRNOG00000055314	Msrb1	Down		
ENSRNOG00000055471	Ywhah	Up		
ENSRNOG00000055519	AABR07002868.1	Down		Down
ENSRNOG00000055524	Trip10	Up		
ENSRNOG00000055564	RGD1564664	Up		Up
ENSRNOG00000055650	Pou2f2	Down		Down
ENSRNOG00000055672	Gpx2	Up	Up	Up
ENSRNOG00000055779	Tdrd7	Up		
ENSRNOG00000055917	Trim27	Up		Up
ENSRNOG00000055925	Zc3h7b	Up		
ENSRNOG00000055936	Trnp1	Down		
ENSRNOG00000056038	Ehbp111		Down	
ENSRNOG00000056216	Casp7	Up		
ENSRNOG00000056219	Olr1	Up		Up
ENSRNOG00000056226	Cenpq	Down	Down	
ENSRNOG00000056228	Atp10a	Up	Up	Up
ENSRNOG00000056332	Miga1	Down		
ENSRNOG00000056371	Pik3ca	Up		
ENSRNOG00000056457	Gpd1	Down		
ENSRNOG00000056524	Abcd1	Down		
ENSRNOG00000056565	AABR07059002.1	Down	Down	
ENSRNOG00000056654	Dnaaf4	Down	Down	
ENSRNOG00000056659	Mecp2	Up		
ENSRNOG00000056697	Kcnab1	Down	Down	
ENSRNOG00000056756	Actn1	Up		Up

ENSRNOG00000056772	Col4a6		Down	
ENSRNOG00000056781	Cfap221	Down		
ENSRNOG00000056783	Cd69	Up	Up	Up
ENSRNOG00000056786	Piezo1	Up		Up
ENSRNOG00000056836	Cav1		Down	
ENSRNOG00000056847	Gsta3	Down	Down	
ENSRNOG00000056894	St6galnac3	Down		
ENSRNOG00000056944	Arhgap24	Down	Down	
ENSRNOG00000056947	LOC120097562	Up	Up	Up
ENSRNOG00000056962	Nat8b	Down		
ENSRNOG00000057078	Ddit4			Up
ENSRNOG00000057092	ENSRNOG00000057092	Up		Up
ENSRNOG00000057153	Pla1a	Up		Up
ENSRNOG00000057245	Rbbp8nl	Down	Down	
ENSRNOG00000057256	Slc19a3	Down		Down
ENSRNOG00000057322	Efna3	Down	Down	
ENSRNOG00000057347	Cebpb	Up		Up
ENSRNOG00000057416	Zfp763	Down		Down
ENSRNOG00000057443	LOC497963	Up	Up	Up
ENSRNOG00000057451	Itga5	Up		Up
ENSRNOG00000057501	Fam81a	Down		
ENSRNOG00000057556	Pdzrn3	Down	Down	
ENSRNOG00000057569	Ahnak	Up		
ENSRNOG00000057598	AABR07032520.4	Down		Down
ENSRNOG00000057619	Hic1		Down	
ENSRNOG00000057645	Micb	Up		
ENSRNOG00000057691	AC112557.1	Down		
ENSRNOG00000057702	Insrr	Down	Down	
ENSRNOG00000057703	Cabp7	Down	Down	
ENSRNOG00000057713	Cav2	Down	Down	
ENSRNOG00000057729	Strip2	Down		
ENSRNOG00000057740	Ccdc148	Down		
ENSRNOG00000057813	Ift172	Down		
ENSRNOG00000057823	Ubc	Up		Up
ENSRNOG00000057832	Rnf125	Up	Up	Up

ENSRNOG00000057880	Myh11	Down		
ENSRNOG00000057988	Pfkm	Down	Down	
ENSRNOG00000058003	Spon1		Down	
ENSRNOG00000058006	Sncg	Down	Down	
ENSRNOG00000058111	Itga2	Up		Up
ENSRNOG00000058133	Ppm1n	Up		
ENSRNOG00000058156	Zdhhc18	Up		Up
ENSRNOG00000058186	Errfi1			Up
ENSRNOG00000058288	Tcf19	Down		
ENSRNOG00000058308	Asic2		Down	
ENSRNOG00000058337	Plec2	Down	Down	
ENSRNOG00000058386	Golt1b	Up		
ENSRNOG00000058388	Zfp36	Up		Up
ENSRNOG00000058522	Fam214a	Down		
ENSRNOG00000058539	Ccnb1	Down		Down
ENSRNOG00000058609	Palmd		Down	
ENSRNOG00000058643	Zfp281	Up		
ENSRNOG00000058645	Tnc	Up		Up
ENSRNOG00000058646	Zfp361l	Up		Up
ENSRNOG00000058653	Tmem52b	Down		Down
ENSRNOG00000058654	Mex3a	Up		
ENSRNOG00000058681	Tsga10	Down		
ENSRNOG00000058780	Igfbp1	Up		Up
ENSRNOG00000058805	Aida	Up	Up	Up
ENSRNOG00000058842	Sptbn2		Down	
ENSRNOG00000058906	Ptprh	Up		Up
ENSRNOG00000058916	Ccdc65	Down		
ENSRNOG00000058932	Zfp202	Up		
ENSRNOG00000058938	Camkv	Down		Down
ENSRNOG00000058983	Gata5	Down		Down
ENSRNOG00000058987	AABR07044408.3	Up	Up	Up
ENSRNOG00000059059	Skp2		Up	
ENSRNOG00000059073	Slamf1	Up	Up	Up
ENSRNOG00000059097	AABR07025140.1	Up	Up	Up
ENSRNOG00000059166	Ldb3	Down		

ENSRNOG00000059207	Oas3	Up	Up	Up
ENSRNOG00000059225	AABR07020987.1	Down		
ENSRNOG00000059260	Sptbn5		Down	Up
ENSRNOG00000059406	Ier5	Up		Up
ENSRNOG00000059460	Ttc30b	Down		
ENSRNOG00000059461	B4galt1	Up		Up
ENSRNOG00000059463	Slc39a1	Up		
ENSRNOG00000059497	AABR07071383.1	Down	Down	
ENSRNOG00000059500	Cdkn1c		Down	
ENSRNOG00000059507	Lamc3	Down		
ENSRNOG00000059510	LOC100910792	Down	Down	Down
ENSRNOG00000059538	Clec2g	Up		
ENSRNOG00000059551	LOC103689976	Down		
ENSRNOG00000059605	Ddn	Down	Down	
ENSRNOG00000059622	Pigb	Down	Down	
ENSRNOG00000059640	Ccl28	Down		
ENSRNOG00000059683	Mpp2	Down	Down	
ENSRNOG00000059702	Tex9	Down		
ENSRNOG00000059705	Elmo1			Up
ENSRNOG00000059714	LOC103692716	Up		
ENSRNOG00000059715	Cc2d2a	Down	Down	
ENSRNOG00000059720	Syp	Down		
ENSRNOG00000059750	AC141102.1	Down	Down	
ENSRNOG00000059765	Asic1	Down	Down	
ENSRNOG00000059770	AABR07044383.1	Up	Up	Up
ENSRNOG00000059840	Unc5a	Down	Down	
ENSRNOG00000059857	Rnd1	Up		Up
ENSRNOG00000059862	ENSRNOG00000059862	Down	Down	
ENSRNOG00000059876	Fsd11	Up		
ENSRNOG00000059894	Hmmr	Down	Down	
ENSRNOG00000059897	Gjb5		Down	Up
ENSRNOG00000059900	Bst2	Up	Up	Up
ENSRNOG00000059903	Thbs3		Down	
ENSRNOG00000059947	Sdc1			Up
ENSRNOG00000059968	Jak2	Up	Up	Up

ENSRNOG00000059984	Dll1	Up		Up
ENSRNOG00000060020	C1ql4	Down		
ENSRNOG00000060054	Doc2b	Down	Down	
ENSRNOG00000060061	Sowaha	Up	Up	
ENSRNOG00000060087	Adra1b	Down	Down	Down
ENSRNOG00000060105	Astn2			Up
ENSRNOG00000060123	Kifc2	Down		
ENSRNOG00000060129	Zfp655	Up		
ENSRNOG00000060137	AABR07037489.1	Down		
ENSRNOG00000060141	Epdr1		Down	Up
ENSRNOG00000060153	Spry3	Down		
ENSRNOG00000060168	Prkx	Up		
ENSRNOG00000060237	Inhbb	Up		Up
ENSRNOG00000060269	Vwce	Down		Down
ENSRNOG00000060464	Plxna3	Down	Down	
ENSRNOG00000060561	Gdpd1	Down	Down	
ENSRNOG00000060665	Afap1	Up		
ENSRNOG00000060680	LOC102547830	Down		
ENSRNOG00000060687	Slc24a3	Down		
ENSRNOG00000060694	Adam17	Up		
ENSRNOG00000060703	Troap	Down		
ENSRNOG00000060729	Qtrt2	Up		
ENSRNOG00000060753	Esyt1	Up		Up
ENSRNOG00000060773	Sertad4	Up		
ENSRNOG00000060821	Rnf114	Up		
ENSRNOG00000060988	Kcnc4	Down		Down
ENSRNOG00000061038	ENSRNOG00000061038	Down		
ENSRNOG00000061050	Mboat2	Down	Down	
ENSRNOG00000061085	Fancd2	Down		Down
ENSRNOG00000061097	Lrit3	Down		
ENSRNOG00000061102	ENSRNOG00000061102	Down		
ENSRNOG00000061128	Pelo	Up		
ENSRNOG00000061146	Gar1	Up		Up
ENSRNOG00000061147	Fam189a2	Up		Up
ENSRNOG00000061153	Hrh3	Down		Down

ENSRNOG00000061216	Tubb5	Up		
ENSRNOG00000061230	L1cam		Down	
ENSRNOG00000061231	Selenom		Down	
ENSRNOG00000061304	ENSRNOG00000061304	Down		Down
ENSRNOG00000061328	Pag1	Down	Down	
ENSRNOG00000061373	Loxl3		Down	
ENSRNOG00000061376	Psca		Down	Up
ENSRNOG00000061403	Tlr13		Down	
ENSRNOG00000061414	Acot12	Down	Down	
ENSRNOG00000061484	Adamts2	Down	Down	
ENSRNOG00000061564	LOC108353164		Up	
ENSRNOG00000061587	Metap1d	Down		
ENSRNOG00000061603	Asxl1	Up		
ENSRNOG00000061650	AC128059.5		Down	
ENSRNOG00000061695	Slc23a1	Down		
ENSRNOG00000061714	ENSRNOG00000061714		Down	
ENSRNOG00000061739	Klrk1	Up		Up
ENSRNOG00000061768	Slc43a3		Down	
ENSRNOG00000061813	Ly6c			Up
ENSRNOG00000061857	Mgst2	Down	Down	
ENSRNOG00000061862	Zbtb10	Up		
ENSRNOG00000061928	Myo1e	Up		
ENSRNOG00000062220	Cenpp	Down		
ENSRNOG00000062276	AABR07044631.2	Up		Up
ENSRNOG00000062317	ENSRNOG00000062317	Down		
ENSRNOG00000062350	ENSRNOG00000062350	Up		
ENSRNOG00000062369	ENSRNOG00000062369	Down		
ENSRNOG00000062374	ENSRNOG00000062374	Down		
ENSRNOG00000062383	Dio2	Up	Down	Up
ENSRNOG00000062387	LOC108348224	Down		
ENSRNOG00000062403	ENSRNOG00000062403	Down		
ENSRNOG00000062411	LOC686288	Down		
ENSRNOG00000062421	RragB	Down	Down	
ENSRNOG00000062429	Zfp239	Down		
ENSRNOG00000062466	ENSRNOG00000062466	Down		

ENSRNOG00000062473	Bbc3	Up		Up
ENSRNOG00000062480	ENSRNOG00000062480	Up		
ENSRNOG00000062487	ENSRNOG00000062487	Up		
ENSRNOG00000062503	ENSRNOG00000062503	Down		
ENSRNOG00000062509	ENSRNOG00000062509	Up		
ENSRNOG00000062534	LOC100364427	Up		
ENSRNOG00000062544	Adgrf1		Down	
ENSRNOG00000062552	Garem1	Up		
ENSRNOG00000062578	Rhou	Up		Up
ENSRNOG00000062605	ENSRNOG00000062605		Up	
ENSRNOG00000062640	LOC102546946	Down	Down	
ENSRNOG00000062645	LOC102551518	Up	Up	
ENSRNOG00000062648	ENSRNOG00000062648	Up		Up
ENSRNOG00000062686	Gcnt1	Up	Up	
ENSRNOG00000062694	ENSRNOG00000062694		Down	
ENSRNOG00000062707	LOC120100725	Up		Up
ENSRNOG00000062733	LOC102550011	Down		
ENSRNOG00000062746	ENSRNOG00000062746	Down		
ENSRNOG00000062764	ENSRNOG00000062764	Up		
ENSRNOG00000062786	ENSRNOG00000062786	Up		
ENSRNOG00000062795	ENSRNOG00000062795	Down		
ENSRNOG00000062806	ENSRNOG00000062806			Up
ENSRNOG00000062810	ENSRNOG00000062810	Down		
ENSRNOG00000062844	ENSRNOG00000062844	Down		
ENSRNOG00000062887	Gpr35	Up		
ENSRNOG00000062934	ENSRNOG00000062934	Up	Up	
ENSRNOG00000062944	ENSRNOG00000062944	Down		
ENSRNOG00000062985	ENSRNOG00000062985	Up		
ENSRNOG00000062986	Ccbe1		Down	
ENSRNOG00000063031	Fam131a		Down	
ENSRNOG00000063049	Pnma8c		Down	
ENSRNOG00000063081	ENSRNOG00000063081	Up		
ENSRNOG00000063126	ENSRNOG00000063126	Down		
ENSRNOG00000063135	Gna13	Up		
ENSRNOG00000063173	ENSRNOG00000063173	Down		

ENSRNOG00000063182	ENSRNOG00000063182	Up		Up
ENSRNOG00000063195	ENSRNOG00000063195	Up		
ENSRNOG00000063207	ENSRNOG00000063207	Up		Up
ENSRNOG00000063213	ENSRNOG00000063213	Down	Down	
ENSRNOG00000063216	Ccnb2	Down		
ENSRNOG00000063230	ENSRNOG00000063230	Up		
ENSRNOG00000063238	ENSRNOG00000063238	Down		
ENSRNOG00000063244	Mpeg1	Up		
ENSRNOG00000063284	LOC120095902	Down		
ENSRNOG00000063302	LOC691658	Down		
ENSRNOG00000063314	Utp23	Up		
ENSRNOG00000063332	ENSRNOG00000063332	Up		
ENSRNOG00000063339	ENSRNOG00000063339	Up		Up
ENSRNOG00000063373	Socs3	Up		Up
ENSRNOG00000063382	LOC102554222	Up		
ENSRNOG00000063398	Nat8	Down		Down
ENSRNOG00000063439	ENSRNOG00000063439	Down		Down
ENSRNOG00000063443	Pirt		Down	
ENSRNOG00000063448	Aqp6	Down		
ENSRNOG00000063475	ENSRNOG00000063475	Up		
ENSRNOG00000063478	Ccdc168	Up		
ENSRNOG00000063482	Mcpt10	Up	Up	
ENSRNOG00000063510	ENSRNOG00000063510	Down		
ENSRNOG00000063579	ENSRNOG00000063579	Down	Down	
ENSRNOG00000063590	Fzd4	Down		
ENSRNOG00000063619	ENSRNOG00000063619	Up		
ENSRNOG00000063678	Mcl1	Up		
ENSRNOG00000063679	LOC103690031	Up	Up	Up
ENSRNOG00000063696	ENSRNOG00000063696	Up		
ENSRNOG00000063718	LOC108351200	Down	Down	
ENSRNOG00000063720	ENSRNOG00000063720	Up	Up	Up
ENSRNOG00000063732	H1f0		Down	
ENSRNOG00000063737	ENSRNOG00000063737	Up		Up
ENSRNOG00000063787	ENSRNOG00000063787		Down	
ENSRNOG00000063788	ENSRNOG00000063788	Down		

ENSRNOG00000063806	ENSRNOG00000063806	Down		
ENSRNOG00000063807	ENSRNOG00000063807	Down		
ENSRNOG00000063808	Akain1	Down		
ENSRNOG00000063812	ENSRNOG00000063812	Down	Down	Down
ENSRNOG00000063847	ENSRNOG00000063847	Up	Up	
ENSRNOG00000063848	ENSRNOG00000063848			Down
ENSRNOG00000063901	ENSRNOG00000063901	Up		
ENSRNOG00000063940	ENSRNOG00000063940	Down		
ENSRNOG00000063964	Jdp2	Up		
ENSRNOG00000063974	LOC102547700	Up		Up
ENSRNOG00000063986	ENSRNOG00000063986	Down	Down	
ENSRNOG00000064004	ENSRNOG00000064004	Down		
ENSRNOG00000064007	ENSRNOG00000064007	Down		
ENSRNOG00000064015	ENSRNOG00000064015	Down		
ENSRNOG00000064070	Tmem267	Down		
ENSRNOG00000064090	Tmsb10	Up		Up
ENSRNOG00000064112	Arl5b	Up		Up
ENSRNOG00000064117	ENSRNOG00000064117	Down		
ENSRNOG00000064142	ENSRNOG00000064142	Up		Up
ENSRNOG00000064166	Hmcn2	Down	Down	
ENSRNOG00000064176	ENSRNOG00000064176	Down	Down	
ENSRNOG00000064184	Phf11b	Up		
ENSRNOG00000064189	ENSRNOG00000064189	Down		
ENSRNOG00000064205	St8sia6	Down	Down	
ENSRNOG00000064210	ENSRNOG00000064210	Down	Down	
ENSRNOG00000064211	ENSRNOG00000064211	Up		
ENSRNOG00000064216	LOC120097742	Down		
ENSRNOG00000064222	Rpl35a1	Up		
ENSRNOG00000064228	ENSRNOG00000064228	Down	Down	
ENSRNOG00000064244	LOC102552823	Down		Down
ENSRNOG00000064271	LOC102555670	Down	Down	
ENSRNOG00000064275	Grpel2	Up		
ENSRNOG00000064284	ENSRNOG00000064284	Down		
ENSRNOG00000064325	ENSRNOG00000064325	Down	Down	
ENSRNOG00000064432	Rbm43	Up	Up	Up

ENSRNOG00000064461	Olr1105	Down	Down	
ENSRNOG00000064489	ENSRNOG00000064489	Down		
ENSRNOG00000064496	LOC120095206	Down	Down	
ENSRNOG00000064497	Olr1585	Down		
ENSRNOG00000064499	LOC100912209	Down		
ENSRNOG00000064511	Ankfn1	Down	Down	
ENSRNOG00000064545	LOC120093056	Up		
ENSRNOG00000064615	ENSRNOG00000064615	Down		
ENSRNOG00000064638	Hdhd3	Down		
ENSRNOG00000064648	ENSRNOG00000064648	Down	Down	
ENSRNOG00000064680	Gpihbp1	Down		
ENSRNOG00000064726	ENSRNOG00000064726	Down		
ENSRNOG00000064728	ENSRNOG00000064728	Down	Down	
ENSRNOG00000064749	ENSRNOG00000064749	Up		
ENSRNOG00000064764	Kbtbd7	Down		
ENSRNOG00000064793	ENSRNOG00000064793	Up		
ENSRNOG00000064794	Ptpdc1	Down	Down	
ENSRNOG00000064836	ENSRNOG00000064836	Up		Up
ENSRNOG00000064838	ENSRNOG00000064838	Down		
ENSRNOG00000064849	ENSRNOG00000064849	Down	Down	
ENSRNOG00000064875	ENSRNOG00000064875	Up		
ENSRNOG00000064880	Sgsh	Down		
ENSRNOG00000064931	Tmem207	Down		Down
ENSRNOG00000064936	LOC102549824	Down	Down	
ENSRNOG00000064941	LOC102553278	Down		Down
ENSRNOG00000064970	Zfp939	Down		
ENSRNOG00000064984	Plscr2	Up		
ENSRNOG00000065000	Lrrc8c			Up
ENSRNOG00000065026	LOC120096940	Up		
ENSRNOG00000065111	ENSRNOG00000065111	Up		
ENSRNOG00000065128	Naip5	Up		
ENSRNOG00000065130	Rnf133	Up		
ENSRNOG00000065155	Clec20a	Down		
ENSRNOG00000065203	ENSRNOG00000065203	Down		
ENSRNOG00000065206	ENSRNOG00000065206	Up	Up	

ENSRNOG00000065208	LOC102556096	Up		Up
ENSRNOG00000065248	ENSRNOG00000065248	Down		Down
ENSRNOG00000065254	RT1-CE16	Up		Up
ENSRNOG00000065255	Gsg11	Down	Down	
ENSRNOG00000065278	LOC103691652	Down		
ENSRNOG00000065287	ENSRNOG00000065287	Up		
ENSRNOG00000065311	RT1-CE15	Up		Up
ENSRNOG00000065336	ENSRNOG00000065336	Down		Down
ENSRNOG00000065376	ENSRNOG00000065376	Up		
ENSRNOG00000065378	LOC120098329	Down		
ENSRNOG00000065429	ENSRNOG00000065429	Down		
ENSRNOG00000065430	Zfp958	Down		
ENSRNOG00000065465	ENSRNOG00000065465	Up	Up	
ENSRNOG00000065487	ENSRNOG00000065487	Down		
ENSRNOG00000065497	LOC102547183	Down	Down	
ENSRNOG00000065499	ENSRNOG00000065499	Down	Down	
ENSRNOG00000065506	ENSRNOG00000065506	Down		
ENSRNOG00000065519	ENSRNOG00000065519	Up		
ENSRNOG00000065553	LOC102550988	Down		Down
ENSRNOG00000065566	ENSRNOG00000065566	Down		
ENSRNOG00000065590	Gpr65	Down	Down	
ENSRNOG00000065600	ENSRNOG00000065600	Down	Down	Down
ENSRNOG00000065643	Sox4	Up		Up
ENSRNOG00000065654	ENSRNOG00000065654	Down		Down
ENSRNOG00000065655	ENSRNOG00000065655	Up	Up	
ENSRNOG00000065656	LOC120102902	Up		
ENSRNOG00000065666	LOC120102230	Up	Up	
ENSRNOG00000065682	ENSRNOG00000065682	Up		Up
ENSRNOG00000065683	ENSRNOG00000065683	Up		
ENSRNOG00000065739	LOC100360645	Up		
ENSRNOG00000065741	Il7r	Up		
ENSRNOG00000065772	LOC102547897	Up		Up
ENSRNOG00000065780	ENSRNOG00000065780	Up		Up
ENSRNOG00000065786	ENSRNOG00000065786	Up		Up
ENSRNOG00000065794	Mapk	Up		Up

ENSRNOG00000065800	ENSRNOG00000065800	Down	Down	
ENSRNOG00000065826	ENSRNOG00000065826	Down		
ENSRNOG00000065844	ENSRNOG00000065844	Down		
ENSRNOG00000065856	ENSRNOG00000065856	Up		
ENSRNOG00000065909	ENSRNOG00000065909	Down	Down	
ENSRNOG00000065916	ENSRNOG00000065916	Down		
ENSRNOG00000065935	Knq2	Up		Up
ENSRNOG00000065957	ENSRNOG00000065957		Down	
ENSRNOG00000065992	Map2k3	Up		
ENSRNOG00000066008	Pecam1		Down	Up
ENSRNOG00000066026	ENSRNOG00000066026	Up		
ENSRNOG00000066042	Abcb1b	Up	Up	
ENSRNOG00000066048	ENSRNOG00000066048	Up		
ENSRNOG00000066080	ENSRNOG00000066080	Down		
ENSRNOG00000066088	Ubb	Up		
ENSRNOG00000066091	ENSRNOG00000066091	Down	Down	
ENSRNOG00000066095	ENSRNOG00000066095	Down		
ENSRNOG00000066098	LOC100912617		Down	
ENSRNOG00000066106	Ubal2	Up		
ENSRNOG00000066174	ENSRNOG00000066174	Down		Down
ENSRNOG00000066176	ENSRNOG00000066176	Down	Down	
ENSRNOG00000066181	RT1-CE14	Up	Up	Up
ENSRNOG00000066184	ENSRNOG00000066184	Down		Down
ENSRNOG00000066201	Lgi2		Down	
ENSRNOG00000066223	Cby3	Down	Down	
ENSRNOG00000066241	ENSRNOG00000066241	Down		
ENSRNOG00000066242	Rtp4	Up	Up	Up
ENSRNOG00000066250	LOC120097508	Up	Up	
ENSRNOG00000066264	RGD1563400	Down	Down	
ENSRNOG00000066276	ENSRNOG00000066276	Down		
ENSRNOG00000066282	ENSRNOG00000066282	Down		Down
ENSRNOG00000066284	Tmem125	Down	Down	Down
ENSRNOG00000066286	ENSRNOG00000066286	Down		
ENSRNOG00000066304	Smyd3	Down		
ENSRNOG00000066310	Rgs11		Down	

ENSRNOG00000066402	ENSRNOG00000066402	Down		
ENSRNOG00000066441	ENSRNOG00000066441	Down	Down	
ENSRNOG00000066466	ENSRNOG00000066466	Up		
ENSRNOG00000066491	ENSRNOG00000066491			Up
ENSRNOG00000066500	ENSRNOG00000066500	Down		
ENSRNOG00000066523	ENSRNOG00000066523	Down		
ENSRNOG00000066556	Fgf23	Up		Up
ENSRNOG00000066557	RGD1565779	Up		Up
ENSRNOG00000066573	C4a	Up	Up	
ENSRNOG00000066591	ENSRNOG00000066591	Up		Up
ENSRNOG00000066614	LOC102554231	Down		
ENSRNOG00000066618	ENSRNOG00000066618	Down		
ENSRNOG00000066636	ENSRNOG00000066636			Up
ENSRNOG00000066647	ENSRNOG00000066647	Down	Down	Down
ENSRNOG00000066683	Mettl15	Down		
ENSRNOG00000066689	ENSRNOG00000066689			Up
ENSRNOG00000066691	ENSRNOG00000066691	Up		
ENSRNOG00000066716	LOC120100623	Down		
ENSRNOG00000066766	ENSRNOG00000066766	Up	Up	Up
ENSRNOG00000066768	ENSRNOG00000066768	Down	Down	
ENSRNOG00000066793	ENSRNOG00000066793	Down	Down	
ENSRNOG00000066846	ENSRNOG00000066846	Down		
ENSRNOG00000066847	Gnrh1	Up		
ENSRNOG00000066850	ENSRNOG00000066850	Down	Down	
ENSRNOG00000066854	LOC120098269			Up
ENSRNOG00000066875	Dcun1d3	Up		
ENSRNOG00000066877	LOC102554605	Down		
ENSRNOG00000066884	LOC102550999	Up		
ENSRNOG00000066928	ENSRNOG00000066928	Down		
ENSRNOG00000066933	ENSRNOG00000066933	Up		
ENSRNOG00000066958	ENSRNOG00000066958	Down	Down	
ENSRNOG00000066977	ENSRNOG00000066977		Down	
ENSRNOG00000066989	ENSRNOG00000066989	Up	Up	
ENSRNOG00000066996	ENSRNOG00000066996	Up		
ENSRNOG00000067022	Apela	Down	Down	

ENSRNOG00000067032	ENSRNOG00000067032	Down	Down	
ENSRNOG00000067038	ENSRNOG00000067038	Up	Up	
ENSRNOG00000067044	ENSRNOG00000067044		Down	
ENSRNOG00000067058	LOC120093108	Down		
ENSRNOG00000067060	MGC105649	Up		Up
ENSRNOG00000067077	LOC120094192	Down		
ENSRNOG00000067100	ENSRNOG00000067100	Up		
ENSRNOG00000067120	Paqr8	Up		
ENSRNOG00000067125	ENSRNOG00000067125	Down		
ENSRNOG00000067148	ENSRNOG00000067148	Down		
ENSRNOG00000067151	ENSRNOG00000067151	Down		
ENSRNOG00000067164	Olr1104	Down	Down	
ENSRNOG00000067168	Prelid2	Down		
ENSRNOG00000067183	LOC103691053	Down		
ENSRNOG00000067191	ENSRNOG00000067191	Down	Down	Down
ENSRNOG00000067200	ENSRNOG00000067200	Down	Down	
ENSRNOG00000067203	B4galnt2	Down		
ENSRNOG00000067207	ENSRNOG00000067207	Down		Down
ENSRNOG00000067213	ENSRNOG00000067213	Up		
ENSRNOG00000067254	ENSRNOG00000067254	Up		
ENSRNOG00000067260	ENSRNOG00000067260	Down		
ENSRNOG00000067262	Aldh18a1	Up	Up	
ENSRNOG00000067274	Ier2	Up		Up
ENSRNOG00000067284	Spin1	Up		
ENSRNOG00000067315	ENSRNOG00000067315	Down		
ENSRNOG00000067326	ENSRNOG00000067326	Up		
ENSRNOG00000067338	Maml3	Down	Down	
ENSRNOG00000067365	ENSRNOG00000067365	Down		
ENSRNOG00000067369	Chml	Up		
ENSRNOG00000067389	LOC102554815	Down	Down	
ENSRNOG00000067402	Akr1c12l1	Down		
ENSRNOG00000067410	ENSRNOG00000067410	Down		Down
ENSRNOG00000067412	ENSRNOG00000067412	Down	Down	Down
ENSRNOG00000067428	ENSRNOG00000067428	Down		
ENSRNOG00000067434	Hist1h2an	Up	Up	

ENSRNOG00000067449	ENSRNOG00000067449	Down		
ENSRNOG00000067470	ENSRNOG00000067470	Up		
ENSRNOG00000067479	Hlf	Down		Down
ENSRNOG00000067507	ENSRNOG00000067507	Down	Down	
ENSRNOG00000067543	ENSRNOG00000067543	Up		Up
ENSRNOG00000067554	Fam234a		Down	
ENSRNOG00000067579	ENSRNOG00000067579	Down		Down
ENSRNOG00000067598	ENSRNOG00000067598	Down	Down	
ENSRNOG00000067606	ENSRNOG00000067606	Up		
ENSRNOG00000067638	ENSRNOG00000067638	Down		
ENSRNOG00000067687	LOC100909782	Down		
ENSRNOG00000067696	ENSRNOG00000067696	Up		
ENSRNOG00000067705	Klf2	Down	Down	
ENSRNOG00000067725	Junb	Up		Up
ENSRNOG00000067729	ENSRNOG00000067729	Up	Up	
ENSRNOG00000067738	ENSRNOG00000067738	Up		Up
ENSRNOG00000067772	ENSRNOG00000067772	Down		Down
ENSRNOG00000067780	LOC103691054	Down		
ENSRNOG00000067799	Selenow		Down	
ENSRNOG00000067803	Acaa1b	Down		
ENSRNOG00000067832	LOC102554288	Down		
ENSRNOG00000067844	ENSRNOG00000067844	Down		
ENSRNOG00000067881	ENSRNOG00000067881	Down	Down	
ENSRNOG00000067892	LOC100912041	Up		Up
ENSRNOG00000067894	ENSRNOG00000067894		Down	
ENSRNOG00000067907	ENSRNOG00000067907	Up		
ENSRNOG00000067921	ENSRNOG00000067921	Down	Down	
ENSRNOG00000067929	ENSRNOG00000067929	Down		
ENSRNOG00000067958	Nat14	Down	Down	
ENSRNOG00000067962	Nat8f3	Down		
ENSRNOG00000067963	ENSRNOG00000067963	Up		
ENSRNOG00000067966	Ly96	Up		
ENSRNOG00000067968	Tnfsf10	Up	Up	Up
ENSRNOG00000067988	Slc5a3	Up		
ENSRNOG00000068017	Fam78b	Down	Down	

ENSRNOG00000068023	ENSRNOG00000068023		Down	
ENSRNOG00000068024	B3gnt8	Down		
ENSRNOG00000068025	ENSRNOG00000068025	Up		
ENSRNOG00000068029	Six2	Up		
ENSRNOG00000068035	LOC100912214	Down		
ENSRNOG00000068045	Dmrta2			Up
ENSRNOG00000068082	ENSRNOG00000068082	Up	Up	Up
ENSRNOG00000068084	ENSRNOG00000068084		Down	
ENSRNOG00000068138	Aldh3b2	Down	Down	
ENSRNOG00000068146	Iqcn	Up		
ENSRNOG00000068148	LOC102547920	Down	Down	
ENSRNOG00000068158	ENSRNOG00000068158	Down		
ENSRNOG00000068167	ENSRNOG00000068167	Up		
ENSRNOG00000068182	ENSRNOG00000068182			Down
ENSRNOG00000068207	ENSRNOG00000068207		Down	
ENSRNOG00000068224	ENSRNOG00000068224	Down		
ENSRNOG00000068238	ENSRNOG00000068238	Up		
ENSRNOG00000068243	Cdk5r1			Up
ENSRNOG00000068351	ENSRNOG00000068351	Down		
ENSRNOG00000068362	ENSRNOG00000068362	Up		
ENSRNOG00000068374	Insyn1	Down		
ENSRNOG00000068391	ENSRNOG00000068391	Up		Up
ENSRNOG00000068396	ENSRNOG00000068396	Up		
ENSRNOG00000068407	RGD1566085	Down		Down
ENSRNOG00000068412	Fosl2	Up		Up
ENSRNOG00000068418	Gbp6	Up	Up	Up
ENSRNOG00000068425	Zfp551	Down		
ENSRNOG00000068431	Eppk1	Up	Up	
ENSRNOG00000068440	ENSRNOG00000068440	Down		Down
ENSRNOG00000068444	Kcnj10	Down	Down	Down
ENSRNOG00000068458	ENSRNOG00000068458		Down	
ENSRNOG00000068478	ENSRNOG00000068478	Up		
ENSRNOG00000068502	LOC100911990	Down	Down	
ENSRNOG00000068528	ENSRNOG00000068528	Up		
ENSRNOG00000068537	Hs3st1		Down	Up

ENSRNOG00000068555	Nt5c1a	Up	Up	
ENSRNOG00000068566	Msx1	Up		
ENSRNOG00000068603	ENSRNOG00000068603	Down		
ENSRNOG00000068605	ENSRNOG00000068605	Down	Down	
ENSRNOG00000068617	LOC108352526	Down		
ENSRNOG00000068632	LOC103690393	Down		Down
ENSRNOG00000068646	Dmr1c1	Down		
ENSRNOG00000068660	ENSRNOG00000068660	Down	Down	Down
ENSRNOG00000068669	Ankrd66	Down		
ENSRNOG00000068677	LOC100909998	Down		Down
ENSRNOG00000068691	LOC102551980	Down		
ENSRNOG00000068695	Diras3	Down	Down	
ENSRNOG00000068715	ENSRNOG00000068715	Up		
ENSRNOG00000068740	ENSRNOG00000068740	Down		
ENSRNOG00000068741	ENSRNOG00000068741	Up		
ENSRNOG00000068856	ENSRNOG00000068856	Down	Down	
ENSRNOG00000068869	Spink1	Down		
ENSRNOG00000068881	ENSRNOG00000068881	Up		Up
ENSRNOG00000068894	Tssk1b	Down		
ENSRNOG00000068914	Nrep		Down	
ENSRNOG00000068929	ENSRNOG00000068929	Down		
ENSRNOG00000068953	ENSRNOG00000068953	Up	Up	
ENSRNOG00000068967	RGD1560718	Down		
ENSRNOG00000068968	ENSRNOG00000068968	Down		
ENSRNOG00000068984	Gbp1	Up		Up
ENSRNOG00000068985	ENSRNOG00000068985	Down		
ENSRNOG00000068993	LOC102552404	Down		
ENSRNOG00000069004	Ces1c	Up		
ENSRNOG00000069024	ENSRNOG00000069024	Up		Up
ENSRNOG00000069051	ENSRNOG00000069051	Up		
ENSRNOG00000069152	ENSRNOG00000069152	Up		Up
ENSRNOG00000069176	Adh6	Down		Down
ENSRNOG00000069177	ENSRNOG00000069177	Down		
ENSRNOG00000069187	Inip	Up		
ENSRNOG00000069206	Kbtbd3	Down		

ENSRNOG00000069209	ENSRNOG00000069209	Up		
ENSRNOG00000069213	ENSRNOG00000069213	Down		Down
ENSRNOG00000069246	Abcg3l3	Down		
ENSRNOG00000069263	ENSRNOG00000069263	Down	Down	
ENSRNOG00000069267	Pthlh			Up
ENSRNOG00000069274	LOC100910848	Up		
ENSRNOG00000069321	Ttc30a	Down		
ENSRNOG00000069366	ENSRNOG00000069366		Down	
ENSRNOG00000069375	LOC681355	Down		
ENSRNOG00000069384	LOC100910768	Up		
ENSRNOG00000069413	S100a14		Down	
ENSRNOG00000069423	ENSRNOG00000069423	Down		
ENSRNOG00000069469	ENSRNOG00000069469	Up		
ENSRNOG00000069480	ENSRNOG00000069480	Up	Up	Up
ENSRNOG00000069485	ENSRNOG00000069485	Down	Down	
ENSRNOG00000069492	LOC688320	Down		
ENSRNOG00000069521	Fzd8	Up	Up	
ENSRNOG00000069527	Isg15	Up	Up	Up
ENSRNOG00000069550	ENSRNOG00000069550		Down	Up
ENSRNOG00000069555	LOC100359539	Down		
ENSRNOG00000069579	C1qtnf4		Down	
ENSRNOG00000069588	ENSRNOG00000069588		Down	
ENSRNOG00000069594	LOC120102485	Up		Up
ENSRNOG00000069600	Rac3		Down	
ENSRNOG00000069611	ENSRNOG00000069611	Down	Down	
ENSRNOG00000069633	Itpril2	Up		
ENSRNOG00000069663	Arl4c			Up
ENSRNOG00000069674	ENSRNOG00000069674	Down		
ENSRNOG00000069681	ENSRNOG00000069681	Up	Up	
ENSRNOG00000069710	Nat8f2	Down		Down
ENSRNOG00000069729	ENSRNOG00000069729	Down		Down
ENSRNOG00000069746	LOC108348241	Up	Up	Up
ENSRNOG00000069749	Rnf170	Down		
ENSRNOG00000069756	Ccdc92b	Down	Down	
ENSRNOG00000069775	ENSRNOG00000069775	Down		

ENSRNOG00000069802	ENSRNOG00000069802	Down		
ENSRNOG00000069818	LOC102552770			Down
ENSRNOG00000069835	Oas1i	Up		Up
ENSRNOG00000069845	ENSRNOG00000069845	Down		Down
ENSRNOG00000069854	Pbld2	Down	Down	
ENSRNOG00000069878	ENSRNOG00000069878	Up		
ENSRNOG00000069880	ENSRNOG00000069880	Down	Down	
ENSRNOG00000069900	Ypel4	Up		Up
ENSRNOG00000069907	LOC108348229	Down		
ENSRNOG00000069912	ENSRNOG00000069912	Down		
ENSRNOG00000069919	ENSRNOG00000069919	Up		
ENSRNOG00000069947	ENSRNOG00000069947	Up		
ENSRNOG00000069968	ENSRNOG00000069968	Down		
ENSRNOG00000069984	Srsf12	Up		Up
ENSRNOG00000070011	LOC120098113	Down	Down	
ENSRNOG00000070027	ENSRNOG00000070027	Down		
ENSRNOG00000070030	ENSRNOG00000070030	Down		
ENSRNOG00000070043	Ces2g	Down		
ENSRNOG00000070062	LOC108348488			Up
ENSRNOG00000070101	ENSRNOG00000070101	Up		
ENSRNOG00000070102	ENSRNOG00000070102	Up		
ENSRNOG00000070105	ENSRNOG00000070105	Down		
ENSRNOG00000070106	LOC102552000	Down		
ENSRNOG00000070111	Apol2	Up		Up
ENSRNOG00000070112	ENSRNOG00000070112	Up		
ENSRNOG00000070119	Pbx1	Down	Down	
ENSRNOG00000070121	Nsun3	Down		
ENSRNOG00000070219	ENSRNOG00000070219		Down	
ENSRNOG00000070221	ENSRNOG00000070221	Down		
ENSRNOG00000070246	ENSRNOG00000070246	Up		
ENSRNOG00000070281	RGD1559747	Down		Down
ENSRNOG00000070388	ENSRNOG00000070388	Down		
ENSRNOG00000070399	LOC687532	Up		
ENSRNOG00000070404	ENSRNOG00000070404	Down	Down	
ENSRNOG00000070425	ENSRNOG00000070425	Down		

ENSRNOG00000070472	Nxpe4	Down	Down	
ENSRNOG00000070476	ENSRNOG00000070476	Down		
ENSRNOG00000070506	Chst8		Down	
ENSRNOG00000070518	Gdf1	Down	Down	
ENSRNOG00000070519	ENSRNOG00000070519	Down		
ENSRNOG00000070531	Ltb			Up
ENSRNOG00000070553	Gltpd2	Down		
ENSRNOG00000070559	LOC681544	Down		
ENSRNOG00000070591	LOC100912338		Up	
ENSRNOG00000070605	Ly6g6c	Up		
ENSRNOG00000070615	ENSRNOG00000070615	Down		
ENSRNOG00000070622	Hsd3b1	Up		Up
ENSRNOG00000070673	ENSRNOG00000070673	Up		Up
ENSRNOG00000070676	LOC120095536			Up
ENSRNOG00000070689	Tnfrsf22	Up		Up
ENSRNOG00000070702	Smkr1	Down	Down	
ENSRNOG00000070737	ENSRNOG00000070737	Up		Up
ENSRNOG00000070745	Tnf			Up
ENSRNOG00000070750	ENSRNOG00000070750	Down	Down	Down
ENSRNOG00000070795	ENSRNOG00000070795	Down		Down
ENSRNOG00000070875	Nat8f4	Down	Down	Down
ENSRNOG00000070902	ENSRNOG00000070902	Down	Down	Down
ENSRNOG00000070904	ENSRNOG00000070904	Up		
ENSRNOG00000070930	Hilpda	Up		Up
ENSRNOG00000070936	ENSRNOG00000070936	Down		Down
ENSRNOG00000070952	ENSRNOG00000070952	Down	Down	
ENSRNOG00000070964	Cc2d2b	Up		
ENSRNOG00000070985	LOC100909928	Up		
ENSRNOG00000071001	Trim56	Up	Up	Up
ENSRNOG00000071002	Kcne4			Up
ENSRNOG00000071009	LOC679924	Down	Down	
ENSRNOG00000071012	ENSRNOG00000071012	Down		
ENSRNOG00000071015	Tlcl1	Down		
ENSRNOG00000071032	Mmp25	Up		
ENSRNOG00000071035	ENSRNOG00000071035			Up

ENSRNOG00000071046	ENSRNOG00000071046	Down	Down	Down
ENSRNOG00000071053	ENSRNOG00000071053	Down	Down	
ENSRNOG00000071065	LOC691418	Down		
ENSRNOG00000071066	Stum	Down		
ENSRNOG00000071096	ENSRNOG00000071096	Down		
ENSRNOG00000071108	Hoxd8	Down		
ENSRNOG00000071122	ENSRNOG00000071122	Down	Down	
ENSRNOG00000071128	B3gnt4	Up		
ENSRNOG00000071131	LOC120102992	Up		
ENSRNOG00000071200	RGD1559714	Down	Down	
ENSRNOG00000071202	ENSRNOG00000071202			Up
ENSRNOG00000071215	ENSRNOG00000071215	Down		
ENSRNOG00000071219	ENSRNOG00000071219	Down	Down	

Supplemental Digital Content 3. Commonly upregulated genes, GO terms and KEGG pathway in AKI induced CPB, IRI, and sepsis

Common upregulated genes
A3galt2
Acod1
Acot2
Acsl4
Adamtsl4
Akr1b8
Aldh18a1
Ampd3
Angptl4
Arid5a
Atf3
Atf4
Atf5
Birc3
Bmal2
Btg1
Btg2
Car13
Cars1
Catsper4
Ccdc120
Ccl2
Ccnl1

Cebpb
Cebpd
Chka
Clefl
Cldn4
Cldn7
Clu
Cp
Cpeb1
Csf3r
Cxcl1
Cxcl10
Cxcl2
Ddit3
Dnah17
Dusp8
Edn1
Egr2
Eif1a
Eif4ebp1
Eif6
Enc1
Epha2
F10
F2rl1
Fga

Fgb
Fgg
Fndc4
Gch1
Gpr35
Havcr1
Hbegf
Heatr1
Hk2
Hmga1
Hmox1
Hp
Hpcal4
Icam1
Ier2
Ier5
Ier5l
Ifitm10
Ifrd1
Il1rn
Il27
Il34
Il6
Irak3
Irs2
Krt18

Krt20
Lcn2
Lpo
Lrg1
Lsr
Lypd1
Mamstr
Map3k1
Map3k6
Map3k8
Marcks11
Mmp7
Msr1
Mt1
Mvp
Nectin2
Ngp
Nop56
Nop58
Nrg1
Osmr
Pdpn
Pglyrp1
Pgs1
Piezo1
Plaur

Plin2
Plp2
Pmepa1
Ppan
Ppl
Ppp1r15a
Ptpn2
Pthr1
Rab44
Rcan1
Rgs16
Rhbdf2
Rhou
Rin1
Ripk3
Rnd1
S100a11
Sfn
Sh2d5
Sh3bp4
Slc38a2
Snx10
Socs3
Sowahb
Sphk1
Spp1

Spsb1
Sptlc2
Stat3
Styk1
Tlr2
Tmem43
Tnip2
Trem1
Trib1
Trib3
Trmt61a
Trpv5
Trpv6
Tsc22d1
Tuba1c
Tubb6
Upp1
Vtcn1
Zbtb42
Zc3h12a
Zfp36
Zfp3611
Zfp593
or cysteine

Common GO terms
Negative regulation of lipopolysaccharide-mediated signaling pathway

Common upregulated KEGG pathways
Amoebiasis
Apoptosis
C-type lectin receptor signaling pathway
Chagas disease
Complement and coagulation cascades
Coronavirus disease-COVID-19
Cytokine-cytokine receptor interaction
IL-17 signaling pathway
Kaposi sarcoma-associated herpesvirus infection
Legionellosis
Leishmaniasis
Lipid and atherosclerosis
Malaria
NF-kappa B signaling pathway
NOD-like receptor signaling pathway
Pertussis
Rheumatoid arthritis
Staphylococcus aureus infection
TNF signaling pathway
Toll-like receptor signaling pathway
Tuberculosis
Viral protein interaction with cytokine and cytokine receptor

Supplemental Digital Content 4. ARRIVE checklist

1. Study Design

A randomized, controlled animal study was conducted to investigate the protective effect of sodium nitrite on renal ischemia-reperfusion injury in rats. Animals were randomly allocated to sham, IRI, or nitrite-treated groups (n = 12-17/group).

2. Sample Size

Based on the results of our preliminary experiments, a sample size of 15 animals per group was required to detect a 50% reduction in KIM-1 mRNA expression using the G*Power 3.1 statistical power analysis software (Heinrich-Heine-University, Düsseldorf, Germany). This was considered adequate ($\alpha=0.05$, $1-\beta=0.9$) and clinically valid.

3. Inclusion and Exclusion Criteria

A criteria was established to exclude rats with anemia ($Hb < 7.0$ mg/dL), but no samples met this criteria.

4. Randomisation

Interventions were randomly assigned to groups by researchers who were not involved in data collection.

5. Blinding

Investigators conducting the histological and biochemical analyses were blinded to the group allocation throughout the study.

6. Outcome measures

The primary outcome was expression levels of KIM-1 and NGAL measured by qPCR. Secondary outcomes included renal injury assessed by serum creatinine and histological score.

7. Statistical methods

All the data were subjected to Robust Regression and Outlier Removal test to exclude outliers ($Q=1\%$). Normal distribution was tested using the Shapiro-Wilk test. One-way analysis of variance (ANOVA) (Šidák multiple comparisons test) was used for normally distributed data, and the Kruskal-Wallis test (Dunn's multiple comparisons test) was used

for non-normally distributed data. Hemodynamic parameters and hemoglobin concentrations at different timepoints were analyzed using repeated measures 2-way ANOVA. GraphPad prism 10.0 (Graphpad Software, La Jolla, CA, USA) was used for the statistical analysis. P-values less than 0.05 were considered statistically significant.

8. Experimental animals

All animal experiments and protocols were approved by the Institutional Animal Care and Use Committee of Sapporo Medical University (No. 20-101, 23-015). Experiments were performed using 16- to 18-week-old male Wistar rats (350–400 g). Rats were housed at our institutional animal facility in a temperature-controlled room (22–24°C) under a 12-h light/dark cycle with unlimited access to food and water.

9. Experimental procedures

General anesthesia was induced by sevoflurane inhalation (Viatris, Canonburg, PA, USA), and tracheal intubation was performed using a 16G catheter (B. Braun Medical Inc., Melsungen, Germany). Anesthesia was maintained by the inhalation of 2% sevoflurane. All rats were mechanically ventilated using a small animal ventilator (Model 683 Harvard Apparatus, Holliston, MA, USA) at a frequency of 60–70/min, with a tidal volume of 8–10 mL/kg under a 40% oxygen fraction. A rectal temperature probe was inserted, and the following procedures were performed while maintaining the body temperature above 36°C on a heating pad.

A rat CPB model was established according to the previous literature.¹⁹ A 16G dialysis catheter with side holes (MEDIKIT Co., Ltd., Tokyo, Japan) for CPB outflow was inserted from the right external jugular vein into the right atrium, and 22G catheters (MEDIKIT Co., Ltd., Tokyo, Japan) were inserted into the left and right femoral arteries for CPB arterial inflow and arterial blood pressure monitoring, respectively. Heparin (500 IU/kg) was administered before starting CPB. Nitrite or an equivalent volume of saline was administered simultaneously with heparin. CPB was performed for 60 min, and the rat was observed for 240 min after separation from CPB.

In the sham group, a 22G catheter was placed in the right femoral artery to measure the arterial pressure, and the right external jugular vein and left femoral artery were exposed in the same manner. The same volume of heparin and saline was administered as in the CPB group, and the rats were observed for 300 min.

10. Results

Nitrite successfully suppressed the mRNA levels of KIM-1 and NGAL, which are

considered critical early markers of AKI ($p=0.034$ and $p=0.008$, respectively; Figure 2A). These findings indicated that nitrite could be a potential preventive intervention against CS-AKI.

Supplemental Digital Content 5. List of rat gene primers used in this study

Gene	Sequences (5'-3')	
	Forward	Reverse
KIM-1	CACGGCTAACCAGAGTGACTT	AATTGTGACAGGGTGACCCAC
NGAL	GCGATTCGTCAGCTTTGCCA	ACCATCAGGCCACTGCACAT
TNF- α	GCCACCACGCTCTTCTGTCTA	AGGGAGCCCATTGTTGGAACTT
TNFR1	TGGCCTGCTGCTGTCACT	AGGTTTCCTTTGTGGCACTTGG
TNFR2	CTGTGCGGCAGGCATGTTTA	GTTGCAAGCACACACTCGGT
p50	ACAGCAGATGGCCCATACCT	TCTTCTCACTGGAGGCACCG
p65	TGAACTCTGCCCAGACCGAT	ATTGTTGGTCTGGATGCGCTG
GAPDH	CTTCTTGTGCAGTGCCAGCC	TCCGATACGGCCAAATCCGTT