

Table S1. Ingredients and chemical-bromatological composition of the feedlot diet;

Ingredients	(g/kg of DM)
Sugarcane bagasse	90
Tifton-85 hay	30
Ground corn	660.35
Soybean meal	175.3
Urea	3.80
Mineral-vitaminic supplement	37.4
Chemical composition	(g/kg of DM)
Crude Protein	153.4
Neutral Detergent Fiber	256.8
Ether Extract	35.3
DM: Dry Matter	

Table S2. Complete list of differentially expressed genes (DEGs) between groups (G1 x G2) at weaning

Gene ID ensembl	Gene symbol	Gene type	log2 FC	P value	FDR	Expression
ENSBTAG00000017280	<i>C3</i>	protein-coding	-2,88718161	3,28E-23	2,35E-19	down
ENSBTAG00000046307	<i>CEBPD</i>	protein-coding	-2,566877263	4,85E-20	2,31E-16	down
ENSBTAG00000021672	<i>RGS1</i>	protein-coding	-2,518130222	7,55E-20	2,70E-16	down
ENSBTAG00000048501	<i>ST8SIA2</i>	protein-coding	2,375477906	2,91E-18	8,32E-15	up
ENSBTAG00000014069	<i>PDK4</i>	protein-coding	-3,342182588	6,36E-18	1,52E-14	down
ENSBTAG00000011121	<i>CLCN4</i>	protein-coding	1,024354349	7,41E-18	1,52E-14	up
ENSBTAG00000004248	<i>MLYCD</i>	protein-coding	-1,897125771	1,47E-17	2,63E-14	down
ENSBTAG00000013242	<i>MYMK</i>	protein-coding	1,475865923	1,68E-17	2,67E-14	up
ENSBTAG00000002834	<i>CCDC69</i>	protein-coding	1,133803659	4,84E-17	6,93E-14	up
ENSBTAG00000022989	<i>FAM174B</i>	protein-coding	1,125965312	6,62E-17	8,62E-14	up
ENSBTAG00000013631	<i>GLUL</i>	protein-coding	-1,545774043	9,04E-17	1,08E-13	down
ENSBTAG00000017956	<i>KCTD15</i>	protein-coding	1,025873817	1,15E-16	1,27E-13	up
ENSBTAG00000013860	<i>GADD45A</i>	protein-coding	-1,966398097	1,71E-16	1,75E-13	down
ENSBTAG00000002783	<i>PCYOX1</i>	protein-coding	0,837936678	6,45E-16	6,15E-13	up
ENSBTAG00000007890	<i>SEC14L5</i>	protein-coding	2,07964646	7,66E-16	6,85E-13	up
ENSBTAG00000021999	<i>CPT1A</i>	protein-coding	-1,700805903	9,44E-16	7,95E-13	down
ENSBTAG00000004118	<i>ALAS1</i>	protein-coding	0,740760051	1,42E-15	1,13E-12	up
ENSBTAG00000046548	<i>ST6GALNAC4</i>	protein-coding	0,863185363	1,12E-14	8,42E-12	up
ENSBTAG00000007578	<i>SHTN1</i>	protein-coding	-1,699762289	2,86E-14	2,05E-11	down
ENSBTAG00000050158	<i>NA</i>	NA	0,867731249	3,00E-14	2,05E-11	up
ENSBTAG00000011909	<i>ACVR1</i>	protein-coding	0,62535742	5,59E-14	3,64E-11	up
ENSBTAG00000012314	<i>LDLR</i>	protein-coding	2,713619863	6,59E-14	4,10E-11	up
ENSBTAG00000015942	<i>DNAJA4</i>	protein-coding	1,330841201	6,88E-14	4,11E-11	up
ENSBTAG00000014265	<i>SREBF2</i>	protein-coding	0,909734781	7,25E-14	4,15E-11	up
ENSBTAG00000050852	<i>CXCL9</i>	protein-coding	-2,348000597	7,68E-14	4,23E-11	down
ENSBTAG00000000163	<i>DDIT4</i>	protein-coding	-1,168143523	9,72E-14	5,15E-11	down
ENSBTAG00000011437	<i>SIK1</i>	protein-coding	-1,54764372	1,31E-13	6,69E-11	down
ENSBTAG00000016819	<i>FABP3</i>	protein-coding	1,411449047	1,49E-13	7,36E-11	up
ENSBTAG00000048728	<i>NA</i>	NA	1,369514399	1,58E-13	7,55E-11	up
ENSBTAG00000054628	<i>PMEPA1</i>	protein-coding	0,901141108	2,57E-13	1,19E-10	up
ENSBTAG00000015505	<i>FADS2</i>	protein-coding	1,337692091	3,33E-13	1,49E-10	up
ENSBTAG00000051540	<i>NA</i>	NA	0,810432371	3,91E-13	1,69E-10	up
ENSBTAG00000039190	<i>SLC9A5</i>	protein-coding	1,01730456	4,94E-13	2,08E-10	up
ENSBTAG00000053951	<i>SPX</i>	protein-coding	1,543214361	7,89E-13	3,23E-10	up
ENSBTAG00000009139	<i>LDLRAD4</i>	protein-coding	1,08020193	1,02E-12	4,05E-10	up
ENSBTAG00000046468	<i>ACTBL2</i>	protein-coding	1,670333266	1,12E-12	4,32E-10	up
ENSBTAG00000051860	<i>NA</i>	NA	1,124292448	1,39E-12	5,24E-10	up
ENSBTAG00000039335	<i>ARRDC2</i>	protein-coding	-1,617886611	1,96E-12	7,18E-10	down
ENSBTAG00000018294	<i>DNASE1L3</i>	protein-coding	-2,560923671	2,02E-12	7,23E-10	down
ENSBTAG00000020773	<i>CTSW</i>	protein-coding	-1,478110289	2,51E-12	8,76E-10	down
ENSBTAG00000016060	<i>CREM</i>	protein-coding	-1,41747262	2,62E-12	8,93E-10	down
ENSBTAG00000017718	<i>CCL22</i>	protein-coding	-3,069907623	2,89E-12	9,57E-10	down
ENSBTAG00000005259	<i>UCP3</i>	protein-coding	-1,693284565	2,94E-12	9,57E-10	down
ENSBTAG00000002473	<i>ANGPTL4</i>	protein-coding	-2,677105019	3,36E-12	1,07E-09	down
ENSBTAG00000011196	<i>C1QB</i>	protein-coding	-1,613205323	4,25E-12	1,32E-09	down
ENSBTAG00000008394	<i>MYL3</i>	protein-coding	1,559541659	4,49E-12	1,37E-09	up
ENSBTAG00000007159	<i>ESR1</i>	protein-coding	0,825858185	6,24E-12	1,86E-09	up
ENSBTAG00000030845	<i>MPEG1</i>	protein-coding	-1,395940037	7,17E-12	2,09E-09	down
ENSBTAG00000000329	<i>MEGF10</i>	protein-coding	0,798113835	7,44E-12	2,09E-09	up
ENSBTAG00000003786	<i>GCGR</i>	protein-coding	-2,788629459	7,44E-12	2,09E-09	down
ENSBTAG00000001176	<i>LRRN1</i>	protein-coding	1,17796197	8,01E-12	2,20E-09	up
ENSBTAG00000019669	<i>CD163</i>	protein-coding	-1,799704744	8,21E-12	2,22E-09	down
ENSBTAG00000025258	<i>LOC515676</i>	protein-coding	-1,993771978	9,25E-12	2,43E-09	down
ENSBTAG00000032719	<i>TFRC</i>	protein-coding	1,136473435	9,35E-12	2,43E-09	up
ENSBTAG00000003692	<i>UCP2</i>	protein-coding	-1,135749755	1,04E-11	2,65E-09	down
ENSBTAG00000000092	<i>HIF1AN</i>	protein-coding	0,613708437	1,19E-11	2,98E-09	up
ENSBTAG00000044106	<i>SPIDR</i>	protein-coding	-1,272848512	1,29E-11	3,19E-09	down
ENSBTAG00000046332	<i>ACTA1</i>	protein-coding	1,138015452	1,53E-11	3,71E-09	up
ENSBTAG000000017824	<i>IRF8</i>	protein-coding	-1,278644016	1,90E-11	4,53E-09	down
ENSBTAG00000022294	<i>FADS1</i>	protein-coding	1,52930826	2,29E-11	5,38E-09	up
ENSBTAG00000020632	<i>NQO1</i>	protein-coding	0,783901876	2,59E-11	5,97E-09	up
ENSBTAG00000008913	<i>TMEM98</i>	protein-coding	0,968379079	2,76E-11	6,28E-09	up

ENSBTAG00000010155	<i>LOC504773</i>	protein-coding	-1,411695562	3,03E-11	6,79E-09	down
ENSBTAG00000012777	<i>SRF</i>	protein-coding	0,584704637	3,19E-11	7,02E-09	up
ENSBTAG00000016683	<i>NFKBIA</i>	protein-coding	-0,991603264	4,17E-11	8,94E-09	down
ENSBTAG00000009517	<i>DBI</i>	protein-coding	0,767322876	4,18E-11	8,94E-09	up
ENSBTAG000000021143	<i>DNMT3A</i>	protein-coding	0,591863734	4,42E-11	9,30E-09	up
ENSBTAG000000019110	<i>PNRC1</i>	protein-coding	-0,934340785	5,24E-11	1,08E-08	down
ENSBTAG000000021978	<i>PARVB</i>	protein-coding	0,660723864	5,30E-11	1,08E-08	up
ENSBTAG000000032089	<i>CDC42EP2</i>	protein-coding	1,12374019	5,50E-11	1,11E-08	up
ENSBTAG000000053595	<i>HOXA9</i>	protein-coding	-0,689014174	6,40E-11	1,27E-08	down
ENSBTAG00000002885	<i>MSR1</i>	protein-coding	-1,737760726	1,00E-10	1,96E-08	down
ENSBTAG00000003033	<i>GADD45G</i>	protein-coding	-1,549481504	1,15E-10	2,22E-08	down
ENSBTAG00000007153	<i>C1QA</i>	protein-coding	-1,493387518	1,21E-10	2,30E-08	down
ENSBTAG00000018513	<i>FHL1</i>	protein-coding	0,749352137	1,22E-10	2,30E-08	up
ENSBTAG00000004824	<i>REEP1</i>	protein-coding	0,923141593	1,27E-10	2,37E-08	up
ENSBTAG000000049058	<i>INHBB</i>	protein-coding	1,098704848	1,36E-10	2,50E-08	up
ENSBTAG00000018936	<i>LSS</i>	protein-coding	0,960768516	1,42E-10	2,57E-08	up
ENSBTAG00000004688	<i>DHCR24</i>	protein-coding	1,320771166	1,48E-10	2,66E-08	up
ENSBTAG00000007268	<i>F13A1</i>	protein-coding	-1,290444644	1,66E-10	2,93E-08	down
ENSBTAG00000012919	<i>MMP15</i>	protein-coding	0,812760959	1,85E-10	3,22E-08	up
ENSBTAG00000014005	<i>PPIP5K1</i>	protein-coding	0,575692526	3,13E-10	5,39E-08	up
ENSBTAG00000017528	<i>SNAI3</i>	protein-coding	1,475491458	3,48E-10	5,93E-08	up
ENSBTAG00000018316	<i>ZMYND15</i>	protein-coding	-1,672963626	3,70E-10	6,23E-08	down
ENSBTAG000000054394	<i>NA</i>	NA	0,819614344	3,76E-10	6,25E-08	up
ENSBTAG000000022808	<i>CACUL1</i>	protein-coding	0,696289685	4,21E-10	6,91E-08	up
ENSBTAG000000048228	<i>SNHG12</i>	ncRNA	-0,769296644	4,25E-10	6,91E-08	down
ENSBTAG000000031998	<i>CXCL16</i>	protein-coding	-0,735160431	4,60E-10	7,40E-08	down
ENSBTAG000000020313	<i>FNBP1</i>	protein-coding	-0,653927867	5,58E-10	8,88E-08	down
ENSBTAG00000015214	<i>CA3</i>	protein-coding	0,98625013	5,93E-10	9,32E-08	up
ENSBTAG000000021976	<i>NDUFS1</i>	protein-coding	0,714910092	6,09E-10	9,45E-08	up
ENSBTAG00000001770	<i>ST8SIA5</i>	protein-coding	1,233953001	6,14E-10	9,45E-08	up
ENSBTAG000000031217	<i>MYL6B</i>	protein-coding	1,765015168	6,44E-10	9,80E-08	up
ENSBTAG00000000601	<i>COL11A2</i>	protein-coding	2,2749789	7,72E-10	1,16E-07	up
ENSBTAG000000020060	<i>TXNIP</i>	protein-coding	-0,924738688	8,29E-10	1,24E-07	down
ENSBTAG000000020159	<i>NKAIN1</i>	protein-coding	1,174036619	8,70E-10	1,28E-07	up
ENSBTAG000000005364	<i>HMBS</i>	protein-coding	0,651407645	9,14E-10	1,33E-07	up
ENSBTAG00000017863	<i>SRGN</i>	protein-coding	-0,953723557	9,26E-10	1,34E-07	down
ENSBTAG000000006440	<i>IGDCC4</i>	protein-coding	1,000394634	9,57E-10	1,37E-07	up
ENSBTAG000000008940	<i>NPTX1</i>	protein-coding	-3,023095421	1,04E-09	1,47E-07	down
ENSBTAG00000001078	<i>SRL</i>	protein-coding	0,687623849	1,14E-09	1,60E-07	up
ENSBTAG000000002478	<i>AGMAT</i>	protein-coding	-1,276658252	1,18E-09	1,63E-07	down
ENSBTAG00000012771	<i>CSF1R</i>	protein-coding	-1,264840129	1,19E-09	1,63E-07	down
ENSBTAG00000015405	<i>DCHS1</i>	protein-coding	0,72129315	1,27E-09	1,72E-07	up
ENSBTAG00000019788	<i>TEAD4</i>	protein-coding	0,620847661	1,28E-09	1,72E-07	up
ENSBTAG000000051744	<i>NA</i>	NA	0,841490839	1,42E-09	1,89E-07	up
ENSBTAG00000011659	<i>PIGZ</i>	protein-coding	1,185344552	1,43E-09	1,89E-07	up
ENSBTAG00000011193	<i>C1QC</i>	protein-coding	-1,349635832	1,86E-09	2,44E-07	down
ENSBTAG00000018369	<i>MYL2</i>	protein-coding	0,766297531	2,59E-09	3,37E-07	up
ENSBTAG000000015361	<i>CNTRF</i>	protein-coding	-1,297296833	2,85E-09	3,68E-07	down
ENSBTAG000000046218	<i>KLF11</i>	protein-coding	-1,637595744	3,18E-09	4,03E-07	down
ENSBTAG000000034689	<i>ZNRF1</i>	protein-coding	0,514787813	3,35E-09	4,20E-07	up
ENSBTAG00000017363	<i>SAT1</i>	protein-coding	-0,582996314	3,79E-09	4,72E-07	down
ENSBTAG00000005897	<i>FNTB</i>	protein-coding	-0,937186566	4,12E-09	5,04E-07	down
ENSBTAG000000020737	<i>SOX8</i>	protein-coding	1,126253175	4,46E-09	5,41E-07	up
ENSBTAG00000016345	<i>IL2RB</i>	protein-coding	-0,940005133	4,83E-09	5,80E-07	down
ENSBTAG000000052673	<i>NA</i>	NA	0,811570275	4,86E-09	5,80E-07	up
ENSBTAG000000033217	<i>TPM3</i>	protein-coding	0,636028574	5,07E-09	5,97E-07	up
ENSBTAG000000046333	<i>C6H4orf54</i>	protein-coding	0,981116994	5,09E-09	5,97E-07	up
ENSBTAG000000049190	<i>NA</i>	NA	0,887266666	5,18E-09	6,02E-07	up
ENSBTAG000000004249	<i>TANC2</i>	protein-coding	0,918632659	5,98E-09	6,91E-07	up
ENSBTAG00000015509	<i>NAMPT</i>	protein-coding	-1,001232044	6,53E-09	7,47E-07	down
ENSBTAG00000013341	<i>GYG2</i>	protein-coding	0,854191765	7,42E-09	8,43E-07	up
ENSBTAG0000000027654	<i>EIF4EBP1</i>	protein-coding	-0,97456298	7,55E-09	8,51E-07	down
ENSBTAG000000004159	<i>SIX2</i>	protein-coding	1,105736091	7,95E-09	8,89E-07	up
ENSBTAG000000030973	<i>TUBA1D</i>	protein-coding	0,626721074	8,14E-09	8,99E-07	up
ENSBTAG000000003275	<i>NA</i>	NA	0,858045564	8,16E-09	8,99E-07	up

ENSBTAG00000047107	<i>TNIP3</i>	protein-coding	-1,295291186	8,77E-09	9,58E-07	down
ENSBTAG00000053278	<i>NA</i>	NA	0,772361609	9,07E-09	9,84E-07	up
ENSBTAG00000011102	<i>TPCN1</i>	protein-coding	0,910309366	9,16E-09	9,86E-07	up
ENSBTAG00000014898	<i>HK3</i>	protein-coding	-1,251466989	9,49E-09	1,01E-06	down
ENSBTAG00000009663	<i>YBX3</i>	protein-coding	-0,575806838	9,55E-09	1,01E-06	down
ENSBTAG00000003808	<i>HDAC9</i>	protein-coding	0,914051848	9,62E-09	1,01E-06	up
ENSBTAG00000007592	<i>RARG</i>	protein-coding	0,50065408	1,01E-08	1,05E-06	up
ENSBTAG00000054019	<i>NA</i>	NA	0,661772844	1,15E-08	1,19E-06	up
ENSBTAG00000046335	<i>NA</i>	NA	0,663042337	1,18E-08	1,22E-06	up
ENSBTAG00000049122	<i>COL6A5</i>	protein-coding	-2,933867616	1,20E-08	1,23E-06	down
ENSBTAG00000052187	<i>NA</i>	NA	-0,609712094	1,44E-08	1,45E-06	down
ENSBTAG00000011885	<i>NNT</i>	protein-coding	0,622653474	1,45E-08	1,45E-06	up
ENSBTAG00000011982	<i>BATF3</i>	protein-coding	-1,494143122	1,53E-08	1,52E-06	down
ENSBTAG00000004079	<i>ZNF106</i>	protein-coding	0,908917616	1,78E-08	1,75E-06	up
ENSBTAG00000012970	<i>FAM53B</i>	protein-coding	0,539568195	1,83E-08	1,79E-06	up
ENSBTAG00000011843	<i>EEF1G</i>	protein-coding	0,577816627	1,84E-08	1,79E-06	up
ENSBTAG00000030974	<i>TUBA4A</i>	protein-coding	0,624698785	2,10E-08	2,02E-06	up
ENSBTAG00000049408	<i>NA</i>	NA	-1,078251573	2,14E-08	2,04E-06	down
ENSBTAG00000020554	<i>AIF1</i>	protein-coding	-1,12128051	2,24E-08	2,11E-06	down
ENSBTAG00000019623	<i>GRID1</i>	protein-coding	0,760858289	2,54E-08	2,38E-06	up
ENSBTAG00000020050	<i>MLEC</i>	protein-coding	0,718051072	2,84E-08	2,64E-06	up
ENSBTAG00000006233	<i>NIM1K</i>	protein-coding	0,888235945	3,31E-08	3,06E-06	up
ENSBTAG00000002199	<i>CORIN</i>	protein-coding	0,70907678	3,35E-08	3,08E-06	up
ENSBTAG00000001305	<i>ATP2B2</i>	protein-coding	1,39607656	3,42E-08	3,12E-06	up
ENSBTAG00000011392	<i>MYBPC1</i>	protein-coding	0,516487373	3,55E-08	3,19E-06	up
ENSBTAG000000051834	<i>NA</i>	NA	0,510589745	3,68E-08	3,29E-06	up
ENSBTAG00000017719	<i>AKAP6</i>	protein-coding	0,750135699	3,88E-08	3,45E-06	up
ENSBTAG00000009951	<i>PGP</i>	protein-coding	0,669696037	3,92E-08	3,46E-06	up
ENSBTAG00000009115	<i>SPSB4</i>	protein-coding	0,810634149	4,13E-08	3,63E-06	up
ENSBTAG00000006349	<i>EXTL1</i>	protein-coding	1,155592587	4,21E-08	3,67E-06	up
ENSBTAG00000011483	<i>SCARF1</i>	protein-coding	-0,712792856	4,41E-08	3,81E-06	down
ENSBTAG00000017715	<i>HOMER2</i>	protein-coding	0,669315588	4,60E-08	3,94E-06	up
ENSBTAG00000014396	<i>KLF10</i>	protein-coding	-0,950498177	4,93E-08	4,18E-06	down
ENSBTAG00000012228	<i>SEMA4A</i>	protein-coding	-1,159469601	4,93E-08	4,18E-06	down
ENSBTAG00000032051	<i>SULT1C4</i>	protein-coding	-1,293246698	4,97E-08	4,18E-06	down
ENSBTAG00000012509	<i>DYRK1B</i>	protein-coding	0,533224177	5,23E-08	4,37E-06	up
ENSBTAG00000011182	<i>PDLIM1</i>	protein-coding	0,652420055	5,28E-08	4,37E-06	up
ENSBTAG00000008240	<i>GALNT15</i>	protein-coding	-1,637316162	5,28E-08	4,37E-06	down
ENSBTAG00000046153	<i>NA</i>	NA	-0,999320432	5,36E-08	4,41E-06	down
ENSBTAG00000007079	<i>LCP1</i>	protein-coding	-0,522197337	5,58E-08	4,57E-06	down
ENSBTAG00000020223	<i>CASQ1</i>	protein-coding	0,669536372	5,85E-08	4,73E-06	up
ENSBTAG00000009631	<i>ZNF683</i>	protein-coding	-1,08903761	5,85E-08	4,73E-06	down
ENSBTAG00000026779	<i>LYZ</i>	protein-coding	-1,298173681	6,22E-08	5,00E-06	down
ENSBTAG00000014583	<i>CALM3</i>	protein-coding	0,652601382	6,31E-08	5,05E-06	up
ENSBTAG00000019146	<i>OSBP2</i>	protein-coding	0,99292305	6,45E-08	5,13E-06	up
ENSBTAG00000055207	<i>SCD</i>	protein-coding	1,35560706	6,68E-08	5,28E-06	up
ENSBTAG00000011400	<i>DBN1</i>	protein-coding	0,658889864	6,79E-08	5,32E-06	up
ENSBTAG00000012259	<i>PNPO</i>	protein-coding	0,695744549	6,81E-08	5,32E-06	up
ENSBTAG00000006561	<i>RASGEF1B</i>	protein-coding	-0,916358453	7,33E-08	5,70E-06	down
ENSBTAG00000047502	<i>FKBP5</i>	protein-coding	-1,555363477	7,71E-08	5,96E-06	down
ENSBTAG00000017069	<i>GASK1B</i>	protein-coding	0,696280568	7,79E-08	5,99E-06	up
ENSBTAG00000008204	<i>CARNMT1</i>	protein-coding	0,72111271	7,92E-08	6,06E-06	up
ENSBTAG00000007090	<i>MYH2</i>	protein-coding	0,796362032	8,84E-08	6,73E-06	up
ENSBTAG00000047412	<i>TNFSF18</i>	protein-coding	1,334703592	9,01E-08	6,79E-06	up
ENSBTAG00000021872	<i>RASGRP1</i>	protein-coding	0,720968957	9,02E-08	6,79E-06	up
ENSBTAG00000036260	<i>LPXN</i>	protein-coding	-1,083849408	9,50E-08	7,12E-06	down
ENSBTAG00000010877	<i>ARMC12</i>	protein-coding	-2,049332701	9,61E-08	7,16E-06	down
ENSBTAG00000018747	<i>PRKAA2</i>	protein-coding	0,658033056	1,01E-07	7,52E-06	up
ENSBTAG00000016240	<i>RNF157</i>	protein-coding	0,527491146	1,07E-07	7,86E-06	up
ENSBTAG00000009159	<i>PLXNA1</i>	protein-coding	0,611246738	1,12E-07	8,20E-06	up
ENSBTAG00000012163	<i>ITGB1BP2</i>	protein-coding	0,665717324	1,14E-07	8,29E-06	up
ENSBTAG000000053969	<i>NA</i>	NA	0,629698026	1,26E-07	9,07E-06	up
ENSBTAG00000001592	<i>INSIG1</i>	protein-coding	1,24680273	1,27E-07	9,14E-06	up
ENSBTAG00000035998	<i>CKB</i>	protein-coding	-1,418030637	1,32E-07	9,42E-06	down
ENSBTAG00000023074	<i>C28H1orf198</i>	protein-coding	0,502510228	1,36E-07	9,71E-06	up

ENSBTAG00000010411	<i>ADAMTS8</i>	protein-coding	2,821314632	1,37E-07	9,71E-06	up
ENSBTAG00000010978	<i>PROX1</i>	protein-coding	0,85532529	1,41E-07	9,93E-06	up
ENSBTAG00000038048	<i>MRC1</i>	protein-coding	-1,213348429	1,44E-07	1,01E-05	down
ENSBTAG00000007450	<i>C2</i>	protein-coding	-1,412846723	1,45E-07	1,01E-05	down
ENSBTAG00000054241	<i>LOC100300896</i>	protein-coding	-1,078263672	1,48E-07	1,03E-05	down
ENSBTAG00000011580	<i>DAG1</i>	protein-coding	0,520630434	1,54E-07	1,07E-05	up
ENSBTAG00000009239	<i>SLC16A10</i>	protein-coding	0,615780741	1,60E-07	1,10E-05	up
ENSBTAG00000046544	<i>SLC7A10</i>	protein-coding	1,10698262	1,81E-07	1,24E-05	up
ENSBTAG00000038889	<i>RILP</i>	protein-coding	-0,514639994	1,87E-07	1,28E-05	down
ENSBTAG00000037765	<i>TNFAIP8L1</i>	protein-coding	0,776727348	2,09E-07	1,40E-05	up
ENSBTAG00000001471	<i>POC1A</i>	protein-coding	-0,716858523	2,20E-07	1,46E-05	down
ENSBTAG00000000894	<i>PGK1</i>	protein-coding	0,767422387	2,24E-07	1,49E-05	up
ENSBTAG00000017509	<i>MYPN</i>	protein-coding	0,526640654	2,33E-07	1,54E-05	up
ENSBTAG00000021669	<i>SOGA1</i>	protein-coding	0,541861557	2,49E-07	1,63E-05	up
ENSBTAG00000024291	<i>FAM71F2</i>	protein-coding	-1,598143247	2,58E-07	1,68E-05	down
ENSBTAG00000002362	<i>APOLD1</i>	protein-coding	-0,952754882	2,59E-07	1,68E-05	down
ENSBTAG00000023600	<i>APOD</i>	protein-coding	-0,519057832	2,70E-07	1,73E-05	down
ENSBTAG00000054721	<i>NA</i>	NA	0,64727468	2,71E-07	1,73E-05	up
ENSBTAG00000011088	<i>SLC6A6</i>	protein-coding	-0,979634214	2,76E-07	1,75E-05	down
ENSBTAG000000047420	<i>BTNL9</i>	protein-coding	-1,120421158	2,91E-07	1,84E-05	down
ENSBTAG00000013306	<i>ZBTB7C</i>	protein-coding	0,601006247	3,45E-07	2,17E-05	up
ENSBTAG00000005498	<i>SQLE</i>	protein-coding	0,999112079	3,54E-07	2,19E-05	up
ENSBTAG00000053570	<i>NA</i>	NA	0,541326238	3,71E-07	2,29E-05	up
ENSBTAG00000014387	<i>PRKAB2</i>	protein-coding	0,651602908	3,73E-07	2,29E-05	up
ENSBTAG00000034366	<i>RGS2</i>	protein-coding	-1,02238794	3,83E-07	2,33E-05	down
ENSBTAG00000010361	<i>DLL4</i>	protein-coding	0,837377651	3,84E-07	2,33E-05	up
ENSBTAG00000019079	<i>PLCB2</i>	protein-coding	-1,06307285	3,93E-07	2,37E-05	down
ENSBTAG000000004792	<i>CHMP4C</i>	protein-coding	0,63610589	3,94E-07	2,37E-05	up
ENSBTAG00000007665	<i>NPR3</i>	protein-coding	1,844228383	3,96E-07	2,37E-05	up
ENSBTAG00000005871	<i>MECOM</i>	protein-coding	0,60233278	3,98E-07	2,37E-05	up
ENSBTAG00000007439	<i>TENM4</i>	protein-coding	1,146696029	4,12E-07	2,44E-05	up
ENSBTAG00000027246	<i>UBD</i>	protein-coding	-0,945770564	4,42E-07	2,61E-05	down
ENSBTAG00000016775	<i>SLC27A1</i>	protein-coding	0,515673662	4,61E-07	2,70E-05	up
ENSBTAG00000012451	<i>BOLA-DMB</i>	protein-coding	-0,589499864	4,64E-07	2,70E-05	down
ENSBTAG00000014357	<i>SDC2</i>	protein-coding	0,61025531	4,65E-07	2,70E-05	up
ENSBTAG00000008735	<i>VASH1</i>	protein-coding	1,100227535	4,73E-07	2,74E-05	up
ENSBTAG00000001003	<i>CKMT2</i>	protein-coding	0,5873481	4,76E-07	2,74E-05	up
ENSBTAG00000008063	<i>PPARA</i>	protein-coding	0,780455815	4,78E-07	2,74E-05	up
ENSBTAG00000021508	<i>LMOD3</i>	protein-coding	0,560284777	4,81E-07	2,74E-05	up
ENSBTAG00000000804	<i>MOB3B</i>	protein-coding	-0,738526726	4,81E-07	2,74E-05	down
ENSBTAG00000050863	<i>NA</i>	NA	-1,600682568	5,02E-07	2,84E-05	down
ENSBTAG000000004177	<i>TANC1</i>	protein-coding	0,506744996	5,05E-07	2,85E-05	up
ENSBTAG00000053775	<i>NA</i>	NA	-0,663852188	5,47E-07	3,06E-05	down
ENSBTAG00000010994	<i>CTSF</i>	protein-coding	-0,57990403	5,48E-07	3,06E-05	down
ENSBTAG00000006817	<i>CBL</i>	protein-coding	0,698807042	5,79E-07	3,23E-05	up
ENSBTAG00000013004	<i>ITIH5</i>	protein-coding	0,585167761	5,82E-07	3,23E-05	up
ENSBTAG00000020219	<i>MSS51</i>	protein-coding	0,831812503	6,33E-07	3,49E-05	up
ENSBTAG00000053812	<i>NA</i>	NA	0,939347031	6,52E-07	3,58E-05	up
ENSBTAG00000048488	<i>NA</i>	NA	0,55929227	6,93E-07	3,79E-05	up
ENSBTAG00000001842	<i>GSTM3</i>	protein-coding	-1,264616003	7,04E-07	3,83E-05	down
ENSBTAG00000017081	<i>MIEF2</i>	protein-coding	0,56627132	7,63E-07	4,11E-05	up
ENSBTAG00000040347	<i>GPC6</i>	protein-coding	-0,579715473	7,64E-07	4,11E-05	down
ENSBTAG00000033679	<i>HLCS</i>	protein-coding	0,55394624	7,69E-07	4,12E-05	up
ENSBTAG00000004564	<i>MBNL1</i>	protein-coding	-0,527023505	8,07E-07	4,31E-05	down
ENSBTAG00000019574	<i>MAPK12</i>	protein-coding	-0,541852503	8,19E-07	4,34E-05	down
ENSBTAG00000018594	<i>LIN37</i>	protein-coding	-0,515692403	8,29E-07	4,38E-05	down
ENSBTAG00000003066	<i>NSA2</i>	protein-coding	-0,556537205	8,35E-07	4,39E-05	down
ENSBTAG00000016991	<i>EFNB2</i>	protein-coding	0,593755967	8,40E-07	4,40E-05	up
ENSBTAG00000054218	<i>IGFBP5</i>	protein-coding	1,086494129	8,91E-07	4,64E-05	up
ENSBTAG00000002515	<i>TNNI3</i>	protein-coding	1,374718534	9,07E-07	4,70E-05	up
ENSBTAG00000018572	<i>FLT3</i>	protein-coding	-1,617944958	9,34E-07	4,81E-05	down
ENSBTAG00000023289	<i>SLC26A10</i>	protein-coding	-0,68668429	9,35E-07	4,81E-05	down
ENSBTAG00000047155	<i>C28H10orf71</i>	protein-coding	0,547880705	9,54E-07	4,89E-05	up
ENSBTAG00000025210	<i>COL4A2</i>	protein-coding	0,539011543	1,03E-06	5,24E-05	up
ENSBTAG00000002203	<i>NDUFS2</i>	protein-coding	0,502410194	1,07E-06	5,44E-05	up

ENSBTAG00000006619	<i>MATK</i>	protein-coding	-1,02088975	1,12E-06	5,68E-05	down
ENSBTAG00000019900	<i>LNPEP</i>	protein-coding	0,657558845	1,13E-06	5,68E-05	up
ENSBTAG00000022255	<i>AR</i>	protein-coding	0,87727431	1,13E-06	5,68E-05	up
ENSBTAG00000052746	<i>NA</i>	NA	0,892864689	1,13E-06	5,68E-05	up
ENSBTAG00000039080	<i>SLC22A3</i>	protein-coding	-1,842888551	1,16E-06	5,74E-05	down
ENSBTAG00000013496	<i>CPM</i>	protein-coding	-0,780241989	1,18E-06	5,83E-05	down
ENSBTAG00000008688	<i>HEYL</i>	protein-coding	0,507701808	1,22E-06	6,01E-05	up
ENSBTAG00000003074	<i>SLC16A6</i>	protein-coding	-1,281475595	1,22E-06	6,01E-05	down
ENSBTAG00000001725	<i>CXCL10</i>	protein-coding	-1,339962918	1,23E-06	6,05E-05	down
ENSBTAG00000011500	<i>CASQ2</i>	protein-coding	1,121365175	1,30E-06	6,34E-05	up
ENSBTAG00000011338	<i>NREP</i>	protein-coding	0,809988467	1,34E-06	6,51E-05	up
ENSBTAG00000000895	<i>TAF9B</i>	protein-coding	0,698465058	1,36E-06	6,56E-05	up
ENSBTAG00000019121	<i>IFT122</i>	protein-coding	0,579911135	1,44E-06	6,93E-05	up
ENSBTAG00000016048	<i>CPT1B</i>	protein-coding	-0,635590912	1,45E-06	6,95E-05	down
ENSBTAG00000046122	<i>NRARP</i>	protein-coding	0,932489986	1,49E-06	7,11E-05	up
ENSBTAG00000003889	<i>PER1</i>	protein-coding	-0,808053091	1,52E-06	7,18E-05	down
ENSBTAG00000038238	<i>LOC101902340</i>	pseudo	0,930646289	1,53E-06	7,21E-05	up
ENSBTAG00000017256	<i>CD2</i>	protein-coding	-1,001744326	1,79E-06	8,30E-05	down
ENSBTAG00000017071	<i>C1QTNF3</i>	protein-coding	0,850462324	1,92E-06	8,92E-05	up
ENSBTAG00000003367	<i>DDO</i>	protein-coding	-0,769745366	2,13E-06	9,78E-05	down
ENSBTAG00000038844	<i>ANKRD35</i>	protein-coding	0,771324698	2,14E-06	9,78E-05	up
ENSBTAG00000037500	<i>MIR1842</i>	ncRNA	0,604131238	2,18E-06	9,86E-05	up
ENSBTAG00000020141	<i>FREM1</i>	protein-coding	0,729847386	2,18E-06	9,86E-05	up
ENSBTAG00000007506	<i>CACNG7</i>	protein-coding	1,289468375	2,22E-06	0,000100172	up
ENSBTAG00000014465	<i>SERPINE1</i>	protein-coding	-1,072072097	2,23E-06	0,000100172	down
ENSBTAG00000027676	<i>IL18BP</i>	protein-coding	-0,697751975	2,32E-06	0,00010381	down
ENSBTAG00000017938	<i>LOC112449293</i>	protein-coding	1,398693488	2,34E-06	0,000104395	up
ENSBTAG00000015769	<i>VSIG4</i>	protein-coding	-1,783446589	2,36E-06	0,000104609	down
ENSBTAG00000001193	<i>UNC93B1</i>	protein-coding	-0,67619997	2,39E-06	0,000105635	down
ENSBTAG00000054808	<i>MT1A</i>	protein-coding	-2,177883684	2,55E-06	0,00011104	down
ENSBTAG00000007635	<i>PLCL1</i>	protein-coding	0,533301754	2,59E-06	0,000112111	up
ENSBTAG00000020126	<i>MYO10</i>	protein-coding	0,574504417	2,63E-06	0,000113922	up
ENSBTAG00000048959	<i>LOC786372</i>	protein-coding	-0,800236072	2,65E-06	0,000114252	down
ENSBTAG000000034885	<i>RGCC</i>	protein-coding	-0,760366526	2,68E-06	0,000115285	down
ENSBTAG00000015996	<i>GPC1</i>	protein-coding	0,508266831	2,78E-06	0,000119135	up
ENSBTAG00000054012	<i>NA</i>	NA	0,579258889	2,89E-06	0,000122644	up
ENSBTAG00000006491	<i>AGL</i>	protein-coding	0,661917526	2,90E-06	0,000122644	up
ENSBTAG00000016396	<i>PDE11A</i>	protein-coding	1,275252683	2,96E-06	0,000124698	up
ENSBTAG00000013337	<i>DHDH</i>	protein-coding	0,777316128	2,97E-06	0,000124698	up
ENSBTAG00000050644	<i>NA</i>	NA	-0,522668402	3,09E-06	0,000129495	down
ENSBTAG00000012263	<i>ASAP3</i>	protein-coding	0,663540409	3,53E-06	0,000145635	up
ENSBTAG00000040190	<i>CCDC88B</i>	protein-coding	-1,095421581	3,53E-06	0,000145635	down
ENSBTAG00000054895	<i>LOC112445469</i>	pseudo	-1,326590595	3,54E-06	0,000145635	down
ENSBTAG00000008793	<i>RNASE1</i>	protein-coding	-0,934752751	3,62E-06	0,000147854	down
ENSBTAG00000047449	<i>LOC104968634</i>	protein-coding	-0,952496382	3,65E-06	0,000149012	down
ENSBTAG00000001197	<i>SLAMF7</i>	protein-coding	-0,932931335	3,70E-06	0,000150415	down
ENSBTAG00000030426	<i>LOC100848575</i>	protein-coding	-0,909223443	3,71E-06	0,000150415	down
ENSBTAG000000051972	<i>CEBPB</i>	protein-coding	-0,597635996	3,87E-06	0,000155812	down
ENSBTAG00000006419	<i>TNNT1</i>	protein-coding	0,558128912	3,97E-06	0,000158525	up
ENSBTAG00000021474	<i>GSDMD</i>	protein-coding	-0,603847621	3,98E-06	0,00015869	down
ENSBTAG00000008739	<i>SAMD11</i>	protein-coding	0,817800583	4,15E-06	0,000164521	up
ENSBTAG00000004742	<i>RUNX1</i>	protein-coding	-0,982364477	4,23E-06	0,00016728	down
ENSBTAG00000001061	<i>PRKCA</i>	protein-coding	0,579840529	4,24E-06	0,00016735	up
ENSBTAG00000018167	<i>NA</i>	NA	0,652841431	4,64E-06	0,00018088	up
ENSBTAG00000008437	<i>PCDH12</i>	protein-coding	1,1501743	4,80E-06	0,000186076	up
ENSBTAG00000017616	<i>ADSS1</i>	protein-coding	0,56203486	4,88E-06	0,000188619	up
ENSBTAG00000010507	<i>SLC22A16</i>	protein-coding	-1,019488707	4,97E-06	0,000191074	down
ENSBTAG00000048699	<i>NA</i>	NA	-1,072346968	5,08E-06	0,00019449	down
ENSBTAG00000018082	<i>QPRT</i>	protein-coding	1,182007814	5,14E-06	0,000196065	up
ENSBTAG00000009703	<i>MYH7</i>	protein-coding	0,59904503	5,19E-06	0,000197431	up
ENSBTAG00000025136	<i>MYOZ3</i>	protein-coding	0,610103677	5,32E-06	0,000201695	up
ENSBTAG00000052443	<i>NA</i>	NA	0,704141496	5,33E-06	0,000201695	up
ENSBTAG00000012135	<i>LARP1B</i>	protein-coding	0,603298316	5,44E-06	0,0002055	up
ENSBTAG00000012322	<i>INKA1</i>	protein-coding	0,613280883	5,58E-06	0,000209534	up
ENSBTAG00000001063	<i>HOXA4</i>	protein-coding	-0,678674482	5,58E-06	0,000209534	down

ENSBTAG00000010442	<i>PANK1</i>	protein-coding	0,806082761	5,59E-06	0,000209534	up
ENSBTAG00000021141	<i>CD8A</i>	protein-coding	-1,027907929	5,61E-06	0,000209646	down
ENSBTAG00000001051	<i>NA</i>	NA	-0,969153393	5,68E-06	0,000211668	down
ENSBTAG00000027684	<i>FOLR2</i>	protein-coding	-1,268654564	5,84E-06	0,000217195	down
ENSBTAG00000051102	<i>KCNK3</i>	protein-coding	-1,643575396	5,90E-06	0,000218089	down
ENSBTAG00000037921	<i>OVCH2</i>	protein-coding	1,101635749	6,15E-06	0,000225528	up
ENSBTAG000000012007	<i>SOCS2</i>	protein-coding	-0,659515437	6,15E-06	0,000225528	down
ENSBTAG00000038735	<i>LHB</i>	protein-coding	0,822296649	6,18E-06	0,000225528	up
ENSBTAG00000002037	<i>ATXN7L1</i>	protein-coding	-0,675654061	6,21E-06	0,000226237	down
ENSBTAG00000012969	<i>DKK2</i>	protein-coding	1,039122038	6,38E-06	0,000231329	up
ENSBTAG00000027151	<i>ARHGAP26</i>	protein-coding	-0,644735553	6,62E-06	0,000237333	down
ENSBTAG00000020602	<i>IDO1</i>	protein-coding	-0,808562232	6,63E-06	0,000237333	down
ENSBTAG00000053365	<i>CD300E</i>	protein-coding	-1,58047718	6,92E-06	0,000246209	down
ENSBTAG00000052404	<i>NA</i>	NA	0,715202202	7,12E-06	0,000252221	up
ENSBTAG00000019033	<i>CD84</i>	protein-coding	-1,083105584	7,25E-06	0,00025626	down
ENSBTAG00000003219	<i>NA</i>	NA	0,587749392	7,52E-06	0,000263888	up
ENSBTAG00000017871	<i>GNA12</i>	protein-coding	0,649295549	8,26E-06	0,000284985	up
ENSBTAG00000006579	<i>P4HA3</i>	protein-coding	-1,577620254	8,38E-06	0,00028821	down
ENSBTAG00000014466	<i>VTCN1</i>	protein-coding	0,85992335	8,46E-06	0,000289545	up
ENSBTAG00000053898	<i>NA</i>	NA	0,965658708	8,80E-06	0,000300654	up
ENSBTAG00000052514	<i>LOC100336869</i>	protein-coding	-1,168134665	9,09E-06	0,000308374	down
ENSBTAG00000009417	<i>ZFAND5</i>	protein-coding	-0,630227874	9,26E-06	0,000310923	down
ENSBTAG00000010284	<i>ETNPPL</i>	protein-coding	0,658438032	9,30E-06	0,00031103	up
ENSBTAG00000010943	<i>SLC22A23</i>	protein-coding	0,548171478	9,30E-06	0,00031103	up
ENSBTAG00000032140	<i>SBK1</i>	protein-coding	0,925801371	9,59E-06	0,000319808	up
ENSBTAG00000021310	<i>NA</i>	NA	1,00916434	9,85E-06	0,000326871	up
ENSBTAG00000017994	<i>MAX</i>	protein-coding	-0,668194114	9,87E-06	0,000326871	down
ENSBTAG00000008294	<i>KCNJ2</i>	protein-coding	0,548945504	1,01E-05	0,000333737	up
ENSBTAG00000045943	<i>CHRNA</i>	protein-coding	0,870669381	1,01E-05	0,000334377	up
ENSBTAG00000006752	<i>PFKFB4</i>	protein-coding	-0,724970203	1,03E-05	0,000338381	down
ENSBTAG00000011810	<i>ANGPTL2</i>	protein-coding	-0,503131891	1,04E-05	0,000339855	down
ENSBTAG00000012757	<i>GCNT1</i>	protein-coding	-0,699478862	1,08E-05	0,000352305	down
ENSBTAG00000008535	<i>SOCS7</i>	protein-coding	0,55979153	1,10E-05	0,000358325	up
ENSBTAG00000036028	<i>BEX2</i>	protein-coding	0,739768784	1,13E-05	0,000365119	up
ENSBTAG00000010637	<i>ARSG</i>	protein-coding	-1,170316087	1,14E-05	0,000366878	down
ENSBTAG00000052982	<i>NA</i>	NA	0,746058654	1,17E-05	0,000375855	up
ENSBTAG00000045604	<i>TTC9</i>	protein-coding	-0,626420674	1,18E-05	0,000377953	down
ENSBTAG00000009206	<i>FOXO1</i>	protein-coding	-0,698172008	1,21E-05	0,000385485	down
ENSBTAG00000032292	<i>CCDC159</i>	protein-coding	1,071478101	1,23E-05	0,000390024	up
ENSBTAG00000048650	<i>NA</i>	NA	0,830411172	1,25E-05	0,000394749	up
ENSBTAG00000011803	<i>MYH3</i>	protein-coding	0,643503208	1,27E-05	0,000397905	up
ENSBTAG00000021045	<i>E2F3</i>	protein-coding	0,523972019	1,28E-05	0,000399847	up
ENSBTAG00000018723	<i>SLC25A34</i>	protein-coding	-0,575373631	1,28E-05	0,000400198	down
ENSBTAG00000004048	<i>MCHR1</i>	protein-coding	-1,0195736	1,30E-05	0,000405243	down
ENSBTAG00000001465	<i>P2RY1</i>	protein-coding	0,814819923	1,32E-05	0,000410015	up
ENSBTAG00000005604	<i>POPDCC2</i>	protein-coding	0,764306041	1,35E-05	0,000416408	up
ENSBTAG00000008061	<i>RILPL1</i>	protein-coding	-0,595803682	1,35E-05	0,000416408	down
ENSBTAG000000026408	<i>NA</i>	NA	0,632110003	1,36E-05	0,000419766	up
ENSBTAG00000018349	<i>IFI30</i>	protein-coding	-0,986621702	1,38E-05	0,000425216	down
ENSBTAG00000021048	<i>ADM</i>	protein-coding	-0,609995557	1,40E-05	0,000430443	down
ENSBTAG00000052455	<i>MIR12056</i>	ncRNA	0,658817981	1,41E-05	0,0004312	up
ENSBTAG00000003015	<i>SESN1</i>	protein-coding	-0,692521854	1,41E-05	0,0004312	down
ENSBTAG00000009839	<i>GSTK1</i>	protein-coding	0,532303387	1,45E-05	0,00043887	up
ENSBTAG00000014229	<i>SYT17</i>	protein-coding	0,974315901	1,47E-05	0,000443187	up
ENSBTAG00000010366	<i>HCRTR1</i>	protein-coding	-0,998579051	1,49E-05	0,000445345	down
ENSBTAG00000023429	<i>PLS1</i>	protein-coding	0,718343153	1,51E-05	0,000448392	up
ENSBTAG00000052359	<i>NA</i>	NA	0,540575	1,52E-05	0,000449465	up
ENSBTAG00000050535	<i>ZNF385D</i>	protein-coding	0,700207127	1,59E-05	0,000466216	up
ENSBTAG00000007417	<i>GDF11</i>	protein-coding	0,726028949	1,59E-05	0,000466216	up
ENSBTAG00000000575	<i>TNC</i>	protein-coding	-1,271716175	1,64E-05	0,000478815	down
ENSBTAG000000001060	<i>CXCR4</i>	protein-coding	0,660429378	1,65E-05	0,000479651	up
ENSBTAG000000020330	<i>BTG1</i>	protein-coding	-0,687737675	1,65E-05	0,000479651	down
ENSBTAG00000007281	<i>SEMA6C</i>	protein-coding	0,788513115	1,70E-05	0,00049173	up
ENSBTAG00000033315	<i>DNAJC1</i>	protein-coding	-0,514657593	1,70E-05	0,00049173	down
ENSBTAG00000008006	<i>RASGRP3</i>	protein-coding	0,602796676	1,71E-05	0,000493513	up

ENSBTAG00000019203	<i>S100A4</i>	protein-coding	-0,75117395	1,72E-05	0,000494415	down
ENSBTAG00000020829	<i>PTPRK</i>	protein-coding	-0,582451091	1,73E-05	0,00049485	down
ENSBTAG00000008409	<i>MYC</i>	protein-coding	-0,835378744	1,80E-05	0,000514197	down
ENSBTAG00000005666	<i>LRRC20</i>	protein-coding	0,545538626	1,84E-05	0,000522247	up
ENSBTAG000000050967	<i>AADAT</i>	protein-coding	0,509152564	1,89E-05	0,000534301	up
ENSBTAG000000023028	<i>WDFY4</i>	protein-coding	-0,584708104	1,96E-05	0,000548171	down
ENSBTAG000000047755	<i>FNDC10</i>	protein-coding	0,842276262	1,97E-05	0,000548171	up
ENSBTAG00000019901	<i>RAD54L</i>	protein-coding	0,973531598	1,98E-05	0,000551851	up
ENSBTAG00000015386	<i>REL</i>	protein-coding	0,841546454	1,99E-05	0,000554294	up
ENSBTAG00000027181	<i>LAMA3</i>	protein-coding	0,619570184	2,03E-05	0,000563385	up
ENSBTAG00000015681	<i>RGR</i>	protein-coding	2,912751715	2,12E-05	0,000583654	up
ENSBTAG00000010742	<i>PKD2L1</i>	protein-coding	1,500166177	2,13E-05	0,000584302	up
ENSBTAG00000013573	<i>BIRC5</i>	protein-coding	0,834231886	2,15E-05	0,000590206	up
ENSBTAG00000009341	<i>CCDC146</i>	protein-coding	-0,520090387	2,17E-05	0,000592754	down
ENSBTAG00000015339	<i>ENDOV</i>	protein-coding	-0,961440535	2,23E-05	0,000606049	down
ENSBTAG00000000995	<i>TENT5A</i>	protein-coding	-0,747505205	2,25E-05	0,000610779	down
ENSBTAG00000012060	<i>LPIN2</i>	protein-coding	0,558469319	2,26E-05	0,000610779	up
ENSBTAG00000016801	<i>RXRG</i>	protein-coding	0,646399783	2,32E-05	0,000626078	up
ENSBTAG00000003177	<i>SLC25A33</i>	protein-coding	-0,897301355	2,34E-05	0,000628362	down
ENSBTAG00000008169	<i>C24H18orf54</i>	protein-coding	-0,562252422	2,34E-05	0,000629418	down
ENSBTAG000000045862	<i>FERMT3</i>	protein-coding	-0,651349517	2,36E-05	0,000632002	down
ENSBTAG000000033221	<i>CCDC152</i>	protein-coding	-0,680010115	2,37E-05	0,000633956	down
ENSBTAG00000012519	<i>XDH</i>	protein-coding	-0,777670991	2,41E-05	0,000640982	down
ENSBTAG000000050392	<i>FAM171B</i>	protein-coding	-0,836475628	2,61E-05	0,000688193	down
ENSBTAG000000054688	<i>SOX7</i>	protein-coding	0,50522845	2,64E-05	0,000694014	up
ENSBTAG000000052707	<i>NA</i>	NA	0,601508034	2,65E-05	0,000694624	up
ENSBTAG000000004735	<i>CCNE1</i>	protein-coding	0,578765427	2,69E-05	0,000702752	up
ENSBTAG000000009733	<i>FBP1</i>	protein-coding	-1,259915628	2,77E-05	0,000713574	down
ENSBTAG000000002894	<i>TNFSF4</i>	protein-coding	1,027336952	2,78E-05	0,000714233	up
ENSBTAG00000001881	<i>SLC10A1</i>	protein-coding	-0,728508219	2,78E-05	0,000714233	down
ENSBTAG000000002092	<i>PI16</i>	protein-coding	0,709610823	2,79E-05	0,000715533	up
ENSBTAG000000046158	<i>CFB</i>	protein-coding	-1,382319953	2,79E-05	0,000715533	down
ENSBTAG000000017450	<i>KLHL24</i>	protein-coding	0,543558682	2,88E-05	0,000735558	up
ENSBTAG000000051111	<i>NA</i>	NA	0,757147145	3,02E-05	0,000765181	up
ENSBTAG000000004126	<i>MLF1</i>	protein-coding	0,531620407	3,05E-05	0,000768421	up
ENSBTAG000000005048	<i>DHRS7C</i>	protein-coding	0,590264746	3,07E-05	0,000772598	up
ENSBTAG00000017223	<i>MEST</i>	protein-coding	0,762736504	3,10E-05	0,000778924	up
ENSBTAG000000050334	<i>CD83</i>	protein-coding	-1,020170588	3,22E-05	0,00080554	down
ENSBTAG00000002699	<i>KIT</i>	protein-coding	0,682341427	3,25E-05	0,000811288	up
ENSBTAG000000033731	<i>PRCP</i>	protein-coding	0,52739454	3,28E-05	0,000817993	up
ENSBTAG000000052838	<i>NA</i>	NA	0,648688023	3,34E-05	0,000832133	up
ENSBTAG000000008954	<i>PSMB9</i>	protein-coding	-0,538249645	3,35E-05	0,0008324	down
ENSBTAG000000004394	<i>PKIB</i>	protein-coding	-1,036862662	3,39E-05	0,000840448	down
ENSBTAG000000052248	<i>NA</i>	NA	0,567552707	3,48E-05	0,000858339	up
ENSBTAG000000049855	<i>NA</i>	NA	-0,697424482	3,49E-05	0,000860803	down
ENSBTAG000000008571	<i>CUX2</i>	protein-coding	1,099640718	3,58E-05	0,000879053	up
ENSBTAG000000022169	<i>PREX2</i>	protein-coding	0,501638065	3,61E-05	0,000879545	up
ENSBTAG000000010849	<i>ANKRD23</i>	protein-coding	0,540686997	3,61E-05	0,000879545	up
ENSBTAG000000002983	<i>NT5C1A</i>	protein-coding	0,665503991	3,62E-05	0,000879545	up
ENSBTAG00000010760	<i>REV3L</i>	protein-coding	-0,525981856	3,65E-05	0,000884532	down
ENSBTAG00000020696	<i>HECW2</i>	protein-coding	0,630570046	3,78E-05	0,000911642	up
ENSBTAG00000020037	<i>CYB5RL</i>	protein-coding	0,607513972	3,81E-05	0,000918521	up
ENSBTAG000000051082	<i>DST</i>	protein-coding	0,502457658	3,98E-05	0,000955208	up
ENSBTAG000000004862	<i>TUB</i>	protein-coding	0,869665875	4,00E-05	0,000957184	up
ENSBTAG000000050493	<i>NA</i>	NA	-0,701417567	4,00E-05	0,000957184	down
ENSBTAG000000021073	<i>KIAA1549</i>	protein-coding	0,649160802	4,08E-05	0,000971562	up
ENSBTAG000000009353	<i>EVI2B</i>	protein-coding	-0,78269647	4,09E-05	0,000971805	down
ENSBTAG000000039196	<i>LOC510860</i>	protein-coding	-1,638872386	4,14E-05	0,000976444	down
ENSBTAG00000010138	<i>SEMA3B</i>	protein-coding	-0,616830917	4,14E-05	0,000976444	down
ENSBTAG00000014831	<i>PPP1R3C</i>	protein-coding	0,993613778	4,15E-05	0,000976444	up
ENSBTAG000000044606	<i>MIR2382</i>	ncRNA	0,582217743	4,16E-05	0,000976444	up
ENSBTAG000000013666	<i>SLC25A29</i>	protein-coding	0,599551237	4,17E-05	0,000977842	up
ENSBTAG00000019230	<i>PTGER3</i>	protein-coding	-1,863746627	4,20E-05	0,000982445	down
ENSBTAG000000036127	<i>AS3MT</i>	protein-coding	0,585022946	4,64E-05	0,001070411	up
ENSBTAG000000008636	<i>PDE4B</i>	protein-coding	-0,665427843	4,66E-05	0,001073338	down

ENSBTAG00000014224	<i>IGSF9B</i>	protein-coding	1,415607868	4,67E-05	0,0010746	up
ENSBTAG00000009846	<i>MTHFD1L</i>	protein-coding	-0,723901783	4,79E-05	0,00109641	down
ENSBTAG000000051103	<i>NA</i>	NA	0,706855996	4,80E-05	0,001098127	up
ENSBTAG00000012738	<i>ZNF827</i>	protein-coding	0,732178506	4,85E-05	0,00110682	up
ENSBTAG00000026326	<i>SPN</i>	protein-coding	-0,745972221	4,95E-05	0,001125371	down
ENSBTAG00000018248	<i>MGLL</i>	protein-coding	-0,550457719	5,02E-05	0,001139738	down
ENSBTAG000000049378	<i>NA</i>	NA	1,079973298	5,05E-05	0,001142749	up
ENSBTAG00000007668	<i>AGPAT4</i>	protein-coding	0,875617236	5,06E-05	0,00114509	up
ENSBTAG00000008714	<i>CLSTN2</i>	protein-coding	0,68149513	5,25E-05	0,00118341	up
ENSBTAG000000051237	<i>NA</i>	NA	-1,083490031	5,31E-05	0,00119432	down
ENSBTAG00000002096	<i>FCGR3A</i>	protein-coding	-0,866365674	5,33E-05	0,001196628	down
ENSBTAG00000009634	<i>HOXC5</i>	protein-coding	0,94843252	5,53E-05	0,001235352	up
ENSBTAG00000016711	<i>PPIF</i>	protein-coding	0,735148389	5,53E-05	0,001235352	up
ENSBTAG00000011622	<i>C24H18orf21</i>	protein-coding	-0,660727449	5,62E-05	0,001245593	down
ENSBTAG000000049909	<i>AGBL1</i>	protein-coding	0,732403446	5,63E-05	0,001245892	up
ENSBTAG00000017752	<i>DYNLRB2</i>	protein-coding	-1,043102501	5,89E-05	0,001292582	down
ENSBTAG00000003341	<i>DOK2</i>	protein-coding	-0,917809229	6,01E-05	0,001315346	down
ENSBTAG000000032899	<i>NA</i>	NA	0,688624238	6,04E-05	0,00131726	up
ENSBTAG000000021173	<i>CCDC134</i>	protein-coding	0,644764973	6,13E-05	0,001328479	up
ENSBTAG000000054018	<i>NA</i>	NA	-1,084951598	6,15E-05	0,00133156	down
ENSBTAG00000010389	<i>STBD1</i>	protein-coding	0,562405253	6,26E-05	0,001347233	up
ENSBTAG00000013017	<i>GNAT2</i>	protein-coding	0,501778931	6,35E-05	0,001362738	up
ENSBTAG000000047621	<i>NA</i>	NA	-1,090195903	6,56E-05	0,001404714	down
ENSBTAG00000011766	<i>C7</i>	protein-coding	-0,598385352	6,81E-05	0,001447603	down
ENSBTAG00000000604	<i>GPNMB</i>	protein-coding	-1,600928143	6,86E-05	0,001455219	down
ENSBTAG000000038700	<i>FAM124B</i>	protein-coding	0,985017777	6,87E-05	0,001455219	up
ENSBTAG000000008592	<i>FCGR1A</i>	protein-coding	-1,129120105	6,87E-05	0,001455219	down
ENSBTAG000000008401	<i>PFKFB3</i>	protein-coding	-1,330827236	7,09E-05	0,001493902	down
ENSBTAG000000004361	<i>ZBTB37</i>	protein-coding	0,724395962	7,15E-05	0,00150507	up
ENSBTAG00000014555	<i>CASS4</i>	protein-coding	-1,234110525	7,24E-05	0,001521883	down
ENSBTAG000000009844	<i>CCN1</i>	protein-coding	-0,738894768	7,33E-05	0,001535925	down
ENSBTAG000000000917	<i>BMP1</i>	protein-coding	0,502717241	7,35E-05	0,001537569	up
ENSBTAG000000021263	<i>CYP4V2</i>	protein-coding	-0,53843528	7,46E-05	0,00155767	down
ENSBTAG000000004468	<i>BARX1</i>	protein-coding	0,974709146	7,55E-05	0,001573259	up
ENSBTAG000000029906	<i>MIR133A-2</i>	ncRNA	0,701854331	7,67E-05	0,001593039	up
ENSBTAG000000002024	<i>ASB18</i>	protein-coding	0,709015102	7,87E-05	0,001624298	up
ENSBTAG00000015326	<i>GSDME</i>	protein-coding	-0,613026318	7,96E-05	0,001635375	down
ENSBTAG000000039340	<i>SCN4B</i>	protein-coding	0,789257288	8,25E-05	0,001688114	up
ENSBTAG00000011238	<i>CD48</i>	protein-coding	-0,680092987	8,34E-05	0,001704436	down
ENSBTAG00000014548	<i>NIBAN1</i>	protein-coding	0,507633186	8,37E-05	0,001707174	up
ENSBTAG000000003650	<i>NR4A2</i>	protein-coding	-0,871856552	8,60E-05	0,001746713	down
ENSBTAG00000017187	<i>TMEM255A</i>	protein-coding	-0,783945237	8,68E-05	0,001755415	down
ENSBTAG000000050876	<i>NA</i>	NA	0,657708255	9,02E-05	0,001807046	up
ENSBTAG00000015821	<i>AMPD3</i>	protein-coding	-1,107446692	9,10E-05	0,001813257	down
ENSBTAG000000037778	<i>CXCL3</i>	protein-coding	-0,907228935	9,12E-05	0,001815674	down
ENSBTAG000000000246	<i>ME3</i>	protein-coding	-0,650599623	9,22E-05	0,001829933	down
ENSBTAG000000051012	<i>LOC104973829</i>	ncRNA	1,565281671	9,56E-05	0,001894173	up
ENSBTAG000000002965	<i>NEURL3</i>	protein-coding	-1,162100788	9,61E-05	0,001895084	down
ENSBTAG000000002574	<i>MYOZ2</i>	protein-coding	0,620543837	9,62E-05	0,001895084	up
ENSBTAG000000006260	<i>KIAA1614</i>	protein-coding	0,553681759	9,63E-05	0,001895084	up
ENSBTAG000000052788	<i>NA</i>	NA	0,845600929	9,64E-05	0,001895852	up
ENSBTAG00000015739	<i>MRC2</i>	protein-coding	0,556053933	9,71E-05	0,00190588	up
ENSBTAG00000019533	<i>ADTRP</i>	protein-coding	0,791054817	9,83E-05	0,001926836	up
ENSBTAG00000011241	<i>HPDL</i>	protein-coding	1,431119642	9,99E-05	0,001953133	up
ENSBTAG000000051072	<i>AQP4</i>	protein-coding	1,084635553	9,99E-05	0,001953133	up
ENSBTAG00000019378	<i>KIAA1755</i>	protein-coding	-0,694952515	0,000100965	0,001967985	down
ENSBTAG000000053677	<i>HERC1</i>	protein-coding	0,533814575	0,000102308	0,001989308	up
ENSBTAG00000015656	<i>WSCD1</i>	protein-coding	0,581874741	0,000102777	0,001993661	up
ENSBTAG000000008605	<i>DNAH2</i>	protein-coding	0,893891396	0,000103338	0,002001169	up
ENSBTAG000000021971	<i>SNCAIP</i>	protein-coding	0,581030412	0,000104243	0,002013252	up
ENSBTAG000000050626	<i>NA</i>	NA	0,752094475	0,0001082	0,00207702	up
ENSBTAG000000007823	<i>TG</i>	protein-coding	-0,752809107	0,000111005	0,002115295	down
ENSBTAG00000012815	<i>CLEC12A</i>	protein-coding	-1,136968262	0,000115142	0,002175485	down
ENSBTAG00000016768	<i>SCN3B</i>	protein-coding	-1,2874549	0,000118251	0,002226691	down
ENSBTAG000000000570	<i>RET</i>	protein-coding	-0,679687219	0,000118811	0,002234301	down

ENSBTAG00000050446	NA	NA	0,809465599	0,000125007	0,002329389	up
ENSBTAG00000006957	SLC2A8	protein-coding	-0,731933878	0,000127611	0,002365684	down
ENSBTAG00000020739	NXT2	protein-coding	-0,603723984	0,000130857	0,002413275	down
ENSBTAG00000051245	SOX4	protein-coding	0,819254421	0,000134191	0,002453058	up
ENSBTAG00000047827	RENBP	protein-coding	-0,861110017	0,000134386	0,002453058	down
ENSBTAG00000011644	THSD4	protein-coding	0,54432921	0,000136827	0,002493846	up
ENSBTAG00000021041	PRAM1	protein-coding	-0,783568547	0,000136969	0,002493846	down
ENSBTAG00000011545	GDA	protein-coding	-0,521004561	0,000142191	0,002572561	down
ENSBTAG00000015980	FASN	protein-coding	0,948491304	0,000144693	0,002607446	up
ENSBTAG00000021487	CIART	protein-coding	-0,843060244	0,000144848	0,002607446	down
ENSBTAG00000013235	TINAGL1	protein-coding	-0,557171758	0,000146431	0,00262933	down
ENSBTAG00000054349	NA	NA	0,512257414	0,000148091	0,00265247	up
ENSBTAG00000008583	PALD1	protein-coding	0,636614213	0,000149261	0,002670091	up
ENSBTAG00000013205	IL1RAP	protein-coding	-0,855130242	0,000150292	0,002685177	down
ENSBTAG00000004849	IGSF3	protein-coding	0,532158625	0,000153232	0,0027241	up
ENSBTAG00000052600	NA	NA	0,949373079	0,000154355	0,002737239	up
ENSBTAG00000011788	CXHXorf38	protein-coding	0,571055913	0,000156986	0,002777035	up
ENSBTAG00000048075	IGSF23	protein-coding	0,604409468	0,000158941	0,002797798	up
ENSBTAG00000011359	CD7	protein-coding	-1,026546469	0,000160767	0,002816087	down
ENSBTAG00000021249	LAT	protein-coding	-0,741572379	0,000162853	0,002845647	down
ENSBTAG00000001462	FLT4	protein-coding	0,848849247	0,000163443	0,002849574	up
ENSBTAG00000046121	LOC100196897	protein-coding	1,332685889	0,000163476	0,002849574	up
ENSBTAG00000049004	NA	NA	-0,743335673	0,000163816	0,002852036	down
ENSBTAG00000019567	IL21R	protein-coding	-0,980320598	0,000165634	0,002876679	down
ENSBTAG00000037951	KLHL6	protein-coding	0,970457075	0,000178568	0,003071491	up
ENSBTAG00000009287	EBP	protein-coding	0,578520366	0,00018646	0,003184275	up
ENSBTAG00000010661	DPYSL3	protein-coding	0,611530906	0,000187197	0,003189264	up
ENSBTAG00000033386	TEX26	protein-coding	-0,655458658	0,000189727	0,003220859	down
ENSBTAG00000048122	CFD	protein-coding	-0,608440541	0,000194456	0,003285553	down
ENSBTAG00000038523	ATP1A4	protein-coding	0,810750421	0,000196069	0,003305002	up
ENSBTAG00000009852	NAV3	protein-coding	0,573818515	0,000198707	0,003334527	up
ENSBTAG00000020105	AQP7	protein-coding	0,530253946	0,000201724	0,003368573	up
ENSBTAG00000018223	CHI3L1	protein-coding	-0,917319997	0,000203684	0,003385505	down
ENSBTAG00000043570	NA	NA	-0,536195101	0,000206212	0,003415619	down
ENSBTAG00000004034	SESN3	protein-coding	0,539310354	0,000211783	0,003479716	up
ENSBTAG00000001229	SLC25A22	protein-coding	-0,783504221	0,000212072	0,003480458	down
ENSBTAG00000020713	BACH2	protein-coding	-0,555144021	0,000213147	0,003490101	down
ENSBTAG00000011482	SLC43A2	protein-coding	-1,164934935	0,000213483	0,003491603	down
ENSBTAG00000038124	FCGR2A	protein-coding	-1,269715996	0,000213886	0,003494211	down
ENSBTAG00000052719	NA	NA	0,613094692	0,000215902	0,003519111	up
ENSBTAG00000038286	PPDPFL	protein-coding	-1,070351816	0,000216804	0,003529782	down
ENSBTAG00000020661	ABCA1	protein-coding	-0,851898937	0,00021877	0,003553716	down
ENSBTAG00000027051	PTAFR	protein-coding	-0,847132029	0,00022114	0,003580207	down
ENSBTAG00000005504	TP53INP2	protein-coding	0,722447057	0,000221793	0,003580881	up
ENSBTAG00000004207	CD93	protein-coding	0,591627415	0,000224717	0,003613394	up
ENSBTAG00000013420	FSD1L	protein-coding	0,617092266	0,000225784	0,003626479	up
ENSBTAG00000007103	ITGAL	protein-coding	-0,577742067	0,000228091	0,003655336	down
ENSBTAG00000007467	MIB1	protein-coding	0,513037021	0,000230398	0,003676274	up
ENSBTAG00000008353	CDKN1A	protein-coding	-0,786349012	0,00023471	0,003732156	down
ENSBTAG00000000595	FBN3	protein-coding	0,961442441	0,000239788	0,003796029	up
ENSBTAG00000006777	TLCD1	protein-coding	-0,7525428	0,000241023	0,003807153	down
ENSBTAG00000017032	FREM2	protein-coding	0,717883379	0,000245389	0,003863324	up
ENSBTAG00000008792	RNASE6	protein-coding	-0,791392606	0,000250223	0,003910331	down
ENSBTAG00000011960	GOT1	protein-coding	0,64443418	0,000250347	0,003910331	up
ENSBTAG00000046555	WAS	protein-coding	-0,642173169	0,000250854	0,003910331	down
ENSBTAG00000014218	DKK1	protein-coding	-0,90966488	0,000260592	0,004044833	down
ENSBTAG00000000745	AQP1	protein-coding	0,665543237	0,000262488	0,004069842	up
ENSBTAG00000015032	CD14	protein-coding	-0,781273708	0,000264472	0,004091741	down
ENSBTAG00000003718	HACL1	protein-coding	-0,622107995	0,000266097	0,004112437	down
ENSBTAG00000015144	GMIP	protein-coding	-0,516671256	0,000270537	0,004167556	down
ENSBTAG000000005617	SLC41A3	protein-coding	0,652927848	0,000271128	0,004172161	up
ENSBTAG000000025398	LOC504548	protein-coding	-0,703383915	0,000272114	0,00417835	down
ENSBTAG00000019332	SLC9C1	protein-coding	0,733519344	0,000275862	0,004219376	up
ENSBTAG00000019053	MAP9	protein-coding	0,669767976	0,000282499	0,004287214	up
ENSBTAG00000014418	FHIT	protein-coding	-0,760439804	0,000284876	0,004309582	down

ENSBTAG00000023851	<i>FAM102A</i>	protein-coding	0,730332129	0,000290929	0,004382623	up
ENSBTAG00000019302	<i>BCL2</i>	protein-coding	-0,546952046	0,000293218	0,004393967	down
ENSBTAG00000012673	<i>CDK18</i>	protein-coding	0,630655464	0,000296651	0,004431499	up
ENSBTAG00000003088	<i>LANCL3</i>	protein-coding	0,755769486	0,000303647	0,004517147	up
ENSBTAG000000002025	<i>AMIGO2</i>	protein-coding	0,79596603	0,000304764	0,004529055	up
ENSBTAG000000008798	<i>DRC3</i>	protein-coding	0,805489061	0,000315035	0,004652702	up
ENSBTAG00000007379	<i>ALK</i>	protein-coding	-0,814871593	0,000317347	0,004663538	down
ENSBTAG00000007835	<i>GPT</i>	protein-coding	0,584100485	0,000317398	0,004663538	up
ENSBTAG00000055014	<i>SH3BGRL2</i>	protein-coding	-0,69925325	0,000319978	0,004691814	down
ENSBTAG00000012599	<i>SMAD3</i>	protein-coding	0,520779857	0,000325581	0,004750078	up
ENSBTAG00000012128	<i>AASS</i>	protein-coding	0,517824837	0,000328433	0,004773041	up
ENSBTAG00000009137	<i>NKG7</i>	protein-coding	-0,8369686	0,000329086	0,004773041	down
ENSBTAG00000023929	<i>FOSL2</i>	protein-coding	-0,650871533	0,000332847	0,004821235	down
ENSBTAG00000044348	<i>MIR2466</i>	ncRNA	0,555969209	0,000333325	0,004822183	up
ENSBTAG00000011266	<i>ZBTB16</i>	protein-coding	-0,520406787	0,000336051	0,004852906	down
ENSBTAG00000005431	<i>LMCD1</i>	protein-coding	0,59952641	0,000338727	0,004886619	up
ENSBTAG00000004950	<i>BRB</i>	protein-coding	-0,805253515	0,000340089	0,004901321	down
ENSBTAG00000033308	<i>NA</i>	NA	0,535012187	0,000342456	0,004925519	up
ENSBTAG00000005300	<i>TMEM51</i>	protein-coding	0,650772242	0,000344671	0,004939448	up
ENSBTAG00000012302	<i>RTN4RL1</i>	protein-coding	-0,613813813	0,000347488	0,004972898	down
ENSBTAG00000007094	<i>MINAR1</i>	protein-coding	0,929519724	0,000362784	0,00514549	up
ENSBTAG00000048796	<i>NA</i>	NA	0,573793782	0,000365393	0,005163356	up
ENSBTAG00000031777	<i>GDPD5</i>	protein-coding	-0,687830348	0,000366449	0,005171841	down
ENSBTAG00000038464	<i>PLIN5</i>	protein-coding	-0,598889821	0,000370414	0,00522266	down
ENSBTAG00000007415	<i>SLC7A8</i>	protein-coding	-1,107931319	0,000378517	0,005323321	down
ENSBTAG00000005284	<i>SERPINE3</i>	protein-coding	-0,541627277	0,000378799	0,005323321	down
ENSBTAG000000051059	<i>NA</i>	NA	0,682518309	0,000380378	0,005327313	up
ENSBTAG00000015160	<i>PLD4</i>	protein-coding	-0,762901318	0,000387699	0,005384319	down
ENSBTAG00000049281	<i>NA</i>	NA	0,714064514	0,000387824	0,005384319	up
ENSBTAG00000038938	<i>LOC781710</i>	protein-coding	-0,771306673	0,0003879	0,005384319	down
ENSBTAG00000052348	<i>NA</i>	NA	0,586360666	0,000390124	0,00539842	up
ENSBTAG00000049549	<i>NA</i>	NA	0,651646067	0,000391485	0,005407859	up
ENSBTAG00000000897	<i>IQGAP2</i>	protein-coding	-0,514686114	0,000394494	0,005426359	down
ENSBTAG00000005668	<i>SLC39A8</i>	protein-coding	-0,76735073	0,000395053	0,005426359	down
ENSBTAG00000013929	<i>RRAD</i>	protein-coding	0,726955568	0,000395099	0,005426359	up
ENSBTAG00000002333	<i>HOPX</i>	protein-coding	-0,638762561	0,000398681	0,005459831	down
ENSBTAG00000033335	<i>LOC617694</i>	pseudo	-1,745095483	0,000410781	0,005598746	down
ENSBTAG00000051075	<i>NA</i>	NA	0,628567256	0,000411603	0,005601072	up
ENSBTAG00000018424	<i>ACKR3</i>	protein-coding	0,54412314	0,000411734	0,005601072	up
ENSBTAG00000029826	<i>MIR133B</i>	ncRNA	0,748754392	0,000415035	0,005624582	up
ENSBTAG00000010981	<i>CIB2</i>	protein-coding	1,013645214	0,000418106	0,005660843	up
ENSBTAG00000049218	<i>NA</i>	NA	0,60781296	0,000421166	0,005696881	up
ENSBTAG00000016312	<i>LGALS4</i>	protein-coding	-0,514374789	0,00042282	0,005708466	down
ENSBTAG00000008509	<i>SLC38A3</i>	protein-coding	0,751319469	0,000439636	0,005891043	up
ENSBTAG00000017690	<i>CARNS1</i>	protein-coding	0,805037598	0,000441482	0,005910243	up
ENSBTAG00000046324	<i>LOC100297676</i>	protein-coding	-0,588267654	0,000443624	0,005929964	down
ENSBTAG00000012393	<i>AGT</i>	protein-coding	-0,939446673	0,000446692	0,005952153	down
ENSBTAG00000018571	<i>IL1RL1</i>	protein-coding	-1,440652266	0,000453508	0,006031743	down
ENSBTAG00000053497	<i>GNLY</i>	protein-coding	-0,707687697	0,000454221	0,006035612	down
ENSBTAG00000012409	<i>POSTN</i>	protein-coding	-1,134814026	0,000460981	0,006099559	down
ENSBTAG00000014237	<i>CYTH4</i>	protein-coding	-0,660986366	0,000466583	0,006137194	down
ENSBTAG00000011992	<i>PTH2R</i>	protein-coding	0,830375822	0,000474774	0,006193696	up
ENSBTAG00000047997	<i>PRPS2</i>	protein-coding	-0,534925449	0,000487722	0,006333957	down
ENSBTAG00000005461	<i>SOX15</i>	protein-coding	-0,519055532	0,000488574	0,00633906	down
ENSBTAG00000052721	<i>NA</i>	NA	-0,897062609	0,000492299	0,006375831	down
ENSBTAG00000047902	<i>ULBP21</i>	protein-coding	1,036069758	0,00049391	0,006390907	up
ENSBTAG00000051385	<i>NA</i>	NA	-0,814151564	0,00049942	0,00643892	down
ENSBTAG00000054325	<i>NA</i>	NA	-0,640317917	0,000501588	0,006455237	down
ENSBTAG00000005170	<i>ADGRG5</i>	protein-coding	-0,830548339	0,000515066	0,006587228	down
ENSBTAG00000007828	<i>SLA</i>	protein-coding	-0,70130839	0,000523988	0,006671529	down
ENSBTAG000000004705	<i>ILDR1</i>	protein-coding	-0,809685655	0,000528079	0,006711672	down
ENSBTAG000000021298	<i>NTMT2</i>	protein-coding	0,903396551	0,00053665	0,006802474	up
ENSBTAG00000026638	<i>CATSPER4</i>	protein-coding	0,578618527	0,000539385	0,0068311	up
ENSBTAG00000009830	<i>PLEKHB1</i>	protein-coding	0,577286588	0,000548985	0,006922048	up
ENSBTAG00000051933	<i>NA</i>	NA	-1,035396089	0,000558479	0,007017022	down

ENSBTAG00000001835	<i>GJA1</i>	protein-coding	0,645019263	0,000559443	0,007019575	up
ENSBTAG00000024503	<i>FCER1G</i>	protein-coding	-0,562935136	0,000560227	0,007020504	down
ENSBTAG00000009775	<i>PRRG3</i>	protein-coding	0,812375706	0,000571469	0,007136383	up
ENSBTAG00000016650	<i>TIGAR</i>	protein-coding	0,54623734	0,000585461	0,007273037	up
ENSBTAG00000024340	<i>TRIL</i>	protein-coding	0,719992367	0,000591212	0,007331745	up
ENSBTAG00000054043	<i>NA</i>	NA	0,911562617	0,00059291	0,007333734	up
ENSBTAG00000005708	<i>KIF20B</i>	protein-coding	-0,510550665	0,000612904	0,007528984	down
ENSBTAG00000023452	<i>B9D2</i>	protein-coding	0,502584808	0,000624492	0,007638547	up
ENSBTAG00000020872	<i>C5AR1</i>	protein-coding	-0,973474663	0,000629661	0,007683412	down
ENSBTAG00000019605	<i>OPA3</i>	protein-coding	0,607498592	0,000637134	0,007725239	up
ENSBTAG00000001852	<i>BREH1</i>	protein-coding	-0,602963961	0,000637191	0,007725239	down
ENSBTAG00000049048	<i>NA</i>	NA	0,70643523	0,000637517	0,007725239	up
ENSBTAG00000029926	<i>MIR1-2</i>	ncRNA	0,739482044	0,000639717	0,007739496	up
ENSBTAG00000001788	<i>PDPN</i>	protein-coding	-0,626602161	0,000639775	0,007739496	down
ENSBTAG00000015419	<i>ARHGEF37</i>	protein-coding	0,526764194	0,000640794	0,00774447	up
ENSBTAG00000006686	<i>NPNT</i>	protein-coding	0,697017538	0,00064154	0,00774447	up
ENSBTAG00000036363	<i>MIR133A-1</i>	ncRNA	0,753816155	0,000646726	0,007764504	up
ENSBTAG00000007262	<i>ZNF536</i>	protein-coding	0,648813199	0,000647801	0,007770898	up
ENSBTAG00000005215	<i>IL10RA</i>	protein-coding	-0,837224324	0,000649047	0,007779327	down
ENSBTAG00000006801	<i>TMEM106A</i>	protein-coding	-0,563441565	0,000651225	0,007792374	down
ENSBTAG00000034091	<i>LRRC72</i>	protein-coding	0,585103286	0,000652044	0,007795657	up
ENSBTAG00000034519	<i>SMIM29</i>	protein-coding	-0,514984856	0,000656823	0,00782664	down
ENSBTAG00000019002	<i>SLC2A12</i>	protein-coding	0,502038853	0,000657883	0,007832744	up
ENSBTAG00000020355	<i>KLF4</i>	protein-coding	-0,569426782	0,000659603	0,007846704	down
ENSBTAG00000045912	<i>NA</i>	NA	-0,534391017	0,00066077	0,007854055	down
ENSBTAG00000048565	<i>BASP1</i>	protein-coding	-0,576470599	0,000665869	0,007901515	down
ENSBTAG00000020644	<i>GPC4</i>	protein-coding	0,583124724	0,000666419	0,007901515	up
ENSBTAG00000019181	<i>BAIAP2L1</i>	protein-coding	-0,608573908	0,000671508	0,007935554	down
ENSBTAG00000007689	<i>LPIN1</i>	protein-coding	-0,612072227	0,000673962	0,007953253	down
ENSBTAG00000027205	<i>PGBD5</i>	protein-coding	-0,996656294	0,000675218	0,007959675	down
ENSBTAG00000001992	<i>CYP51A1</i>	protein-coding	0,515842461	0,00067673	0,007970928	up
ENSBTAG00000010955	<i>NUP54</i>	protein-coding	-0,508112173	0,000686013	0,008042797	down
ENSBTAG00000009816	<i>SCX</i>	protein-coding	0,88464989	0,00068908	0,00806331	up
ENSBTAG000000008192	<i>PLPPR2</i>	protein-coding	0,694449762	0,000697409	0,008154099	up
ENSBTAG00000006688	<i>RPS6KL1</i>	protein-coding	0,539625893	0,000699366	0,008168529	up
ENSBTAG00000051104	<i>CGREF1</i>	protein-coding	-0,735292778	0,000702305	0,008184797	down
ENSBTAG00000021029	<i>PRR5L</i>	protein-coding	-0,857697587	0,00071414	0,008255292	down
ENSBTAG00000014551	<i>TNFAIP8</i>	protein-coding	-0,573316951	0,000715396	0,008257661	down
ENSBTAG00000033304	<i>TCIM</i>	protein-coding	-0,583484468	0,000715499	0,008257661	down
ENSBTAG00000021202	<i>ACOT7</i>	protein-coding	-0,72381563	0,000723008	0,008330897	down
ENSBTAG00000013152	<i>NIPSNAP1</i>	protein-coding	0,563513692	0,000727332	0,008368342	up
ENSBTAG00000009850	<i>GIMAP7</i>	protein-coding	-0,666261516	0,000730102	0,008385629	down
ENSBTAG00000034182	<i>LOC782966</i>	protein-coding	0,515438975	0,000734354	0,008427698	up
ENSBTAG00000031573	<i>NMRK2</i>	protein-coding	0,757227837	0,00074531	0,008512473	up
ENSBTAG00000023398	<i>UBASH3A</i>	protein-coding	-0,837844755	0,000761259	0,0086532	down
ENSBTAG00000027516	<i>APLNR</i>	protein-coding	0,560397843	0,000764883	0,00867373	up
ENSBTAG00000019988	<i>GNA15</i>	protein-coding	-0,792738415	0,000767894	0,008700969	down
ENSBTAG00000016185	<i>ENAH</i>	protein-coding	0,587716393	0,000780446	0,008829217	up
ENSBTAG00000049422	<i>TIFA</i>	protein-coding	-0,594338044	0,000800325	0,009004286	down
ENSBTAG00000021481	<i>CA14</i>	protein-coding	0,521769881	0,000806083	0,009054829	up
ENSBTAG00000044105	<i>FOXO1</i>	protein-coding	-0,889390383	0,0008324	0,009284861	down
ENSBTAG00000000133	<i>CD68</i>	protein-coding	-0,609691677	0,000840558	0,009339456	down
ENSBTAG00000051562	<i>NA</i>	NA	-0,833080405	0,000857788	0,009472069	down
ENSBTAG00000000987	<i>OTOG</i>	protein-coding	0,736836488	0,000859803	0,009479694	up
ENSBTAG00000000983	<i>ABCC8</i>	protein-coding	0,540686963	0,000868301	0,009558655	up
ENSBTAG00000018146	<i>VAT1L</i>	protein-coding	0,511800286	0,000871339	0,009580431	up
ENSBTAG00000054745	<i>NA</i>	NA	0,646558965	0,00087796	0,009637566	up
ENSBTAG00000019347	<i>PLXDC1</i>	protein-coding	0,564291897	0,000879989	0,009646975	up
ENSBTAG00000014127	<i>PTGS2</i>	protein-coding	-0,970362163	0,000882045	0,009657949	down
ENSBTAG00000053294	<i>NA</i>	NA	0,594010038	0,000886733	0,009701862	up
ENSBTAG00000003408	<i>NA</i>	NA	-1,105423695	0,000888709	0,009708634	down
ENSBTAG00000006937	<i>NA</i>	NA	-0,524499864	0,000891947	0,009736578	down
ENSBTAG00000043962	<i>SLC2A13</i>	protein-coding	-0,875803013	0,000894695	0,00975913	down
ENSBTAG00000054498	<i>NA</i>	NA	0,58777497	0,000896506	0,009771432	up
ENSBTAG00000013118	<i>CD86</i>	protein-coding	-0,649424808	0,000897613	0,009776053	down

ENSBTAG0000002605	TRIM16	protein-coding	0,501864035	0,000898805	0,009781592	up
ENSBTAG00000039652	PTGDR2	protein-coding	-0,563439595	0,000914646	0,009890881	down
ENSBTAG00000026637	CCDC162P	pseudo	0,559101267	0,000924472	0,009950306	up
ENSBTAG00000051767	NA	NA	0,508113692	0,000924986	0,009950306	up
ENSBTAG00000016688	NA	NA	0,524205429	0,000927444	0,009964456	up
ENSBTAG00000020087	CAMK2A	protein-coding	0,587653435	0,000961863	0,010251235	up
ENSBTAG00000021709	SPI1	protein-coding	-0,663911695	0,000962016	0,010251235	down
ENSBTAG00000014172	FGD2	protein-coding	-0,608726726	0,000969349	0,010314113	down
ENSBTAG00000031658	SEMA6B	protein-coding	0,515046673	0,000969358	0,010314113	up
ENSBTAG00000012991	NA	NA	0,899544472	0,000981552	0,010436102	up
ENSBTAG00000011896	GRIP2	protein-coding	0,529439809	0,001000316	0,010569899	up
ENSBTAG00000045925	CITED1	protein-coding	-0,625933744	0,001000784	0,010569899	down
ENSBTAG00000038584	OLFM1	protein-coding	0,914620488	0,001015553	0,010686212	up
ENSBTAG00000020747	ASS1	protein-coding	-0,590263039	0,001019908	0,01071652	down
ENSBTAG00000007827	RCOR2	protein-coding	0,725954313	0,001021057	0,010720723	up
ENSBTAG00000013476	CPA5	protein-coding	0,556559048	0,001022367	0,010726609	up
ENSBTAG00000037756	TET1	protein-coding	0,585391767	0,001054566	0,010960006	up
ENSBTAG00000003016	PTPN7	protein-coding	-0,790437754	0,001054568	0,010960006	down
ENSBTAG00000018948	HIF3A	protein-coding	-0,755855544	0,001064336	0,0110451	down
ENSBTAG00000011987	ERG28	protein-coding	0,538601601	0,001075344	0,01110335	up
ENSBTAG00000049736	NA	NA	0,75346933	0,001107695	0,011388096	up
ENSBTAG00000012338	FAH	protein-coding	-0,716805421	0,001118698	0,011476481	down
ENSBTAG00000034645	PON3	protein-coding	-0,519064721	0,001153115	0,011718005	down
ENSBTAG00000002151	ASB15	protein-coding	0,560344744	0,001163735	0,011769757	up
ENSBTAG00000012534	BEND3	protein-coding	0,555158746	0,001192954	0,012005887	up
ENSBTAG00000019497	ILDR2	protein-coding	0,590484097	0,001197179	0,012039936	up
ENSBTAG00000045579	LOC100295750	protein-coding	-0,605632279	0,00120572	0,012091842	down
ENSBTAG00000039050	P2RY2	protein-coding	0,536044731	0,001213966	0,012157495	up
ENSBTAG00000010954	ART3	protein-coding	-0,659508975	0,001217594	0,012168286	down
ENSBTAG00000010158	NA	NA	0,560887651	0,001242461	0,012382215	up
ENSBTAG00000008271	MEDAG	protein-coding	-0,555835345	0,001254446	0,012473816	down
ENSBTAG00000054310	NA	NA	0,522776706	0,001255139	0,012473816	up
ENSBTAG00000000181	SUSD3	protein-coding	-0,60636259	0,00127171	0,012603489	down
ENSBTAG00000012285	ESRRB	protein-coding	0,578603881	0,001275815	0,012621997	up
ENSBTAG00000003749	KCNMB4	protein-coding	-0,55109195	0,001277622	0,01262711	down
ENSBTAG00000048956	NA	NA	0,62664434	0,001278919	0,012631197	up
ENSBTAG00000019741	C3AR1	protein-coding	-1,004569602	0,001287235	0,012669613	down
ENSBTAG00000017060	ITGB2	protein-coding	-0,515841422	0,001294924	0,012727782	down
ENSBTAG00000010042	RIOK3	protein-coding	-0,501748986	0,001303531	0,012786041	down
ENSBTAG00000021189	ARHGAP36	protein-coding	0,996475848	0,001308344	0,012824456	up
ENSBTAG00000020984	RAPGEF4	protein-coding	-0,520270528	0,001309246	0,012824519	down
ENSBTAG00000015060	GBPS	protein-coding	-0,518330801	0,001312605	0,012848625	down
ENSBTAG00000009587	NRG3	protein-coding	-0,548755724	0,001319781	0,012892413	down
ENSBTAG00000052475	NA	NA	0,882941999	0,001326309	0,012947345	up
ENSBTAG00000048740	LOC518495	protein-coding	0,515032753	0,001332515	0,012999057	up
ENSBTAG00000018724	TMEM82	protein-coding	-0,900100501	0,001336869	0,013032653	down
ENSBTAG00000005812	TP73	protein-coding	-0,682734746	0,001351314	0,01313767	down
ENSBTAG00000001178	NA	NA	-0,659262517	0,001366848	0,013270666	down
ENSBTAG00000021144	PSTPIP1	protein-coding	-0,570044389	0,001373887	0,013314633	down
ENSBTAG00000014328	MGC138914	protein-coding	-0,625317081	0,001378503	0,013347606	down
ENSBTAG00000051330	WC-7	protein-coding	-1,15249335	0,001385483	0,013389845	down
ENSBTAG00000008464	ABC89	protein-coding	0,746643108	0,001395297	0,013464662	up
ENSBTAG00000000144	LOC100335205	protein-coding	-0,615925791	0,001456695	0,013887921	down
ENSBTAG00000001094	MTUS2	protein-coding	0,719128205	0,001457576	0,013887921	up
ENSBTAG00000007101	F3	protein-coding	-0,980505682	0,001474288	0,013991072	down
ENSBTAG00000021313	RUNDC3B	protein-coding	-0,691692406	0,001511518	0,014271909	down
ENSBTAG00000002947	LY9	protein-coding	-0,56666201	0,001527868	0,014366176	down
ENSBTAG00000031814	SDS	protein-coding	0,64022676	0,001542459	0,014470957	up
ENSBTAG00000008057	PARVG	protein-coding	-0,654802851	0,001544752	0,014473209	down
ENSBTAG00000044087	NA	NA	0,610973872	0,001545319	0,014473209	up
ENSBTAG00000006800	FGF6	protein-coding	1,011250919	0,001590482	0,014818107	up
ENSBTAG00000005857	SLC6A1	protein-coding	0,65316213	0,001597119	0,014852134	up
ENSBTAG00000043951	IMPA2	protein-coding	-0,609641839	0,001623712	0,015055157	down
ENSBTAG00000049266	NA	NA	-0,609135548	0,001625548	0,015055157	down
ENSBTAG00000051359	NA	NA	0,86930878	0,00162639	0,015055157	up

ENSBTAG00000048660	<i>C19H17orf113</i>	protein-coding	-0,855376032	0,001671812	0,015371847	down
ENSBTAG00000012695	<i>LCK</i>	protein-coding	-0,516544969	0,001722966	0,01578577	down
ENSBTAG00000017370	<i>ARFGEF3</i>	protein-coding	0,522144208	0,001751311	0,015984068	up
ENSBTAG00000020854	<i>BCL6B</i>	protein-coding	0,502164136	0,001768073	0,016085752	up
ENSBTAG00000008827	<i>SPOCK2</i>	protein-coding	-0,906160378	0,001772146	0,01610234	down
ENSBTAG00000019686	<i>NCKAP1L</i>	protein-coding	-0,594141106	0,001804975	0,016307444	down
ENSBTAG00000018235	<i>SLC45A2</i>	protein-coding	0,707237994	0,001807054	0,016315927	up
ENSBTAG00000004206	<i>LRRC55</i>	protein-coding	0,852730016	0,001832035	0,016468754	up
ENSBTAG00000050193	<i>NA</i>	NA	-1,041272392	0,00186938	0,016699561	down
ENSBTAG00000031214	<i>LOC618409</i>	protein-coding	-0,561217356	0,001880253	0,016755228	down
ENSBTAG00000009381	<i>LCP2</i>	protein-coding	-0,56736198	0,001880295	0,016755228	down
ENSBTAG00000039722	<i>LOC782061</i>	protein-coding	0,966477074	0,001901278	0,016910622	up
ENSBTAG00000015649	<i>TMEM156</i>	protein-coding	-0,581817536	0,001924341	0,017062728	down
ENSBTAG00000009405	<i>TRPC4</i>	protein-coding	-0,590794568	0,0019389	0,017159921	down
ENSBTAG00000010408	<i>IKBKE</i>	protein-coding	-0,751906259	0,001958234	0,017298939	down
ENSBTAG00000052744	<i>C18H16orf74</i>	protein-coding	0,610471806	0,001967883	0,017352046	up
ENSBTAG00000011120	<i>NA</i>	NA	0,592983994	0,001969676	0,017357163	up
ENSBTAG00000013918	<i>ADGRL3</i>	protein-coding	0,679398553	0,001999671	0,017578185	up
ENSBTAG00000006963	<i>RPL12</i>	protein-coding	-0,675841171	0,002057716	0,018010992	down
ENSBTAG00000004727	<i>PAQR4</i>	protein-coding	0,5087773	0,002065515	0,018055138	up
ENSBTAG00000016444	<i>RETREG1</i>	protein-coding	0,693842131	0,002079166	0,018143263	up
ENSBTAG00000001235	<i>CD200R1L</i>	protein-coding	-0,878846689	0,002128569	0,018450602	down
ENSBTAG00000030340	<i>IFFO2</i>	protein-coding	0,510326826	0,002196074	0,018909759	up
ENSBTAG00000053361	<i>KLHL30</i>	protein-coding	-0,644951372	0,002217504	0,019059877	down
ENSBTAG00000019137	<i>SCN7A</i>	protein-coding	-0,986684552	0,002256194	0,019288166	down
ENSBTAG00000007397	<i>FOLH1B</i>	protein-coding	0,525042629	0,002271518	0,019396001	up
ENSBTAG00000013191	<i>AGRN</i>	protein-coding	0,512493714	0,002288889	0,019509405	up
ENSBTAG00000050237	<i>NA</i>	NA	-0,766681531	0,002299435	0,01957794	down
ENSBTAG00000002009	<i>NA</i>	NA	-0,766682805	0,002299666	0,01957794	down
ENSBTAG00000020590	<i>FZD2</i>	protein-coding	0,535479095	0,002342617	0,019860892	up
ENSBTAG00000027397	<i>PPP1R3D</i>	protein-coding	0,625784593	0,002368617	0,020010201	up
ENSBTAG00000051340	<i>NA</i>	NA	-0,978200599	0,002398125	0,020148319	down
ENSBTAG00000007325	<i>TPSB2</i>	protein-coding	-0,814263355	0,002403269	0,020148319	down
ENSBTAG00000014470	<i>ALDH1L1</i>	protein-coding	0,911126317	0,002412581	0,020190905	up
ENSBTAG00000045854	<i>LOC100852077</i>	protein-coding	-0,851989208	0,002445214	0,020380583	down
ENSBTAG00000016998	<i>ARL11</i>	protein-coding	0,653672155	0,002486718	0,020582662	up
ENSBTAG00000052038	<i>NA</i>	NA	-1,14153032	0,002517369	0,020740395	down
ENSBTAG00000034609	<i>NA</i>	NA	-0,741494864	0,002555151	0,02095517	down
ENSBTAG00000013439	<i>ARHGEF26</i>	protein-coding	0,731578389	0,002557551	0,020962836	up
ENSBTAG00000020198	<i>METRN</i>	protein-coding	0,638605892	0,002567581	0,021008947	up
ENSBTAG00000053836	<i>CCDC71L</i>	protein-coding	-0,925541119	0,002570931	0,021013584	down
ENSBTAG00000045767	<i>LAT2</i>	protein-coding	-0,531644233	0,002600827	0,021182725	down
ENSBTAG00000004908	<i>CHRNE</i>	protein-coding	0,611816094	0,00260214	0,021182725	up
ENSBTAG00000000868	<i>ZFP1</i>	protein-coding	-0,585993589	0,002613872	0,021266134	down
ENSBTAG00000047743	<i>KCNIP4</i>	protein-coding	-1,932533945	0,002617237	0,02128141	down
ENSBTAG00000020028	<i>NA</i>	NA	0,553182066	0,002624834	0,02130686	up
ENSBTAG00000055017	<i>SCIMP</i>	protein-coding	-0,822712144	0,002664177	0,021540702	down
ENSBTAG00000050510	<i>LOC112442215</i>	protein-coding	-0,874745593	0,002825181	0,022474244	down
ENSBTAG00000014897	<i>UNC5A</i>	protein-coding	0,638853603	0,002887032	0,022877252	up
ENSBTAG00000015290	<i>BAIAP2L2</i>	protein-coding	-0,630046248	0,002893262	0,022889507	down
ENSBTAG00000026437	<i>NA</i>	NA	1,274235377	0,003008947	0,023556696	up
ENSBTAG00000008807	<i>FBXL22</i>	protein-coding	0,545325373	0,003008989	0,023556696	up
ENSBTAG00000050462	<i>NA</i>	NA	0,63687306	0,003032597	0,023689684	up
ENSBTAG00000012444	<i>ADAM12</i>	protein-coding	0,779536308	0,003041187	0,023743821	up
ENSBTAG00000046257	<i>GIMAP4</i>	protein-coding	-0,626959863	0,003061108	0,023849395	down
ENSBTAG00000008441	<i>SOCS3</i>	protein-coding	-0,590448402	0,003112396	0,024128656	down
ENSBTAG00000021835	<i>PRICKLE2</i>	protein-coding	0,548629295	0,003147195	0,024319386	up
ENSBTAG00000054842	<i>MIR2285AH</i>	ncRNA	0,597760091	0,003158282	0,024347586	up
ENSBTAG00000014090	<i>ARID5A</i>	protein-coding	-0,535788253	0,003170036	0,024382318	down
ENSBTAG00000018366	<i>SLC15A3</i>	protein-coding	-0,528054644	0,003219523	0,024626309	down
ENSBTAG00000011602	<i>RASAL3</i>	protein-coding	-0,598428611	0,003253143	0,024750519	down
ENSBTAG00000053478	<i>LOC112449602</i>	protein-coding	-0,524752566	0,003323384	0,025137918	down
ENSBTAG00000051967	<i>LOC112443014</i>	ncRNA	0,858364319	0,003353798	0,025314452	up
ENSBTAG00000053974	<i>NA</i>	NA	0,543562649	0,003358964	0,025340078	up
ENSBTAG00000016520	<i>LOC786948</i>	protein-coding	-0,700127588	0,003401227	0,025497444	down

ENSBTAG00000021329	ZBTB3	protein-coding	0,64097296	0,003446537	0,025716054	up
ENSBTAG00000009489	CACNA2D2	protein-coding	0,620822237	0,003509319	0,026021695	up
ENSBTAG00000015991	CDH1	protein-coding	-0,949164195	0,00351957	0,026070687	down
ENSBTAG00000047531	ARHGAP4	protein-coding	-0,536218136	0,003548549	0,026203967	down
ENSBTAG00000013103	COL1A1	protein-coding	0,531490348	0,003566617	0,026294778	up
ENSBTAG000000051401	NA	NA	-0,510732052	0,003571569	0,026295351	down
ENSBTAG00000000243	HEBP2	protein-coding	0,769299978	0,003603585	0,026433063	up
ENSBTAG00000047225	BCL2L14	protein-coding	-0,904521657	0,003613149	0,026454158	down
ENSBTAG00000013736	PROM1	protein-coding	-0,801084225	0,003640065	0,026605193	down
ENSBTAG00000050953	LOC515828	protein-coding	-0,614111818	0,003656052	0,026653976	down
ENSBTAG00000020620	RGS2	protein-coding	-0,628296471	0,003662305	0,026672393	down
ENSBTAG00000018016	NUPR1	protein-coding	-0,640861825	0,00367935	0,026773346	down
ENSBTAG00000014051	ANGPT1	protein-coding	0,554026453	0,00384012	0,027699576	up
ENSBTAG00000002623	SAMSN1	protein-coding	-0,656595541	0,00384882	0,027730577	down
ENSBTAG00000011390	CHRND	protein-coding	-0,72991247	0,003850231	0,027730577	down
ENSBTAG00000003845	CSRNP1	protein-coding	-0,577284511	0,003931291	0,028149419	down
ENSBTAG00000027204	LOC100300510	protein-coding	-0,621223678	0,003951516	0,028275074	down
ENSBTAG00000049718	NA	NA	0,539540202	0,003957904	0,028292488	up
ENSBTAG00000051333	ARID5B	protein-coding	-0,71686222	0,003995158	0,028416854	down
ENSBTAG00000040590	NA	NA	0,556155228	0,004019179	0,02855932	up
ENSBTAG00000047078	NTF4	protein-coding	0,57089343	0,004094521	0,028950936	up
ENSBTAG00000053653	NA	NA	1,060370696	0,004117229	0,029032452	up
ENSBTAG00000017733	CA2	protein-coding	0,570905007	0,004118222	0,029032452	up
ENSBTAG00000015582	HMOX1	protein-coding	-0,636181226	0,004127368	0,029068291	down
ENSBTAG00000017411	AK5	protein-coding	-0,866304049	0,004182327	0,029426394	down
ENSBTAG00000050861	NA	NA	0,560253944	0,004250035	0,029740203	up
ENSBTAG00000006563	KLHL40	protein-coding	-0,54250597	0,004388993	0,030510657	down
ENSBTAG00000050417	LOC788334	protein-coding	0,517106054	0,004393723	0,030510657	up
ENSBTAG00000055197	NA	NA	-0,585088516	0,00439449	0,030510657	down
ENSBTAG00000049469	MIR12003	ncRNA	-0,864353864	0,004402912	0,030510657	down
ENSBTAG00000010866	BMPER	protein-coding	0,757938933	0,004405419	0,030510657	up
ENSBTAG00000012896	METTL7B	protein-coding	-0,952887412	0,004425433	0,030551071	down
ENSBTAG00000007921	DAPP1	protein-coding	-0,538960465	0,004440187	0,030625168	down
ENSBTAG000000039686	NA	NA	0,667691884	0,004547939	0,031216097	up
ENSBTAG00000019076	PAK6	protein-coding	0,820642215	0,004631675	0,031654202	up
ENSBTAG00000013125	PLAUR	protein-coding	-0,794559423	0,004817971	0,032615885	down
ENSBTAG00000006762	SH3RF2	protein-coding	-0,598599732	0,004832244	0,032661568	down
ENSBTAG00000043580	NA	NA	0,680165587	0,004844003	0,032699304	up
ENSBTAG00000001801	SYT4	protein-coding	-0,558429133	0,004937702	0,033183179	down
ENSBTAG00000031809	DENND1C	protein-coding	-0,541566199	0,004959928	0,033293401	down
ENSBTAG00000039922	ARAP2	protein-coding	-0,561207333	0,004966892	0,033308899	down
ENSBTAG00000022449	SCD5	protein-coding	0,581697781	0,005001597	0,033463235	up
ENSBTAG00000008004	NCF2	protein-coding	-0,705132865	0,005029431	0,033570982	down
ENSBTAG00000027563	ALX4	protein-coding	0,660252814	0,00505732	0,033650822	up
ENSBTAG00000009656	BOLA-DQA2	protein-coding	-0,554490521	0,005066011	0,033650822	down
ENSBTAG00000007253	TSPAN33	protein-coding	-0,504557503	0,005072896	0,033672641	down
ENSBTAG00000017020	S100G	protein-coding	-1,519065397	0,005091428	0,033748689	down
ENSBTAG000000002647	RGS10	protein-coding	-0,545452225	0,005198166	0,034297354	down
ENSBTAG00000046900	GGT1	protein-coding	0,545457313	0,005230457	0,03442783	up
ENSBTAG00000012526	APBB1IP	protein-coding	-0,507551668	0,005232376	0,03442783	down
ENSBTAG00000044073	CD248	protein-coding	0,506222989	0,005273211	0,034609505	up
ENSBTAG00000021272	ABCG1	protein-coding	-0,703060295	0,005406739	0,035218864	down
ENSBTAG00000001034	IL18R1	protein-coding	-0,850523784	0,005477744	0,03553581	down
ENSBTAG00000014536	SFXN1	protein-coding	-0,70243733	0,005490549	0,035602741	down
ENSBTAG00000008597	SLC45A4	protein-coding	0,562639322	0,005773139	0,037032451	up
ENSBTAG00000019960	TM4SF18	protein-coding	0,685423489	0,005806212	0,037118528	up
ENSBTAG00000020745	HIVEP3	protein-coding	0,597220447	0,005867707	0,037404348	up
ENSBTAG00000012349	LAX1	protein-coding	-0,629454001	0,005928703	0,037654155	down
ENSBTAG00000009907	MAPK4	protein-coding	0,575161218	0,005992927	0,037960426	up
ENSBTAG00000010732	MMP23	protein-coding	-0,603822649	0,006002686	0,037960426	down
ENSBTAG00000020147	BBS1	protein-coding	0,506456416	0,006066651	0,038179349	up
ENSBTAG00000005078	UCHL1	protein-coding	-0,858160421	0,006082728	0,038240011	down
ENSBTAG00000039462	PCLAF	protein-coding	-0,546202529	0,006170647	0,038663802	down
ENSBTAG00000008897	BIN2	protein-coding	-0,533158114	0,00618917	0,038762891	down
ENSBTAG00000030322	NA	NA	0,733767834	0,00622198	0,038900288	up

ENSBTAG00000051251	NA	NA	0,667903885	0,006271296	0,039097318	up
ENSBTAG00000047426	<i>LYPD6</i>	protein-coding	0,573174006	0,006274997	0,039097318	up
ENSBTAG00000004175	<i>HPD</i>	protein-coding	0,789750106	0,006382596	0,039627477	up
ENSBTAG00000047664	<i>GNAZ</i>	protein-coding	0,622114216	0,006404401	0,039692943	up
ENSBTAG000000002471	<i>CHL1</i>	protein-coding	-0,891787961	0,006440752	0,039867473	down
ENSBTAG000000007809	<i>PPP1R36</i>	protein-coding	0,539833841	0,0064816	0,040078978	up
ENSBTAG000000014912	<i>FMOD</i>	protein-coding	0,538432956	0,00655767	0,040354854	up
ENSBTAG000000026080	<i>LAIR1</i>	protein-coding	-0,73863141	0,006563518	0,040354854	down
ENSBTAG000000008092	<i>RAB37</i>	protein-coding	-0,57549231	0,006564608	0,040354854	down
ENSBTAG000000000328	<i>TPPP2</i>	protein-coding	0,74556738	0,006652029	0,040752218	up
ENSBTAG000000016704	<i>SLC37A2</i>	protein-coding	-0,577486233	0,006658362	0,040756124	down
ENSBTAG000000001562	<i>NFE2</i>	protein-coding	0,690115119	0,006725777	0,041072806	up
ENSBTAG000000003696	<i>BICDL1</i>	protein-coding	-0,506519185	0,006749889	0,041105386	down
ENSBTAG000000012834	<i>ARSI</i>	protein-coding	0,612431526	0,006870639	0,04166149	up
ENSBTAG000000012837	NA	NA	0,539482393	0,006919125	0,041815709	up
ENSBTAG000000051798	NA	NA	-0,536625647	0,006977273	0,042004186	down
ENSBTAG000000005419	<i>AOC1</i>	protein-coding	-0,761589754	0,00699881	0,042031038	down
ENSBTAG000000013334	NA	NA	0,637532056	0,007016182	0,042117693	up
ENSBTAG000000044071	<i>HRH2</i>	protein-coding	0,80338848	0,007043256	0,042227076	up
ENSBTAG000000005628	<i>CD52</i>	protein-coding	-0,504397426	0,007087973	0,042353228	down
ENSBTAG000000053581	<i>SUCNR1</i>	protein-coding	-0,579276642	0,007101168	0,042371357	down
ENSBTAG000000008380	<i>ITGA11</i>	protein-coding	0,506296005	0,007133682	0,042524743	up
ENSBTAG000000003920	<i>TGM1</i>	protein-coding	-0,555865157	0,007137477	0,042524743	down
ENSBTAG000000054461	<i>ITGAX</i>	protein-coding	-0,641102455	0,007161656	0,042609154	down
ENSBTAG000000017514	<i>CCND1</i>	protein-coding	0,555637266	0,007233724	0,042866178	up
ENSBTAG000000052033	NA	NA	0,526702498	0,007331116	0,043335644	up
ENSBTAG000000005244	<i>RASL11A</i>	protein-coding	-0,610041053	0,007782886	0,045121906	down
ENSBTAG000000002258	<i>APOA1</i>	protein-coding	-0,740284512	0,007818297	0,045261993	down
ENSBTAG000000001900	NA	NA	0,729867665	0,007896159	0,045620479	up
ENSBTAG000000030940	<i>GIMAP7</i>	protein-coding	-0,524571867	0,008212748	0,046900496	down
ENSBTAG000000035064	<i>C4H7orf57</i>	protein-coding	0,688670017	0,008274236	0,047176329	up
ENSBTAG000000049851	<i>PMAIP1</i>	protein-coding	-0,72609995	0,008328557	0,047448242	down
ENSBTAG000000044195	<i>SDK2</i>	protein-coding	0,549253876	0,008334445	0,047452047	up
ENSBTAG000000049393	NA	NA	-0,899096782	0,008347868	0,047483594	down
ENSBTAG000000004952	<i>MFSD4A</i>	protein-coding	0,585851782	0,008357988	0,047483594	up
ENSBTAG000000052931	NA	NA	-0,944550442	0,008536006	0,048207885	down
ENSBTAG000000007932	<i>HCK</i>	protein-coding	-0,564136747	0,008556521	0,048285637	down
ENSBTAG000000006515	<i>ESPN</i>	protein-coding	-0,545726794	0,008586238	0,048377027	down
ENSBTAG000000013160	<i>GFRA4</i>	protein-coding	-0,641099662	0,008667275	0,048642106	down
ENSBTAG000000050371	NA	NA	0,563619283	0,008734272	0,048875178	up

NA: Not Annotated

Table S3. Enriched KEGG pathways for up-regulated genes in group 2 at weaning

Category	Term	Count	P value	Genes
KEGG_PATHWAY	bta05410:Hypertrophic cardiomyopathy	11	3.85E-5	<i>CACNG7, PRKAB2, PRKAA2, TPM3, MYL2, MYL3, ITGA11, DAG1, CACNA2D2, TNNI3, MYH7</i>
KEGG_PATHWAY	bta04261:Adrenergic signaling in cardiomyocytes	13	1.37E-5	<i>TPM3, CAMK2A, ATP1A4, CACNA2D2, ATP2B2, PRKCA, CACNG7, MYL2, MYL3, TNNI3, CALM3, SCN4B, MYH7</i>
KEGG_PATHWAY	bta05200:Pathways in cancer	27	2.01E-5	<i>FLT4, LAMA3, CAMK2A, CXCR4, CBL, RASGRP1, RASGRP3, DLL4, FGF6, MECOM, CCND1, GNA12, E2F3, RXRG, NQO1, FZD2, SMAD3, TPM3, PRKCA, ESR1, AR, HEYL, COL4A2, CCNE1, KIT, BIRC5, CALM3</i>
KEGG_PATHWAY	bta03320:PPAR signaling pathway	9	5.75E-4	<i>FADS2, FABP3, SLC27A1, SCD, SCD5, AQP7, DBI, PPARA, RXRG</i>
KEGG_PATHWAY	bta04512:ECM-receptor interaction	9	8.47E-4	<i>COL1A1, COL4A2, LAMA3, ITGA11, DAG1, NPNT, AGRN, FREM1, FREM2</i>
KEGG_PATHWAY	bta00100:Steroid biosynthesis	5	9.08E-4	<i>SQLE, EBP, CYP51A1, DHCR24, LSS</i>
KEGG_PATHWAY	bta04260:Cardiac muscle contraction	9	0.00113	<i>CACNG7, TPM3, MYL2, MYL3, ATP1A4, CASQ2, CACNA2D2, TNNI3, MYH7</i>
KEGG_PATHWAY	bta05414:Dilated cardiomyopathy	9	0.00169	<i>CACNG7, TPM3, MYL2, MYL3, ITGA11, DAG1, CACNA2D2, TNNI3, MYH7</i>
KEGG_PATHWAY	bta04971:Gastric acid secretion	7	0.00712	<i>CA2, HRH2, CAMK2A, ATP1A4, CALM3, PRKCA, KCNJ2</i>
KEGG_PATHWAY	bta04921:Oxytocin signaling pathway	10	0.00758	<i>CACNG7, PRKAB2, PRKAA2, CCND1, CAMK2A, CACNA2D2, CALM3, PRKCA, MYL6B, KCNJ2</i>
KEGG_PATHWAY	bta04964:Proximal tubule bicarbonate reclamation	4	0.01260	<i>CA2, ATP1A4, SLC38A3, AQP1</i>
KEGG_PATHWAY	bta04360:Axon guidance	10	0.01964	<i>ENAH, EFNB2, SEMA6B, SEMA6C, UNC5A, CAMK2A, PAK6, PLXNA1, CXCR4, PRKCA</i>
KEGG_PATHWAY	bta05224:Breast cancer	9	0.01983	<i>DLL4, FGF6, HEYL, FZD2, CCND1, FLT4, KIT, E2F3, ESR1</i>
KEGG_PATHWAY	bta04020:Calcium signaling pathway	12	0.02686	<i>FGF6, HRH2, FLT4, CAMK2A, CASQ2, PPIF, CXCR4, ATP2B2, CALM3, PRKCA, CASQ1, TPCN1</i>
KEGG_PATHWAY	bta01040:Biosynthesis of unsaturated fatty acids	4	0.02915	<i>FADS2, SCD, SCD5, FADS1</i>
KEGG_PATHWAY	bta04010:MAPK signaling pathway	13	0.03196	<i>ANGPT1, SRF, FLT4, CACNA2D2, PRKCA, RASGRP1, RASGRP3, NTF4, CACNG7, FGF6, MECOM, KIT, GNA12</i>
KEGG_PATHWAY	bta04510:Focal adhesion	10	0.03761	<i>COL1A1, CCND1, COL4A2, MYL2, FLT4, LAMA3, ITGA11, PAK6, PRKCA, PARVB</i>
KEGG_PATHWAY	bta04371:Apelin signaling pathway	8	0.03974	<i>PRKAB2, SMAD3, PRKAA2, CCND1, MYL2, MYL3, APLNR, CALM3</i>
KEGG_PATHWAY	bta01212:Fatty acid metabolism	5	0.04109	<i>FADS2, SCD, FASN, SCD5, FADS1</i>
KEGG_PATHWAY	bta00760:Nicotinate and nicotinamide metabolism	4	0.04652	<i>NNT, NMRK2, NT5C1A, QPRT</i>
KEGG_PATHWAY	bta04014:Ras signaling pathway	11	0.04773	<i>NTF4, FGF6, ANGPT1, FLT4, KIT, REL, PAK6, CALM3, PRKCA, RASGRP1, RASGRP3</i>

Table S4. Enriched biological processes (GO Terms) for up-regulated genes in group 2 at weaning

Category	Term	Count	P value	Genes
GOTERM_BP_DIRECT	GO:0006695~cholesterol biosynthetic process	5	0,00231	<i>EBP, INSIG1, CYP51A1, DHCR24, LSS</i>
GOTERM_BP_DIRECT	GO:0045214~sarcomere organization	5	0,00265	<i>TNNT1, SRF, CASQ1, MYOZ2, MYPN</i>
GOTERM_BP_DIRECT	GO:0006636~unsaturated fatty acid biosynthetic process	4	0,00349	<i>FADS2, SCD, SCD5, FADS1</i>
GOTERM_BP_DIRECT	GO:0055010~ventricular cardiac muscle tissue morphogenesis	4	0,00506	<i>MYL2, MYL3, PROX1, MYH7</i>
GOTERM_BP_DIRECT	GO:0030240~skeletal muscle thin filament assembly	3	0,00627	<i>ACTA1, PROX1, LMOD3</i>
GOTERM_BP_DIRECT	GO:0043069~negative regulation of programmed cell death	3	0,00866	<i>TIGAR, MECOM, KIT</i>
GOTERM_BP_DIRECT	GO:0007507~heart development	8	0,01043	<i>ACVR1, PDLIM1, POPDC2, GJA1, MYL2, APLNR, SOX4, FREM2</i>
GOTERM_BP_DIRECT	GO:0010628~positive regulation of gene expression	14	0,01052	<i>RARG, SMAD3, ANGPT1, SCX, DLL4, AR, FGF6, ACTA1, GJA1, CUX2, DNAJA4, SOX8, ADTRP, LDLR</i>
GOTERM_BP_DIRECT	GO:0006936~muscle contraction	5	0,01153	<i>MYH2, MYBPC1, TNNT1, TPM3, LMOD3</i>
GOTERM_BP_DIRECT	GO:0001947~heart looping	5	0,01817	<i>GJA1, SMAD3, SRF, APLNR, MIB1</i>
GOTERM_BP_DIRECT	GO:0016126~sterol biosynthetic process	3	0,02145	<i>SQLE, EBP, INSIG1</i>
GOTERM_BP_DIRECT	GO:0043951~negative regulation of cAMP-mediated signaling	3	0,02539	<i>RNF157, PDE11A, APLNR</i>
GOTERM_BP_DIRECT	GO:0007512~adult heart development	3	0,02539	<i>GJA1, APLNR, MYH7</i>
GOTERM_BP_DIRECT	GO:0061351~neural precursor cell proliferation	3	0,02539	<i>BBS1, NDUFS2, DBN1</i>
GOTERM_BP_DIRECT	GO:0002026~regulation of the force of heart contraction	3	0,02539	<i>MYL2, MYL3, MYH7</i>
GOTERM_BP_DIRECT	GO:0007219~Notch signaling pathway	6	0,03078	<i>DLL4, HEYL, GOT1, NRARP, GRIP2, MIB1</i>
GOTERM_BP_DIRECT	GO:0022008~neurogenesis	4	0,03170	<i>NAV3, NDUFS2, CXCR4, DCHS1</i>
GOTERM_BP_DIRECT	GO:0032869~cellular response to insulin stimulus	5	0,03188	<i>GOT1, INSIG1, INHBB, LPIN2, HDAC9</i>
GOTERM_BP_DIRECT	GO:0001894~tissue homeostasis	3	0,03406	<i>TP53INP2, COL11A2, SCX</i>
GOTERM_BP_DIRECT	GO:0007154~cell communication	3	0,03406	<i>GJA1, FREM1, FREM2</i>
GOTERM_BP_DIRECT	GO:0060749~mammary gland alveolus development	3	0,03406	<i>AR, CCND1, ESR1</i>
GOTERM_BP_DIRECT	GO:0001701~in utero embryonic development	9	0,03408	<i>ACVR1, AR, GJA1, SMAD3, GNA12, SOX8, DBN1, TANC2, MIB1</i>
GOTERM_BP_DIRECT	GO:0001568~blood vessel development	4	0,03424	<i>COL1A1, BMPER, APLNR, MIB1</i>
GOTERM_BP_DIRECT	GO:0001649~osteoblast differentiation	5	0,03557	<i>COL1A1, GJA1, IGFBP5, TP53INP2, SOX8</i>
GOTERM_BP_DIRECT	GO:0006730~one-carbon metabolic process	4	0,03689	<i>ALDH1L1, CA3, CA2, CA14</i>
GOTERM_BP_DIRECT	GO:0000082~G1/S transition of mitotic cell cycle	4	0,03963	<i>CCND1, CCNE1, E2F3, CACUL1</i>

GOTERM_BP_DIRECT	GO:0007188~adenylate cyclase-modulating G-protein coupled receptor signaling pathway	4	0,03963	<i>GNAZ, GNAT2, GNA12, PTH2R</i>
GOTERM_BP_DIRECT	GO:0090263~positive regulation of canonical Wnt signaling pathway	6	0,04145	<i>COL1A1, FAM53B, NRARP, LYPD6, DKK2, SOX4</i>
GOTERM_BP_DIRECT	GO:0002042~cell migration involved in sprouting angiogenesis	3	0,04369	<i>EFNB2, SRF, ADTRP</i>
GOTERM_BP_DIRECT	GO:0002009~morphogenesis of an epithelium	3	0,04369	<i>DAG1, SOX8, FREM2</i>
GOTERM_BP_DIRECT	GO:0002027~regulation of heart rate	3	0,04369	<i>CASQ2, CALM3, MYH7</i>
GOTERM_BP_DIRECT	GO:0035914~skeletal muscle cell differentiation	4	0,04542	<i>HEYL, SCX, SOX8, HIVEP3</i>
GOTERM_BP_DIRECT	GO:0051965~positive regulation of synapse assembly	4	0,04846	<i>CUX2, CLSTN2, AMIGO2, LRRN1</i>
GOTERM_BP_DIRECT	GO:0003009~skeletal muscle contraction	3	0,04884	<i>MYH3, TNNT1, MYH7</i>

Table S5. Enriched KEGG pathways for down-regulated genes in group 2 at weaning

Category	Term	Count	P value	Genes
KEGG_PATHWAY	bta04610:Complement and coagulation cascades	17	2.84E-10	<i>CFD, C1QB, C1QA, C5AR1, ITGB2, SERPINE1, PLAUR, F13A1, F3, C2, C3, C7, ITGAX, C3AR1, VSIG4, CFB, C1QC</i>
KEGG_PATHWAY	bta05150:Staphylococcus aureus infection	18	3.30E-10	<i>CFD, C1QB, C1QA, C5AR1, PTAFR, ITGB2, BOLA-DQA2, ITGAL, C2, C3, FCGR3A, FCGR2A, LOC100300510, C3AR1, FCGR1A, BOLA-DMB, CFB, C1QC</i>
KEGG_PATHWAY	bta05202:Transcriptional misregulation in cancer	20	1.68E-7	<i>CD86, CSF1R, CEBPB, CDKN1A, SPI1, MAX, GADD45A, FLT3, ZBTB16, FOXO1, GADD45G, RUNX1, HOXA9, LOC100300510, MYC, IL2RB, NUPR1, CD14, PROM1, FCGR1A</i>
KEGG_PATHWAY	bta04936:Alcoholic liver disease	17	4.61E-7	<i>C1QB, C1QA, CPT1A, C5AR1, CXCL3, CPT1B, MAPK12, FOXO1, C2, C3, NFKBIA, C3AR1, MLYCD, CD14, LPIN1, IKBKE, C1QC</i>
KEGG_PATHWAY	bta05140:Leishmaniasis	11	1.09E-5	<i>C3, NFKBIA, FCGR3A, FCGR2A, NCF2, ITGB2, BOLA-DQA2, PTGS2, FCGR1A, BOLA-DMB, MAPK12</i>
KEGG_PATHWAY	bta04659:Th17 cell differentiation	12	7.09E-5	<i>NFKBIA, LOC618409, LOC100300510, LCK, IL2RB, IL21R, BOLA-DQA2, IL1RAP, BOLA-DMB, LAT, MAPK12, RUNX1</i>
KEGG_PATHWAY	bta05221:Acute myeloid leukemia	9	1.57E-4	<i>CSF1R, SPI1, FLT3, MYC, ZBTB16, EIF4EBP1, CD14, FCGR1A, RUNX1</i>
KEGG_PATHWAY	bta05152:Tuberculosis	15	2.70E-4	<i>CEBPB, FCER1G, IL10RA, ITGB2, BOLA-DQA2, MAPK12, C3, FCGR3A, FCGR2A, MRC1, ITGAX, BCL2, CD14, FCGR1A, BOLA-DMB</i>
KEGG_PATHWAY	bta04380:Osteoclast differentiation	12	3.34E-4	<i>NFKBIA, SOCS3, CSF1R, FCGR3A, FCGR2A, SPI1, NCF2, LCK, LCP2, FCGR1A, MAPK12, FOSL2</i>
KEGG_PATHWAY	bta05133:Pertussis	9	4.09E-4	<i>C3, C1QB, C1QA, ITGB2, IRF8, CD14, MAPK12, C1QC, C2</i>
KEGG_PATHWAY	bta04064:NF-kappa B signaling pathway	10	0,00109	<i>NFKBIA, GADD45A, LOC100300510, LCK, BCL2, CD14, PTGS2, CXCL3, LAT, GADD45G</i>
KEGG_PATHWAY	bta05222:Small cell lung cancer	9	0,00142	<i>NFKBIA, CDKN1A, GADD45A, MAX, MYC, BCL2, PTGS2, FHIT, GADD45G</i>
KEGG_PATHWAY	bta05142:Chagas disease	10	0,00199	<i>C3, C1QB, NFKBIA, C1QA, GNA15, LOC100300510, SERPINE1, PLCB2, MAPK12, C1QC</i>
KEGG_PATHWAY	bta04145:Phagosome	12	0,00207	<i>C3, MSR1, FCGR3A, FCGR2A, NCF2, ITGB2, MRC1, BOLA-DQA2, CD14, FCGR1A, RILP, BOLA-DMB</i>
KEGG_PATHWAY	bta05171:Coronavirus disease - COVID-19	16	0,00212	<i>CFD, C1QB, C1QA, RPL12, C5AR1, F13A1, MAPK12, C2, C3, NFKBIA, CXCL10, C7, C3AR1, IKBKE, CFB, C1QC</i>
KEGG_PATHWAY	bta05216:Thyroid cancer	6	0,00212	<i>RET, CDKN1A, GADD45A, CDH1, MYC, GADD45G</i>
KEGG_PATHWAY	bta04115:p53 signaling pathway	8	0,00239	<i>CDKN1A, GADD45A, SESN1, SERPINE1, BCL2, PMAIP1, TP73, GADD45G</i>
KEGG_PATHWAY	bta05200:Pathways in cancer	24	0,00337	<i>ALK, RET, CSF1R, GSTM3, CDKN1A, SPI1, MAX, GADD45A, FLT3, ZBTB16, PTGER3, PTGS2, AGT, FOXO1, GADD45G, RUNX1, NFKBIA, CDH1, MYC, IL2RB, BCL2, HMOX1, PMAIP1, PLCB2</i>
KEGG_PATHWAY	bta04640:Hematopoietic cell lineage	9	0,00382	<i>CD2, CSF1R, CD8A, FLT3, CD7, BOLA-DQA2, CD14, FCGR1A, BOLA-DMB</i>
KEGG_PATHWAY	bta04621:NOD-like receptor signaling pathway	12	0,00535	<i>GSDMD, LOC781710, NFKBIA, GBP5, PSTPIP1, NAMPT, BCL2, TXNIP, CXCL3, IKBKE, PLCB2, MAPK12</i>
KEGG_PATHWAY	bta04061:Viral protein interaction with cytokine and cytokine receptor	8	0,00623	<i>CXCL10, CSF1R, CXCL9, CCL22, IL10RA, IL2RB, CXCL3, IL18R1</i>

KEGG_PATHWAY	bta05322:Systemic lupus erythematosus	12	0,00728	<i>C3, C1QB, CD86, C1QA, FCGR3A, C7, LOC100300510, BOLA-DQA2, FCGR1A, BOLA-DMB, C1QC, C2</i>
KEGG_PATHWAY	bta04658:Th1 and Th2 cell differentiation	8	0,00778	<i>NFKBIA, LOC100300510, LCK, IL2RB, BOLA-DQA2, BOLA-DMB, LAT, MAPK12</i>
KEGG_PATHWAY	bta05169:Epstein-Barr virus infection	13	0,00813	<i>CDKN1A, GADD45A, BOLA-DQA2, ITGAL, MAPK12, GADD45G, NFKBIA, CXCL10, LOC100300510, MYC, BCL2, IKBKE, BOLA-DMB</i>
KEGG_PATHWAY	bta04514:Cell adhesion molecules	10	0,01304	<i>CD2, SPN, CD86, CD8A, LOC100300510, CDH1, ITGB2, BOLA-DQA2, ITGAL, BOLA-DMB</i>
KEGG_PATHWAY	bta05235:PD-L1 expression and PD-1 checkpoint pathway in cancer	7	0,02123	<i>NFKBIA, ALK, BATF3, LOC100300510, LCK, LAT, MAPK12</i>
KEGG_PATHWAY	bta04657:IL-17 signaling pathway	7	0,02225	<i>NFKBIA, CXCL10, CEBPB, PTGS2, CXCL3, IKBKE, MAPK12</i>
KEGG_PATHWAY	bta04152:AMPK signaling pathway	8	0,02346	<i>PFKFB4, CPT1A, PFKFB3, EIF4EBP1, MLYCD, CPT1B, FBP1, FOXO1</i>
KEGG_PATHWAY	bta04668:TNF signaling pathway	8	0,02439	<i>NFKBIA, SOCS3, CXCL10, CEBPB, PTGS2, CXCL3, IL18R1, MAPK12</i>
KEGG_PATHWAY	bta00330:Arginine and proline metabolism	5	0,02592	<i>AOC1, P4HA3, CKB, SAT1, AGMAT</i>
KEGG_PATHWAY	bta05223:Non-small cell lung cancer	6	0,02631	<i>RET, ALK, CDKN1A, GADD45A, FHIT, GADD45G</i>
KEGG_PATHWAY	bta04650:Natural killer cell mediated cytotoxicity	9	0,02869	<i>FCGR3A, LOC100336869, FCER1G, LCK, ITGB2, CD48, LCP2, ITGAL, LAT</i>
KEGG_PATHWAY	bta04015:Rap1 signaling pathway	11	0,02883	<i>APBB1IP, CSF1R, LOC100300510, CDH1, ITGB2, LCP2, ITGAL, PLCB2, LAT, MAPK12, RAPGEF4</i>
KEGG_PATHWAY	bta05167:Kaposi sarcoma-associated herpesvirus infection	11	0,03097	<i>C3, NFKBIA, CD86, HCK, CDKN1A, MYC, CD200R1L, PTGS2, CXCL3, IKBKE, MAPK12</i>
KEGG_PATHWAY	bta04933:AGE-RAGE signaling pathway in diabetic complications	7	0,03152	<i>SERPINE1, BCL2, F3, PLCB2, AGT, MAPK12, FOXO1</i>
KEGG_PATHWAY	bta04922:Glucagon signaling pathway	7	0,03152	<i>CPT1A, GCGR, SIK1, CPT1B, FBP1, PLCB2, FOXO1</i>
KEGG_PATHWAY	bta05220:Chronic myeloid leukemia	6	0,03217	<i>NFKBIA, CDKN1A, GADD45A, MYC, RUNX1, GADD45G</i>
KEGG_PATHWAY	bta05416:Viral myocarditis	6	0,03376	<i>CD86, LOC100300510, ITGB2, BOLA-DQA2, ITGAL, BOLA-DMB</i>
KEGG_PATHWAY	bta05323:Rheumatoid arthritis	7	0,03556	<i>CD86, LOC100300510, ITGB2, BOLA-DQA2, ITGAL, CXCL3, BOLA-DMB</i>
KEGG_PATHWAY	bta04218:Cellular senescence	9	0,03695	<i>CDKN1A, LIN37, GADD45A, MYC, SERPINE1, EIF4EBP1, MAPK12, FOXO1, GADD45G</i>
KEGG_PATHWAY	bta04660:T cell receptor signaling pathway	7	0,03993	<i>NFKBIA, CD8A, LOC100300510, LCK, LCP2, LAT, MAPK12</i>
KEGG_PATHWAY	bta03320:PPAR signaling pathway	6	0,04427	<i>CPT1A, APOA1, ME3, ANGPTL4, CPT1B, PLIN5</i>
KEGG_PATHWAY	bta05213:Endometrial cancer	5	0,04670	<i>CDKN1A, GADD45A, CDH1, MYC, GADD45G</i>
KEGG_PATHWAY	bta05134:Legionellosis	5	0,04670	<i>C3, NFKBIA, ITGB2, CD14, CXCL3</i>
KEGG_PATHWAY	bta05166:Human T-cell leukemia virus 1 infection	11	0,04858	<i>NFKBIA, CDKN1A, SPI1, LOC100300510, LCK, MYC, ITGB2, IL2RB, BOLA-DQA2, ITGAL, BOLA-DMB</i>
KEGG_PATHWAY	bta05417:Lipid and atherosclerosis	11	0,04976	<i>NFKBIA, ABCA1, NCF2, BCL2, APOA1, CD14, CXCL3, IKBKE, PLCB2, MAPK12, ABCG1</i>

Table S6. Enriched biological processes (GO Terms) for down-regulated genes in group 2 at weaning

Category	Term	Count	P value	Genes
GOTERM_BP_DIRECT	GO:0006954~inflammatory response	17	3.12E-5	<i>CSF1R, CXCL9, CCL22, LOC504773, C5AR1, PTAFR, PTGER3, PTGS2, CXCL3, AIF1, C3, CXCL10, C3AR1, CHI3L1, CD14, LAT, IDO1</i>
GOTERM_BP_DIRECT	GO:0030593~neutrophil chemotaxis	9	4.39E-5	<i>CXCL10, FCER1G, CCL22, ITGB2, LOC504773, C5AR1, PDE4B, NCKAP1L, CXCL3</i>
GOTERM_BP_DIRECT	GO:0009617~response to bacterium	9	1.76E-4	<i>C3, CFD, CXCL9, BAIAP2L1, RGS1, SCN7A, TENT5A, CD14, FKBP5</i>
GOTERM_BP_DIRECT	GO:0071222~cellular response to lipopolysaccharide	9	7.29E-4	<i>CD86, CXCL10, TNIP3, MRC1, ARID5A, PDE4B, IRF8, CD14, CXCL3</i>
GOTERM_BP_DIRECT	GO:0010884~positive regulation of lipid storage	4	7.37E-4	<i>C3, IKBKE, FAM71F2, PLIN5</i>
GOTERM_BP_DIRECT	GO:0090501~RNA phosphodiester bond hydrolysis	4	7.37E-4	<i>BRB, RNASE6, RNASE1</i>
GOTERM_BP_DIRECT	GO:0045087~innate immune response	18	9.98E-4	<i>C1QB, BTNL9, C1QA, FCER1G, RIOK3, RNASE6, ARID5A, SLA, MPEG1, C2, HCK, C7, LOC100300510, LCK, TIFA, LOC515676, CD14, TMEM106A</i>
GOTERM_BP_DIRECT	GO:0007169~transmembrane receptor protein tyrosine kinase signaling pathway	9	0,00111	<i>RET, ALK, HCK, CSF1R, FLT3, LCK, CASS4, SLA, LCP2</i>
GOTERM_BP_DIRECT	GO:0071346~cellular response to interferon-gamma	8	0,00118	<i>LOC781710, GBP5, CCL22, LOC504773, MRC1, WAS, IRF8, AIF1</i>
GOTERM_BP_DIRECT	GO:0006957~complement activation, alternative pathway	4	0,00140	<i>C3, CFD, C7, CFB</i>
GOTERM_BP_DIRECT	GO:0098586~cellular response to virus	5	0,00182	<i>CXCL10, RIOK3, WDFY4, IKBKE, GSDME</i>
GOTERM_BP_DIRECT	GO:0006958~complement activation, classical pathway	6	0,00237	<i>C3, C1QB, C1QA, C7, LOC100300510, C2</i>
GOTERM_BP_DIRECT	GO:0072593~reactive oxygen species metabolic process	5	0,00279	<i>SESN1, DDIT4, PDK4, BCL2, CCN1</i>
GOTERM_BP_DIRECT	GO:0051017~actin filament bundle assembly	5	0,00319	<i>BAIAP2L2, BAIAP2L1, LCP1, ESPN, AIF1</i>
GOTERM_BP_DIRECT	GO:0042742~defense response to bacterium	10	0,00381	<i>GSDMD, SPN, CEBPB, FCER1G, LOC100300510, GNLY, LOC104968634, IRF8, LYZ, MPEG1</i>
GOTERM_BP_DIRECT	GO:0097242~beta-amyloid clearance	3	0,00436	<i>C3, MSR1, C5AR1</i>
GOTERM_BP_DIRECT	GO:0006631~fatty acid metabolic process	6	0,00536	<i>C3, CPT1A, ACOT7, UCP3, HACL1, CPT1B</i>
GOTERM_BP_DIRECT	GO:0007229~integrin-mediated signaling pathway	7	0,00568	<i>ITGB2, ITGAX, APOA1, ITGAL, PRAM1, LAT, FERMT3</i>
GOTERM_BP_DIRECT	GO:0032729~positive regulation of interferon-gamma production	6	0,00628	<i>CD2, ARID5A, PDE4B, IRF8, CD14, IL18R1</i>
GOTERM_BP_DIRECT	GO:0042832~defense response to protozoan	4	0,00966	<i>LOC781710, CCDC88B, IRF8, NKG7</i>
GOTERM_BP_DIRECT	GO:0034612~response to tumor necrosis factor	4	0,00966	<i>UBD, CHI3L1, LOC504548, CXCL16</i>
GOTERM_BP_DIRECT	GO:1990542~mitochondrial transmembrane transport	3	0,01170	<i>UCP3, UCP2, SFXN1</i>
GOTERM_BP_DIRECT	GO:0006898~receptor-mediated endocytosis	5	0,01210	<i>MSR1, MRC1, CD14, SCARF1, CXCL16</i>
GOTERM_BP_DIRECT	GO:0048008~platelet-derived growth factor receptor signaling pathway	4	0,01403	<i>CSRN1, ZFAND5, TXNIP, ARID5B</i>
GOTERM_BP_DIRECT	GO:0006000~fructose metabolic process	3	0,01483	<i>PFKFB4, PFKFB3, FBP1</i>
GOTERM_BP_DIRECT	GO:0006935~chemotaxis	5	0,01651	<i>CXCL10, CXCL9, PTGDR2, PTAFR, C3AR1</i>
GOTERM_BP_DIRECT	GO:0045766~positive regulation of angiogenesis	7	0,01693	<i>C3, BTG1, C5AR1, C3AR1, CHI3L1, HMOX1, F3</i>
GOTERM_BP_DIRECT	GO:0034341~response to interferon-gamma	4	0,01747	<i>CITED1, UBD, LOC504548, CXCL16</i>

GOTERM_BP_DIRECT	GO:0050776~regulation of immune response	4	0,01747	<i>SPN, FCGR3A, FCGR2A, FCGR1A</i>
GOTERM_BP_DIRECT	GO:0016322~neuron remodeling	3	0,01828	<i>C3, C1QA, SCARF1</i>
GOTERM_BP_DIRECT	GO:0006909~phagocytosis	5	0,02040	<i>NCF2, ITGB2, IRF8, PLD4, ITGAL</i>
GOTERM_BP_DIRECT	GO:0050853~B cell receptor signaling pathway	5	0,02181	<i>LAT2, LOC100300510, LCK, BCL2, NCKAP1L</i>
GOTERM_BP_DIRECT	GO:0007155~cell adhesion	13	0,02190	<i>POSTN, TNC, ITGAL, PARVG, GPNMB, LOC112442215, CHL1, CASS4, ITGAX, LPXN, CCN1, FOLR2, FERMT3</i>
GOTERM_BP_DIRECT	GO:0051764~actin crosslink formation	3	0,02204	<i>BAIAP2L2, BAIAP2L1, AIF1</i>
GOTERM_BP_DIRECT	GO:0045820~negative regulation of glycolytic process	3	0,02204	<i>DDIT4, NUPR1, FBP1</i>
GOTERM_BP_DIRECT	GO:0031663~lipopolysaccharide-mediated signaling pathway	4	0,02793	<i>NFKBIA, SPI1, PTAFR, CD14</i>
GOTERM_BP_DIRECT	GO:0006919~activation of cysteine-type endopeptidase activity involved in apoptotic process	5	0,02804	<i>LCK, MYC, PMAIP1, XDH, F3</i>
GOTERM_BP_DIRECT	GO:0050729~positive regulation of inflammatory response	5	0,02804	<i>NFKBIA, IL1RL1, CEBPB, SUCNR1, NKG7</i>
GOTERM_BP_DIRECT	GO:0050919~negative chemotaxis	4	0,03287	<i>SEMA4A, RTN4RL1, SEMA3B, APOA1</i>
GOTERM_BP_DIRECT	GO:0071356~cellular response to tumor necrosis factor	6	0,03391	<i>LOC781710, CCL22, LOC504773, CHI3L1, YBX3, GSDME</i>
GOTERM_BP_DIRECT	GO:0034142~toll-like receptor 4 signaling pathway	3	0,03496	<i>NFKBIA, TNIP3, CD14</i>
GOTERM_BP_DIRECT	GO:0010759~positive regulation of macrophage chemotaxis	3	0,03496	<i>CSF1R, C5AR1, C3AR1</i>
GOTERM_BP_DIRECT	GO:0007166~cell surface receptor signaling pathway	8	0,03741	<i>SPN, CD86, FCGR3A, FCGR2A, CD8A, ADGRG5, GCGR, FCGR1A</i>
GOTERM_BP_DIRECT	GO:0007159~leukocyte cell-cell adhesion	3	0,03978	<i>ITGB2, ITGAL, FERMT3</i>
GOTERM_BP_DIRECT	GO:0090023~positive regulation of neutrophil chemotaxis	3	0,03978	<i>C5AR1, C3AR1, NCKAP1L</i>
GOTERM_BP_DIRECT	GO:0042493~response to drug	5	0,04126	<i>LCK, MYC, BCL2, APOD, NCKAP1L</i>
GOTERM_BP_DIRECT	GO:0050830~defense response to Gram-positive bacterium	6	0,04189	<i>GSDMD, LOC781710, C5AR1, RNASE6, LYZ, MPEG1</i>
GOTERM_BP_DIRECT	GO:0006915~apoptotic process	11	0,04281	<i>TNFAIP8, CITED1, TCIM, DDIT4, BCL2, CHI3L1, HMOX1, DNASE1L3, BCL2L14, FOXO1, GADD45G</i>
GOTERM_BP_DIRECT	GO:0006911~phagocytosis, engulfment	4	0,04400	<i>MSR1, BIN2, LOC100300510, AIF1</i>
GOTERM_BP_DIRECT	GO:2000379~positive regulation of reactive oxygen species metabolic process	3	0,04483	<i>CDKN1A, GADD45A, XDH</i>
GOTERM_BP_DIRECT	GO:0030335~positive regulation of cell migration	8	0,04621	<i>RET, SH3RF2, SEMA4A, PDPN, SEMA3B, CCN1, CXCL16, FERMT3</i>
GOTERM_BP_DIRECT	GO:0043065~positive regulation of apoptotic process	9	0,04905	<i>KLF11, TNFAIP8, GADD45A, ZBTB16, UBD, HMOX1, CCN1, LOC504548, FOXO1</i>

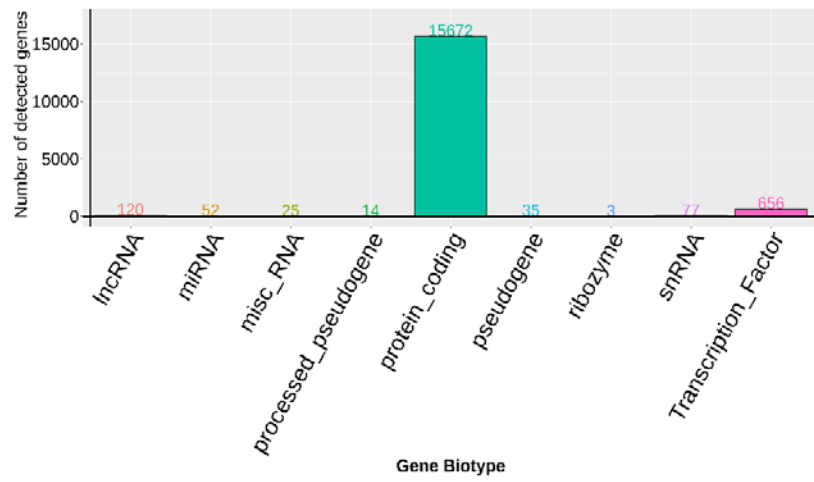


Figure S1. Number of genes detected by functional category in RNA sequencing considering the application of a filter that excludes genes that had a low relative count for read count after normalization.

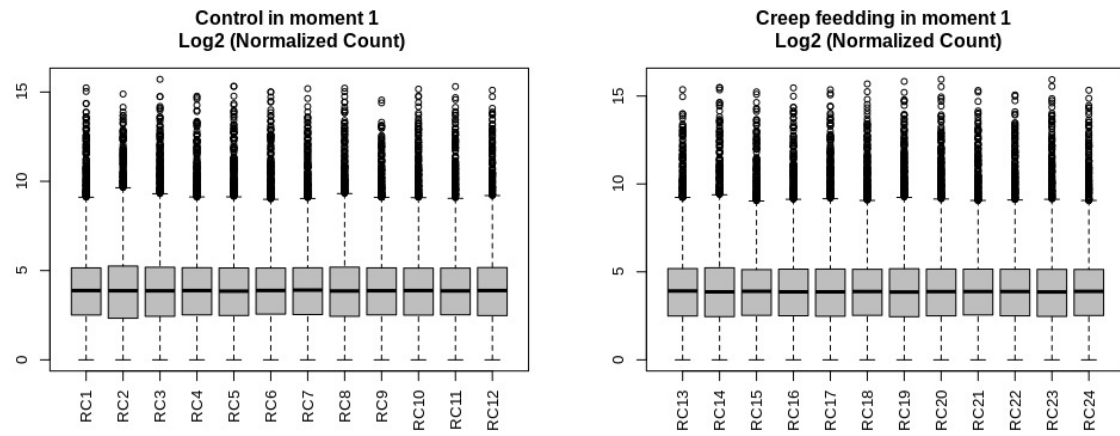


Figure S2. Log2 boxplot of the read count normalized by the size factor per sample of the groups (without creep/control and with creep – G1 and G2, respectively).