Supplementary table S.3 Cufflinks output, list of differentially expressed genes in gill (g) tissue of three-spined sticklebacks. Differentially expressed is defined by comparison to uninfected controls. The term „gene“ is the name for a specific gene as taken from the *G. aculeatus* reference genome, „locus“ is the location on the genome, „sample_1“ is the control group, „sample_2“ is the infection treatment group, „value_1“ are FPKM values for „sample_1“, „value_2“ FPKM values for „sample_2“, log2(fold change) displays the transformed fold change in „sample_2“ compared to „sample_1“, the next three columns show the test statistic, p value and q value for each test, the last column shows whether the observed difference was significant (only significant differences shown).

gene	locus	sample_1	sample_2	value_1	value_2	log2(fold_cha	test_stat	p_value	q_value	significant
ENSGACG00000008353	groupI:7086896-7088717	control	clone XII	50,3064	263,255	2,38765	-3,3498	0,000808706	0,012922	yes
ZFP36	groupI:7086896-7088717	control	clone XII	60,4191	286,55	2,24571	-3,1527	0,00161768	0,0226335	yes
DHRS13 (1 of 3)	groupI:19518328-19523773	control	clone XII	108,393	38,3487	-1,49902	4,56292	5,04E-06	0,000185782	yes
NID2	groupI:20844309-20873790	control	clone XII	2,46445	6,30812	1,35594	-3,55866	0,000372754	0,00686296	yes
ENSGACG00000014109	groupII:473042-478908	control	clone XII	47,5235	176,247	1,89089	-2,8524	0,00433903	0,0494517	yes
PCDH20	groupII:7099597-7102887	control	clone XII	2,12969	13,209	2,63281	-3,1474	0,00164728	0,022971	yes
ADPRHL1	groupII:7768909-7772963	control	clone XII	0,973713	25,1604	4,69151	-3,83229	0,000126958	0,0028064	yes
ALPK3 (1 of 2)	groupII:15268483-15277781	control	clone XII	0,607306	6,71075	3,46598	-3,48465	0,000492782	0,00862902	yes
ENSGACG00000012663	groupIII:205052-212076	control	clone XII	1,68504	11,123	2,72269	-3,59056	0,00032997	0,00620401	yes
ENSGACG00000014948	groupIII:6319454-6331292	control	clone XII	0,748855	204,851	8,09567	-4,16889	3,06E-05	0,000853698	yes
ENSGACG00000014960	groupIII:6336030-6349511	control	clone XII	8,46975	49,6754	2,55214	-2,9573	0,00310345	0,0380444	yes
MYOM1 (2 of 2)	groupIII:12926418-12939638	control	clone XII	29,8104	53,5753	0,845752	-2,90411	0,00368303	0,0435377	yes
FOSL1	groupIV:5471462-5474199	control	clone XII	1,06039	22,6561	4,41723	-3,10783	0,00188469	0,0255974	yes
TSC22D3	groupIV:8520481-8545266	control	clone XII	34,2229	156,38	2,19202	-3,31443	0,000918313	0,0143307	yes
ACSL4	groupIV:15052252-15058258	control	clone XII	12,7385	28,8263	1,17819	-4,24316	2,20E-05	0,000647636	yes
ENSGACG00000018580	groupIV:15794115-15800925	control	clone XII	4,97784	24,6011	2,30513	-4,29601	1,74E-05	0,000529942	yes
LMOD2 (1 of 2)	groupIV:17997325-18001058	control	clone XII	3,49819	22,0856	2,65843	-3,62843	0,00028515	0,00549748	yes
NAV3	groupIV:25318370-25416178	control	clone XII	1,46705	9,68982	2,72356	-4,33458	1,46E-05	0,000456931	yes
SLC25A43	groupIV:5559504-5568467	control	clone XII	272,766	595,868	1,12733	-4,31428	1,60E-05	0,000494187	yes
FHL1 (1 of 2)	groupIV:6211431-6220387	control	clone XII	124,105	305,306	1,29869	-3,14521	0,00165965	0,0231076	yes
F8	groupIV:8344801-8357245	control	clone XII	5,13808	29,6584	2,52914	-3,33818	0,000843296	0,0133667	yes
GPX3	groupIV:13399030-13402595	control	clone XII	7,77586	57,3863	2,88363	-2,87865	0,00399387	0,0463754	yes
JUNB (2 of 2)	groupIX:15395448-15396453	control	clone XII	15,1382	63,0149	2,0575	-3,07201	0,00212623	0,0281882	yes
SORBS2	groupIX:5510578-5528882	control	clone XII	0,712431	12,4005	4,1215	-3,63341	0,000279704	0,00541025	yes
EDNRA	groupIX:6671382-6677679	control	clone XII	11,7722	51,1584	2,11959	-2,93187	0,00336931	0,0405912	yes
SMOX	groupIX:8508224-8518163	control	clone XII	7,5081	68,1363	3,1819	-7,55141	4,31E-14	1,42E-11	yes
DDIT4 (1 of 2)	groupV:834468-835775	control	clone XII	71,5376	923,628	3,69054	-4,7434	2,10E-06	8,82E-05	yes
SOCS3 (2 of 2)	groupV:2198432-2199203	control	clone XII	8,34668	47,5986	2,51164	-3,07035	0,00213805	0,0283133	yes
ENSGACG00000006530	groupV:8380543-8394690	control	clone XII	3,6377	14,3726	1,98222	-3,27455	0,00105829	0,0160868	yes
ENSGACG00000009715	groupV:11520658-11524884	control	clone XII	7,69285	20,9397	1,44465	-3,70777	0,000209094	0,00425162	yes
BAG3	groupVI:2938723-2942498	control	clone XII	5,59052	29,545	2,40186	-3,2849	0,00102019	0,0156133	yes
ADAM8 (1 of 2)	groupVI:8010221-8017184	control	clone XII	1,99632	14,0493	2,81508	-3,46488	0,000530467	0,00916727	yes
ENSGACG00000018840	groupVII:1415817-1425837	control	clone XII	7,80816	44,0267	2,49532	-5,15229	2,57E-07	1,46E-05	yes
ENSGACG00000019951	groupVII:8986295-8988589	control	clone XII	16,1539	85,6633	2,4068	-2,89957	0,0037367	0,0440323	yes
UCP2	groupVII:17373494-17381519	control	clone XII	6,97669	28,4305	2,02682	-3,10098	0,00192882	0,0260708	yes
ADAMTS15 (2 of 2)	groupVII:18219271-18228512	control	clone XII	1,72939	9,21868	2,4143	-2,86653	0,00414994	0,0477789	yes
ENSGACG00000018802	groupVII:1133366-1137045	control	clone XII	25,1082	112,963	2,16961	-3,65585	0,000256331	0,00503493	yes
ENSGACG00000019023	groupVII:2316335-2322112	control	clone XII	155,522	243,615	0,647488	-3,19399	0,00140321	0,0201973	yes
SLC3A2 (2 of 2)	groupVII:7463599-7468791	control	clone XII	57,6051	203,394	1,82001	-3,04591	0,0023198	0,0302066	yes
ENSGACG00000019819	groupVII:7739782-7745404	control	clone XII	330,117	95,5604	-1,78849	2,95049	0,00317272	0,0387159	yes
ENSGACG00000019952	groupVII:8986295-8988589	control	clone XII	20,2603	113,156	2,48159	-3,90422	9,45E-05	0,00219424	yes
ENSGACG00000020145	groupVII:12192535-12195407	control	clone XII	6,81232	60,9808	3,16214	-4,90661	9,27E-07	4,39E-05	yes
ENSGACG00000020852	groupVII:26873887-26878683	control	clone XII	7,63033	28,3403	1,89304	-3,15518	0,001604	0,0224793	yes
KLHL30	groupVIII:1730936-1734754	control	clone XII	6,39318	30,1863	2,23929	-3,43612	0,000590105	0,009995	yes
SLCO2A1	groupVIII:1818222-1828872	control	clone XII	11,3801	73,0033	2,68145	-4,07361	4,63E-05	0,00120776	yes
ENSGACG00000006048	groupVIII:6015396-6017317	control	clone XII	11,9513	76,9368	2,6865	-3,03342	0,00241797	0,0312234	yes
ENSGACG00000010050	groupVIII:12782195-12784724	control	clone XII	75,8464	356,62	2,23323	-4,51067	6,46E-06	0,000229088	yes
ABL2	groupVIII:13765906-13784759	control	clone XII	17,2845	56,791	1,71619	-2,94621	0,00321698	0,0391373	yes
GADD45B (1 of 2)	groupVIII:17587366-17588960	control	clone XII	37,5126	109,627	1,54716	-2,89483	0,0037936	0,0445552	yes
IGFBP1 (1 of 2)	groupVIII:3323546-3325070	control	clone XII	4,18529	28,4501	2,76504	-2,8579	0,00426454	0,0488	yes
MYLK4 (1 of 2)	groupVIII:3765987-3770589	control	clone XII	2,19647	27,7815	3,66086	-3,69668	0,000218435	0,00441022	yes
ARRDC2	groupVIII:9263821-9271184	control	clone XII	56,2373	305,752	2,44276	-3,15408	0,00161006	0,0225474	yes
ENSGACG00000011294	groupVIII:14348055-14365334	control	clone XII	311,59	892,933	1,5189	-4,39237	1,12E-05	0,000365142	yes
PPT2	groupX:3202821-3206898	control	clone XII	19,0794	70,2332	1,88014	-2,86336	0,00419174	0,0481513	yes
RNF19B	groupX:1428392-1440080	control	clone XII	7,9907	18,6609	1,22362	-3,42391	0,000617262	0,0103695	yes
FHOD3 (1 of 2)	groupX:11325772-11366320	control	clone XII	1,50954	8,19325	2,44033	-3,19577	0,00139457	0,0200974	yes
PDK2 (2 of 2)	groupXI:2022608-2030635	control	clone XII	14,6456	72,6066	2,30963	-3,52154	0,000429042	0,00770546	yes
ENSGACG00000007447	groupXI:4320058-4324681	control	clone XII	47,5903	14,7842	-1,68661	3,51511	0,000439578	0,00786092	yes
AOC2	groupXI:2185180-2193569	control	clone XII	4,95629	28,235	2,51015	-4,6096	4,03E-06	0,000153727	yes
CSNK1E (2 of 2)	groupXI:4260951-4268829	control	clone XII	27,8059	54,0266	0,95828	-3,09944	0,00193884	0,0261808	yes
TEF (1 of 2)	groupXI:4665255-4667381	control	clone XII	14,2325	66,4408	2,22288	-3,13793	0,00170145	0,0235716	yes
CBX7 (2 of 2)	groupXI:4748361-4752125	control	clone XII	15,2563	40,6416	1,41355	-3,37552	0,000736774	0,0119811	yes
NAPSA	groupXI:5068125-5071647	control	clone XII	20,8276	48,4569	1,21821	-5,05326	4,34E-07	2,29E-05	yes
SOCS3 (1 of 2)	groupXI:9066120-9067557	control	clone XII	25,2321	250,36	3,31067	-4,5713	4,85E-06	0,000179579	yes
MKL2 (2 of 2)	groupXI:13726296-13732972	control	clone XII	4,35613	18,2684	2,06823	-2,98702	0,00281709	0,0352331	yes
FMNL1 (2 of 2)	groupXI:14614250-14626268	control	clone XII	26,6017	40,5556	0,608382	-2,93727	0,00331117	0,0400362	yes
SCN4A (2 of 2)	groupXI:16076435-16099888	control	clone XII	0,783534	9,48819	3,59807	-4,45378	8,44E-06	0,000287059	yes
TNNT2 (1 of 2)	groupXII:12120259-12127679	control	clone XII	4,09459	297,459	6,18283	-5,12725	2,94E-07	1,64E-05	yes
ITGA5 (1 of 2)	groupXII:13865836-13893682	control	clone XII	1,8522	12,0105	2,69698	-3,01138	0,00260064	0,0330809	yes
CEBPB	groupXII:15595556-15596471	control	clone XII	38,5144	206,94	2,42574	-3,84504	0,000120531	0,00268807	yes
ENSGACG00000012657	groupXII:16668755-16670927	control	clone XII	3,19606	563,882	7,46295	-5,62532	1,85E-08	1,50E-06	yes
ENSGACG00000003612,STK35 (1 of 2)	groupXII:2314771-2325238	control	clone XII	13,3264	46,9256	1,81609	-5,20731	1,92E-07	1,13E-05	yes
MAD2L2	groupXII:5896524-5900121	control	clone XII	69,4241	23,9606	-1,53477	3,43981	0,000582133	0,0098846	yes
MMP9	groupXII:10243687-10248615	control	clone XII	36,6081	131,094	1,84036	-3,48901	0,000484807	0,00851444	yes
ENSGACG00000011767	groupXII:15482374-15483481	control	clone XII	1,98912	22,9263	3,52681	-2,91863	0,00351571	0,0419643	yes
MYL7	groupXIII:1859284-1860683	control	clone XII	4,22019	1081,87	8,00201	-5,04881	4,45E-07	2,33E-05	yes
GADD45G (1 of 3)	groupXIII:5635193-5636935	control	clone XII	19,0365	76,9361	2,01489	-3,45305	0,000554291	0,00949883	yes
KLF9	groupXIII:11679462-11681419	control	clone XII	10,8009	111,085	3,36244	-4,79182	1,65E-06	7,18E-05	yes
BMP1 (1 of 2)	groupXIII:12056150-12080196	control	clone XII	11,1381	35,1266	1,65706	-2,87931	0,00398548	0,0462977	yes
PDLIM2	groupXIII:12245916-12272753	control	clone XII	24,0273	45,7643	0,929548	-3,23712	0,00120742	0,0178988	yes
C6	groupXIV:10371246-10378853	control	clone XII	3,91636	10,9939	1,48911	-3,26709	0,00108661	0,0164358	yes
DAB2	groupXIV:1628592-1635733	control	clone XII	5,07582	14,08	1,47193	-4,00638	6,17E-05	0,00153559	yes
ENSGACG00000002902	groupXIX:2484536-2497605	control	clone XII	5,37291	39,9681	2,89507	-3,67728	0,000235732	0,00469788	yes
ENSGACG00000002933	groupXIX:2501528-2511962	control	clone XII	3,95259	39,8334	3,33311	-4,76216	1,92E-06	8,14E-05	yes
ENSGACG00000003003	groupXIX:2530796-2539506	control	clone XII	34,5327	385,531	3,48081	-2,96166	0,00305981	0,0376296	yes
SLC25A44 (2 of 2)	groupXIX:8533460-8537695	control	clone XII	47,2763	24,9795	-0,920373	3,48198	0,000497718	0,00869976	yes
ENSGACG00000008872	groupXIX:9986807-9990671	control	clone XII	45,0013	19,255	-1,22474	2,88114	0,00396237	0,0460921	yes
ALPK3 (2 of 2)	groupXIX:12932395-12942731	control	clone XII	1,80604	8,00938	2,14886	-2,90457	0,00367762	0,0434877	yes
ENSGACG00000004200	groupXIX:5960032-5963222	control	clone XII	14,8465	74,0679	2,31873	-3,50072	0,000464002	0,00821685	yes
DENND4A (2 of 2)	groupXIX:6453753-6469506	control	clone XII	0,605334	6,62834	3,45285	-3,9184	8,91E-05	0,00208854	yes
ANO9 (1 of 2)	groupXIX:7253474-7258006	control	clone XII	27,2713	16,2289	-0,748815	2,89568	0,00378342	0,044463	yes
PPP1R15B	groupXIX:8013636-8017213	control	clone XII	15,1615	64,9098	2,09803	-3,54197	0,000397146	0,00723149	yes
ENSGACG00000008779	groupXIX:9929495-9931303	control	clone XII	36,0468	18,1253	-0,99187	3,9443	8,00E-05	0,00190918	yes
EHF	groupXIX:14128181-14131907	control	clone XII	78,5776	19,4997	-2,01067	9,76523	0	0	yes
HGF (1 of 2)	groupXIX:16212949-16226790	control	clone XII	1,65226	13,7584	3,05781	-3,55949	0,000371571	0,0068446	yes
TMEM54 (1 of 2)	groupXV:4129199-4132227	control	clone XII	185,066	111,189	-0,735023	4,76415	1,90E-06	8,07E-05	yes
THBS1 (2 of 2)	groupXV:2296799-2303009	control	clone XII	2,65074	34,5915	3,70595	-4,24713	2,17E-05	0,000638121	yes
ENSGACG00000006109	groupXV:2485490-2488657	control	clone XII	5,19758	204,195	5,29596	-4,50709	6,57E-06	0,000232431	yes
ENSGACG00000009229	groupXV:7000917-7002139	control	clone XII	608,675	143,63	-2,08331	3,56185	0,000368246	0,00679296	yes
TRIM63	groupXVI:2043746-2051139	control	clone XII	12,979	55,0919	2,08566	-3,20417	0,00135454	0,0196346	yes
LRRFIP1 (1 of 2)	groupXVI:2173128-2210140	control	clone XII	13,4121	37,4832	1,48271	-5,28189	1,28E-07	8,00E-06	yes
OBSL1 (2 of 2)	groupXVI:5028195-5052297	control	clone XII	1,93798	6,14302	1,66439	-3,1555	0,00160222	0,0224604	yes
IRS2 (1 of 2)	groupXVI:7915269-7918611	control	clone XII	7,03819	29,5228	2,06855	-3,10279	0,00191706	0,0259422	yes
CASQ2 (1 of 2)	groupXVI:8508601-8514153	control	clone XII	8,45874	22,4406	1,40759	-2,95974	0,00307895	0,0378144	yes
GLB1L	groupXVI:11568968-11574338	control	clone XII	2,38445	9,88663	2,05182	-3,92567	8,65E-05	0,00203729	yes
ENSGACG00000005904	groupXVII:4156230-4161206	control	clone XII	5,05746	39,2117	2,9548	-4,45447	8,41E-06	0,000286309	yes
ENSGACG00000010478	groupXVII:10724718-10741442	control	clone XII	4,98245	19,7025	1,98345	-2,86906	0,00411691	0,04748	yes
SLC41A3 (1 of 2)	groupXVII:10995214-11001714	control	clone XII	0,831938	22,2157	4,73896	-3,41491	0,000638038	0,0106543	yes
ALPL	groupXVII:2447938-2457151	control	clone XII	8,11118	18,4409	1,18492	-2,91511	0,00355568	0,0423446	yes
ENSGACG00000008661,ENSGACG00000008663	groupXVII:8034011-8039296	control	clone XII	20,0964	36,9636	0,879168	-2,97232	0,00295562	0,0366216	yes
ENSGACG00000007661	groupXVIII:6547159-6551089	control	clone XII	9,1662	480,502	5,71207	-4,16627	3,10E-05	0,000862009	yes
MRPS10	groupXVIII:8423428-8425214	control	clone XII	203,59	105,41	-0,949657	3,27384	0,00106097	0,0161199	yes
ACP1	groupXVIII:11653717-11661763	control	clone XII	288,366	150,671	-0,936496	3,16095	0,00157257	0,0221283	yes
HSP90AA1 (2 of 2)	groupXVIII:14758906-14763271	control	clone XII	2,48733	17,7599	2,83595	-3,26731	0,00108575	0,0164249	yes
ENSGACG00000010476	groupXVIII:10338804-10341156	control	clone XII	7,90894	140,49	4,15084	-6,39497	1,61E-10	2,33E-08	yes
RPS29	groupXVIII:14743703-14744593	control	clone XII	18752,2	9755,8	-0,94273	3,23122	0,00123265	0,0182012	yes
DIO3	groupXVIII:14792966-14793368	control	clone XII	10,7309	86,5018	3,01096	-3,40543	0,000660609	0,0109589	yes
ENSGACG00000013782	groupXVIII:16190238-16196307	control	clone XII	1,09741	15,0298	3,77565	-4,38576	1,16E-05	0,000374475	yes
KIAA0907	groupXX:12578997-12584703	control	clone XII	19,0056	39,204	1,04458	-3,63603	0,00027687	0,00536508	yes
KLHL38 (2 of 2)	groupXX:5618665-5622627	control	clone XII	3,80745	31,7783	3,06114	-3,84906	0,000118572	0,00265181	yes
C4A	groupXX:9276660-9289490	control	clone XII	26,6354	59,4999	1,15954	-5,83678	5,32E-09	5,08E-07	yes
ENSGACG00000009520,ENSGACG00000009524	groupXX:11267260-11284958	control	clone XII	66,678	134,042	1,0074	-2,9619	0,0030575	0,0376081	yes
ENSGACG00000009825	groupXX:11526900-11530777	control	clone XII	16,3629	77,094	2,23619	-5,22212	1,77E-07	1,06E-05	yes
NR1D2 (2 of 2)	groupXX:14965102-14970216	control	clone XII	20,0526	111,984	2,48143	-3,73097	0,000190746	0,00393907	yes
ENSGACG00000013327	groupXX:16118213-16120496	control	clone XII	2,56854	25,6165	3,31805	-3,64792	0,000264369	0,00516375	yes
BAG6 (2 of 2)	groupXX:16125096-16135132	control	clone XII	21,5661	31,1587	0,530867	-2,87391	0,0040542	0,0469169	yes
ENSGACG00000003464	groupXXI:8029733-8038141	control	clone XII	3,94381	10,7657	1,44878	-2,89779	0,00375806	0,0442279	yes
SLC4A2 (3 of 3)	groupXXI:10036568-10048067	control	clone XII	1,31913	7,5689	2,5205	-3,64605	0,000266301	0,00519505	yes
WAC (1 of 2)	groupXXI:557602-579035	control	clone XII	13,0304	29,4546	1,17662	-3,89902	9,66E-05	0,00223429	yes
ENSGACG00000004079	groupXXI:9448708-9457454	control	clone XII	1,42339	32,1966	4,49951	-4,45375	8,44E-06	0,00028709	yes
BAG6 (1 of 2)	scaffold_101:157721-177579	control	clone XII	8,76521	15,7923	0,849364	-3,1912	0,00141682	0,0203509	yes
ENSGACG00000010623	scaffold_133:23068-23662	control	clone XII	3,27134	1400,79	8,74215	-5,38181	7,37E-08	4,97E-06	yes
TG	scaffold_157:35547-44817	control	clone XII	3,25152	18,8399	2,53461	-3,12325	0,00178864	0,0245357	yes
ITGB1 (1 of 2)	scaffold_169:109603-124646	control	clone XII	35,9397	55,5941	0,629352	-4,21146	2,54E-05	0,000729761	yes
ENSGACG00000010501	scaffold_185:398-145602	control	clone XII	108,909	37,7797	-1,52744	4,57405	4,78E-06	0,000177573	yes
EIF5B	scaffold_210:40893-49514	control	clone XII	12,4233	20,4365	0,718096	-3,32644	0,000879615	0,0138336	yes
TIMELESS	scaffold_27:1143833-1158386	control	clone XII	1,15246	12,361	3,42301	-3,03017	0,00244414	0,0314901	yes
VWA1 (2 of 2)	scaffold_27:3166036-3170998	control	clone XII	77,0431	44,9176	-0,778383	7,10095	1,24E-12	3,03E-10	yes
PTGIS (2 of 2)	scaffold_27:3833602-3840073	control	clone XII	38,8	123,16	1,66641	-3,04271	0,00234458	0,0304657	yes
KCNB1	scaffold_27:3843350-3862320	control	clone XII	3,70186	37,9268	3,35689	-5,51314	3,52E-08	2,62E-06	yes
FKBP5	scaffold_27:4190407-4197823	control	clone XII	21,4832	479,394	4,47993	-5,68876	1,28E-08	1,09E-06	yes
SVIL (1 of 2)	scaffold_37:1988686-2023111	control	clone XII	4,54125	10,2776	1,17834	-2,98989	0,00279078	0,0349739	yes
ENSGACG00000001749	scaffold_434:1322-4701	control	clone XII	2,47946	19,4573	2,97222	-3,59272	0,000327239	0,00616061	yes
ENSGACG00000000208	scaffold_459:10291-13858	control	clone XII	1,97336	21,4346	3,44122	-3,97358	7,08E-05	0,00172361	yes
PTRF (1 of 2)	scaffold_48:1611748-1628972	control	clone XII	11,0336	41,6631	1,91687	-3,46949	0,000521443	0,00903934	yes
TNNC1	scaffold_68:530264-533797	control	clone XII	2,48825	256,551	6,68797	-5,17049	2,33E-07	1,34E-05	yes
ENSGACG00000000300	scaffold_69:420454-477489	control	clone XII	15,6926	73,0151	2,21811	-3,18148	0,00146525	0,0209078	yes
ENSGACG00000000272	scaffold_69:195180-196587	control	clone XII	48,5113	196,966	2,02155	-3,38432	0,000713554	0,011674	yes
MYLK	scaffold_69:420454-477489	control	clone XII	6,77157	25,454	1,91033	-2,95588	0,00311783	0,03818	yes
ENSGACG00000000849	scaffold_863:4798-7415	control	clone XII	1,56157	15,2263	3,2855	-3,07291	0,00211981	0,0281181	yes
ENSGACG00000008353	groupI:7086896-7088717	control	clone I	50,3064	152,828	1,60309	-3,21835	0,00128929	0,0188717	yes
ENSGACG00000009417	groupI:9066262-9069851	control	clone I	33,9764	96,728	1,5094	-3,18855	0,00142986	0,0204997	yes
ZFP36	groupI:7086896-7088717	control	clone I	60,4191	178,19	1,56034	-3,3816	0,00072066	0,0117672	yes
ADPRHL1	groupII:7768909-7772963	control	clone I	0,973713	10,4742	3,4272	-2,88171	0,00395527	0,0460285	yes
BTBD10 (1 of 2)	groupII:10369562-10375886	control	clone I	42,4814	33,5504	-0,3405	3,20409	0,0013549	0,0196386	yes
ENSGACG00000015897	groupII:11731640-11741866	control	clone I	290,256	210,086	-0,466343	10,5902	0	0	yes
PAQR5	groupII:18965510-18973830	control	clone I	50,2725	32,6755	-0,621558	3,89814	9,69E-05	0,00224123	yes
ENSGACG00000014948	groupIII:6319454-6331292	control	clone I	0,748855	45,4512	5,92349	-6,0245	1,70E-09	1,87E-07	yes
RGS13 (2 of 2)	groupIII:9436194-9438496	control	clone I	33,8673	87,5836	1,37077	-2,86336	0,00419181	0,0481519	yes
COL11A1 (2 of 2)	groupIII:11565982-11627261	control	clone I	2,11762	7,57361	1,83854	-3,22625	0,00125422	0,0184586	yes
CEBPD	groupIII:16376601-16377524	control	clone I	221,489	636,103	1,52203	-3,18623	0,00144139	0,0206331	yes
TSC22D3	groupIV:8520481-8545266	control	clone I	34,2229	155,332	2,18233	-4,48824	7,18E-06	0,000250547	yes
CASP3 (4 of 4)	groupIV:17650265-17655564	control	clone I	450,008	269,981	-0,73709	3,80738	0,000140448	0,00305316	yes
ENSGACG00000019744	groupIV:29692169-29694681	control	clone I	72,2423	167,575	1,21389	-3,48334	0,000495206	0,00866407	yes
SLC25A43	groupIV:5559504-5568467	control	clone I	272,766	514,594	0,915771	-4,26234	2,02E-05	0,000602634	yes
MYBPC1	groupIV:30979682-30996951	control	clone I	18,1733	25,4958	0,488438	-4,20536	2,61E-05	0,000746637	yes
NDUFS8 (2 of 2)	groupIX:4125131-4133669	control	clone I	187,361	150,683	-0,314304	4,30529	1,67E-05	0,000511479	yes
ENSGACG00000018993	groupIX:15088279-15089729	control	clone I	344,064	125,179	-1,45868	3,45266	0,000555097	0,00950987	yes
SLC8A1 (2 of 2)	groupIX:19919460-19931018	control	clone I	0	9,28237	1,80E+308	1,80E+308	0,000275115	0,00533715	yes
ENSGACG00000016379	groupIX:3210035-3214271	control	clone I	23,9364	48,1527	1,00841	-3,16222	0,00156572	0,0220528	yes
SMOX	groupIX:8508224-8518163	control	clone I	7,5081	24,6879	1,71728	-4,71066	2,47E-06	0,000101125	yes
ENSGACG00000019252	groupIX:16121523-16124104	control	clone I	38,0484	94,8713	1,31814	-3,01611	0,00256043	0,0326731	yes
DDIT4 (1 of 2)	groupV:834468-835775	control	clone I	71,5376	801,165	3,48533	-6,69833	2,11E-11	3,84E-09	yes
ENTPD1	groupV:1673682-1685493	control	clone I	43,7735	57,9659	0,405147	-3,36887	0,000754777	0,0122171	yes
ENSGACG00000009409	groupV:11304062-11306049	control	clone I	60,862	359,262	2,56142	-3,38787	0,000704388	0,0115523	yes
COL1A1 (2 of 2)	groupV:3433394-3454716	control	clone I	120,383	195,736	0,701278	-3,1774	0,001486	0,0211432	yes
ACE	groupV:11674618-11688534	control	clone I	7,8532	17,9434	1,1921	-4,51454	6,35E-06	0,000225561	yes
CYP1B1	groupVI:2417128-2420132	control	clone I	21,7909	53,6428	1,29966	-2,8951	0,00379036	0,0445283	yes
UBTD1 (2 of 2)	groupVI:8353732-8359634	control	clone I	36,8727	19,0522	-0,9526	3,70876	0,000208281	0,00423736	yes
SULT6B1	groupVII:14351689-14358209	control	clone I	223,45	179,706	-0,314315	4,69467	2,67E-06	0,000108152	yes
ENSGACG00000018557,ENSGACG00000018560	groupVII:127090-135192	control	clone I	72,4599	126,103	0,799344	-5,45935	4,78E-08	3,41E-06	yes
ENSGACG00000018840	groupVII:1415817-1425837	control	clone I	7,80816	34,3123	2,13567	-4,90975	9,12E-07	4,32E-05	yes
SLC7A8	groupVII:2888331-2902598	control	clone I	18,4292	32,9228	0,837094	-3,65115	0,000261067	0,00511129	yes
ENSGACG00000020181	groupVII:12872156-12875169	control	clone I	7,77078	39,0872	2,33056	-4,69983	2,60E-06	0,000105829	yes
ASL	groupVII:19028240-19050014	control	clone I	50,9574	32,7955	-0,635794	2,97306	0,00294843	0,0365495	yes
DYNLL1	groupVII:21537345-21538705	control	clone I	155,314	92,8507	-0,742202	4,28614	1,82E-05	0,000550311	yes
ENSGACG00000018802	groupVII:1133366-1137045	control	clone I	25,1082	96,307	1,93948	-4,294	1,75E-05	0,000533964	yes
ENSGACG00000019023	groupVII:2316335-2322112	control	clone I	155,522	212,996	0,453711	-3,49765	0,000469374	0,00829426	yes
ENSGACG00000019952	groupVII:8986295-8988589	control	clone I	20,2603	58,3928	1,52714	-2,96814	0,00299605	0,0370231	yes
ENSGACG00000020145	groupVII:12192535-12195407	control	clone I	6,81232	37,8291	2,47328	-4,64048	3,48E-06	0,000135431	yes
TIPRL	groupVII:12553814-12557405	control	clone I	85,6319	66,2415	-0,370412	3,29567	0,000981881	0,0151353	yes
F11R	groupVII:18366838-18372450	control	clone I	282,828	187,116	-0,595993	3,60495	0,00031221	0,00592568	yes
SLCO2A1	groupVIII:1818222-1828872	control	clone I	11,3801	30,8305	1,43784	-2,93061	0,00338298	0,0407239	yes
ENSGACG00000006048	groupVIII:6015396-6017317	control	clone I	11,9513	60,3035	2,33507	-3,55757	0,000374297	0,00688626	yes
ENSGACG00000010050	groupVIII:12782195-12784724	control	clone I	75,8464	207,112	1,44926	-4,49052	7,10E-06	0,000248261	yes
SELE	groupVIII:15021466-15028887	control	clone I	3,9964	13,5434	1,76081	-3,33765	0,000844904	0,0133884	yes
GADD45B (1 of 2)	groupVIII:17587366-17588960	control	clone I	37,5126	91,567	1,28745	-3,50956	0,000448855	0,00799541	yes
PDGFRA	groupVIII:18671403-18683235	control	clone I	9,20952	18,4715	1,0041	-3,41096	0,000647347	0,0107791	yes
ENSGACG00000006044	groupVIII:6015396-6017317	control	clone I	7,57242	68,6483	3,1804	-4,44766	8,68E-06	0,000294079	yes
ARRDC2	groupVIII:9263821-9271184	control	clone I	56,2373	307,302	2,45006	-5,27545	1,32E-07	8,25E-06	yes
CDCP1 (1 of 3),CDCP1 (3 of 3)	groupX:3789001-3798174	control	clone I	36,367	19,5237	-0,897406	2,91529	0,00355355	0,0423252	yes
ENSGACG00000007447	groupXI:4320058-4324681	control	clone I	47,5903	12,4038	-1,93989	5,13016	2,89E-07	1,62E-05	yes
ENSGACG00000007449	groupXI:4378240-4381177	control	clone I	49,7487	10,7997	-2,20367	4,22318	2,41E-05	0,000698223	yes
AOC2	groupXI:2185180-2193569	control	clone I	4,95629	14,6364	1,56223	-3,09746	0,00195189	0,0263151	yes
ENSGACG00000007454	groupXI:4500951-4505292	control	clone I	19,1988	6,96127	-1,46359	2,98523	0,00283364	0,0354025	yes
SOCS3 (1 of 2)	groupXI:9066120-9067557	control	clone I	25,2321	151,034	2,58154	-5,44358	5,22E-08	3,68E-06	yes
CANT1 (1 of 2)	groupXI:9138284-9143907	control	clone I	100,102	63,3602	-0,659822	2,94005	0,00328156	0,0397541	yes
PCTP	groupXI:15198609-15203999	control	clone I	136,089	96,8788	-0,490294	3,78145	0,000155918	0,00332977	yes
TNNT2 (1 of 2)	groupXII:12120259-12127679	control	clone I	4,09459	154,97	5,24213	-5,57942	2,41E-08	1,89E-06	yes
CEBPB	groupXII:15595556-15596471	control	clone I	38,5144	144,65	1,90909	-4,27259	1,93E-05	0,000579733	yes
ENSGACG00000012654	groupXII:16665952-16666789	control	clone I	0	133,412	1,80E+308	1,80E+308	1,31E-06	5,90E-05	yes
ENSGACG00000012657	groupXII:16668755-16670927	control	clone I	3,19606	261,003	6,35163	-5,95851	2,55E-09	2,67E-07	yes
SULT1E1	groupXII:1048503-1051783	control	clone I	100,525	77,559	-0,374183	3,52641	0,000421237	0,00758966	yes
ENSGACG00000003612,STK35 (1 of 2)	groupXII:2314771-2325238	control	clone I	13,3264	40,7432	1,61227	-4,03183	5,53E-05	0,00140301	yes
EPHA2 (1 of 2)	groupXII:5828450-5848775	control	clone I	24,5537	18,464	-0,411225	3,22585	0,00125599	0,0184807	yes
ENSGACG00000011767	groupXII:15482374-15483481	control	clone I	1,98912	15,7012	2,98067	-2,87822	0,00399931	0,0464266	yes
MYL7	groupXIII:1859284-1860683	control	clone I	4,22019	1059,85	7,97234	-6,30546	2,87E-10	3,91E-08	yes
ENSGACG00000003503	groupXIII:424304-426146	control	clone I	107,721	22,4894	-2,25998	4,26478	2,00E-05	0,000597145	yes
GCNT1	groupXIII:8044619-8046408	control	clone I	0,729881	98,149	7,07117	-4,56459	5,00E-06	0,000184514	yes
KLF9	groupXIII:11679462-11681419	control	clone I	10,8009	73,6683	2,76989	-4,90646	9,27E-07	4,39E-05	yes
PIK3R1 (1 of 2)	groupXIV:1222717-1239465	control	clone I	32,8272	76,9047	1,22818	-3,80019	0,000144583	0,00312788	yes
ENSGACG00000017093	groupXIV:6818761-6821900	control	clone I	27,3379	40,7239	0,574976	-3,18429	0,00145109	0,020743	yes
ENSGACG00000002902	groupXIX:2484536-2497605	control	clone I	5,37291	53,1071	3,30513	-4,90433	9,37E-07	4,43E-05	yes
ENSGACG00000002933	groupXIX:2501528-2511962	control	clone I	3,95259	46,592	3,55921	-5,44172	5,28E-08	3,72E-06	yes
ENSGACG00000002955	groupXIX:2513167-2523323	control	clone I	21,0012	276,3	3,71769	-21,5273	0	0	yes
ENSGACG00000003003	groupXIX:2530796-2539506	control	clone I	34,5327	377,214	3,44935	-5,98758	2,13E-09	2,28E-07	yes
CKMT1A	groupXIX:8174514-8181627	control	clone I	20,2189	39,5468	0,96786	-3,28692	0,0010129	0,0155223	yes
ENSGACG00000012962	groupXIX:16699629-16700761	control	clone I	2,03101	108,076	5,7337	-4,05452	5,02E-05	0,00129382	yes
ENSGACG00000004200	groupXIX:5960032-5963222	control	clone I	14,8465	217,445	3,87245	-5,66666	1,46E-08	1,22E-06	yes
ENSGACG00000004247	groupXIX:5991571-5993364	control	clone I	0	25,6898	1,80E+308	1,80E+308	0,000454677	0,00807937	yes
PPP1R15B	groupXIX:8013636-8017213	control	clone I	15,1615	41,9031	1,46665	-3,43914	0,000583557	0,00990473	yes
EIF4G2 (1 of 2)	groupXIX:10640524-10650421	control	clone I	51,2644	67,4917	0,396751	-2,90616	0,00365889	0,0433112	yes
FLNC (2 of 2)	groupXIX:11818853-11840148	control	clone I	8,06818	21,4842	1,41296	-5,16736	2,37E-07	1,36E-05	yes
KLF13	groupXIX:12552459-12562563	control	clone I	0	50,9034	1,80E+308	1,80E+308	0,000386751	0,00707433	yes
EHF	groupXIX:14128181-14131907	control	clone I	78,5776	45,9294	-0,774701	3,834	0,000126076	0,00279071	yes
THBS1 (2 of 2)	groupXV:2296799-2303009	control	clone I	2,65074	14,2046	2,42189	-4,41671	1,00E-05	0,000332163	yes
ENSGACG00000006109	groupXV:2485490-2488657	control	clone I	5,19758	56,7884	3,44969	-4,83351	1,34E-06	6,01E-05	yes
IDH1	groupXVI:17770455-17775942	control	clone I	119,821	83,8107	-0,515671	2,89973	0,00373478	0,0440147	yes
ENSGACG00000003420	groupXVII:7720530-7724761	control	clone I	80,8451	32,3254	-1,32249	3,29217	0,00099417	0,0152893	yes
ENSGACG00000005904	groupXVII:4156230-4161206	control	clone I	5,05746	17,9092	1,82422	-3,49482	0,000474375	0,00836619	yes
ENSGACG00000007661	groupXVIII:6547159-6551089	control	clone I	9,1662	137,088	3,90263	-5,2886	1,23E-07	7,76E-06	yes
NFKBIA (1 of 2)	groupXVIII:1969539-1972310	control	clone I	101,293	256,941	1,3429	-3,33047	0,000866986	0,0136703	yes
ENSGACG00000010476	groupXVIII:10338804-10341156	control	clone I	7,90894	77,0277	3,28382	-6,52672	6,72E-11	1,08E-08	yes
DIO3	groupXVIII:14792966-14793368	control	clone I	10,7309	53,1938	2,30949	-3,02741	0,0024666	0,0317198	yes
NCOA7 (2 of 2)	groupXX:5442148-5444002	control	clone I	75,0403	26,1798	-1,51921	3,27578	0,00105372	0,0160297	yes
FCGBP (1 of 2)	groupXX:9159953-9170999	control	clone I	33,6266	65,2253	0,955827	-3,01224	0,00259327	0,0330062	yes
TUFT1 (2 of 2)	groupXX:13275796-13285064	control	clone I	54,1856	101,515	0,905713	-3,51924	0,000432785	0,00776063	yes
PNISR	groupXX:3265740-3273201	control	clone I	30,5305	48,4117	0,665106	-3,32515	0,000883694	0,0138853	yes
C4A	groupXX:9276660-9289490	control	clone I	26,6354	44,8943	0,753185	-3,20909	0,00133154	0,0193631	yes
NR1D2 (2 of 2)	groupXX:14965102-14970216	control	clone I	20,0526	119,28	2,57249	-5,81914	5,92E-09	5,57E-07	yes
ENSGACG00000013327	groupXX:16118213-16120496	control	clone I	2,56854	19,9933	2,9605	-3,78685	0,000152568	0,00327103	yes
FZD1	groupXX:18887910-18889485	control	clone I	32,9759	13,0693	-1,33523	2,86873	0,00412123	0,0475193	yes
CCR9 (1 of 2)	groupXXI:10240244-10243103	control	clone I	15,7446	43,8927	1,47913	-3,59594	0,000323218	0,00609843	yes
ENSGACG00000004079	groupXXI:9448708-9457454	control	clone I	1,42339	16,3315	3,52026	-4,71636	2,40E-06	9,88E-05	yes
MYOM1 (1 of 2)	groupXXI:9598720-9617679	control	clone I	8,20821	15,9489	0,958314	-3,14872	0,00163999	0,0228865	yes
ENSGACG00000010623	scaffold_133:23068-23662	control	clone I	3,27134	646,134	7,62581	-6,07484	1,24E-09	1,42E-07	yes
TG	scaffold_157:35547-44817	control	clone I	3,25152	13,5753	2,06179	-3,31575	0,000913982	0,0142743	yes
ENSGACG00000018049	scaffold_164:207395-210089	control	clone I	4,54558	153,111	5,07397	-3,79518	0,000147534	0,00318105	yes
ENSGACG00000010501	scaffold_185:398-145602	control	clone I	108,909	49,6984	-1,13185	4,79812	1,60E-06	6,99E-05	yes
NEB	scaffold_202:3792-65875	control	clone I	13,3365	19,9305	0,579602	-3,69123	0,000223176	0,00448927	yes
ENSGACG00000000614	scaffold_27:1359322-1367941	control	clone I	13,1427	55,3434	2,07415	-8,03576	8,88E-16	3,93E-13	yes
VWA1 (2 of 2)	scaffold_27:3166036-3170998	control	clone I	77,0431	40,8314	-0,915985	4,87272	1,10E-06	5,08E-05	yes
GATA2 (1 of 2)	scaffold_27:2199380-2206673	control	clone I	110,657	64,4838	-0,779088	4,05452	5,02E-05	0,00129381	yes
FKBP5	scaffold_27:4190407-4197823	control	clone I	21,4832	365,986	4,09051	-6,82313	8,91E-12	1,78E-09	yes
ENSGACG00000001198	scaffold_419:5110-7209	control	clone I	1,79675	37,243	4,37351	-3,20916	0,00133122	0,0193595	yes
ENSGACG00000001749	scaffold_434:1322-4701	control	clone I	2,47946	18,6597	2,91183	-3,799	0,000145278	0,00314077	yes
ENSGACG00000001763	scaffold_434:8775-11798	control	clone I	2,65739	23,3681	3,13646	-4,83376	1,34E-06	6,00E-05	yes
ENSGACG00000000208	scaffold_459:10291-13858	control	clone I	1,97336	15,7503	2,99665	-3,41469	0,000638552	0,0106607	yes
ENSGACG00000001671	scaffold_664:2105-3998	control	clone I	22,6981	2,84531	-2,99591	3,48106	0,00049943	0,00872448	yes
TNNC1	scaffold_68:530264-533797	control	clone I	2,48825	74,4447	4,90297	-5,07798	3,81E-07	2,05E-05	yes
ENSGACG00000001127	scaffold_804:3126-5192	control	clone I	0	74,4954	1,80E+308	1,80E+308	4,47E-06	0,000167557	yes
ENSGACG00000000849	scaffold_863:4798-7415	control	clone I	1,56157	14,3288	3,19785	-3,36384	0,000768667	0,0124025	yes
RNPEPL1	groupI:427702-435209	control	clone mix	22,4259	53,9446	1,26631	-3,11276	0,00185349	0,025258	yes
ENSGACG00000004731	groupI:452298-459763	control	clone mix	17,8608	36,1187	1,01595	-3,64062	0,000271984	0,00528624	yes
SUPT5H	groupI:726931-740276	control	clone mix	14,7933	24,2284	0,711749	-4,01424	5,96E-05	0,00149382	yes
STMN1 (2 of 2)	groupXX:8300735-8303206	control	clone mix	399,942	146,828	-1,44567	6,75335	1,44E-11	2,75E-09	yes
ENSGACG00000007639	groupXX:8927916-8940373	control	clone mix	13,8189	32,4257	1,2305	-3,44841	0,000563893	0,00963287	yes
FCGBP (1 of 2)	groupXX:9159953-9170999	control	clone mix	33,6266	92,5026	1,45989	-5,03975	4,66E-07	2,43E-05	yes
ATG12	groupXX:12092526-12095577	control	clone mix	50,5042	16,175	-1,64264	3,34169	0,000832692	0,0132286	yes
LENG8	groupXX:12398369-12403235	control	clone mix	21,818	73,4638	1,75151	-4,42757	9,53E-06	0,000318226	yes
KIAA0907	groupXX:12578997-12584703	control	clone mix	19,0056	37,0574	0,963339	-4,17778	2,94E-05	0,000826371	yes
CGN (1 of 2)	groupXX:13262227-13271078	control	clone mix	2,88084	8,33636	1,53293	-2,96057	0,00307074	0,0377352	yes
ENSGACG00000012348	groupXX:13513401-13517536	control	clone mix	366,812	168,814	-1,11961	2,91355	0,0035734	0,0425099	yes
MTMR11	groupXX:15741033-15750570	control	clone mix	3,42462	10,9947	1,68279	-2,87936	0,00398484	0,0462925	yes
MAP3K6	groupXX:17266424-17277138	control	clone mix	14,5042	24,9606	0,78318	-3,85899	0,000113857	0,00256364	yes
ZC3H12A (2 of 2)	groupXX:17700260-17704760	control	clone mix	18,2685	40,8704	1,1617	-2,89109	0,00383913	0,0449722	yes
COL6A6	groupXX:182136-239263	control	clone mix	5,99784	25,4008	2,08236	-5,27606	1,32E-07	8,23E-06	yes
PNISR	groupXX:3265740-3273201	control	clone mix	30,5305	90,6931	1,57074	-8,13615	4,44E-16	2,06E-13	yes
KLHL38 (2 of 2)	groupXX:5618665-5622627	control	clone mix	3,80745	17,3265	2,18608	-3,29131	0,000997215	0,0153278	yes
ANKIB1	groupXX:5978143-5999605	control	clone mix	4,04349	14,5311	1,84547	-3,75805	0,000171245	0,00360075	yes
ENTPD3	groupXX:6166088-6172879	control	clone mix	22,4886	39,6313	0,817447	-2,87198	0,00407909	0,0471366	yes
TRIO (2 of 2)	groupXX:6351291-6403828	control	clone mix	2,37201	6,97243	1,55555	-3,56195	0,000368112	0,00679078	yes
ENSGACG00000007488	groupXX:8584328-8661802	control	clone mix	1,02369	10,5875	3,37052	-2,94785	0,00319997	0,0389743	yes
PSENEN	groupXX:8918290-8920012	control	clone mix	308,684	98,1089	-1,65368	4,0903	4,31E-05	0,00113717	yes
C4A	groupXX:9276660-9289490	control	clone mix	26,6354	68,1728	1,35585	-10,5136	0	0	yes
PLEKHG4B	groupXX:9902093-9914812	control	clone mix	8,7622	25,6765	1,55109	-3,96078	7,47E-05	0,00180225	yes
ITGA8	groupXX:10123817-10154337	control	clone mix	1,43596	7,47198	2,37947	-3,44115	0,000579252	0,00984406	yes
ENSGACG00000008819	groupXX:10254331-10256022	control	clone mix	260,999	94,4748	-1,46604	4,73017	2,24E-06	9,32E-05	yes
ENSGACG00000008828	groupXX:10257430-10258487	control	clone mix	369,519	149,018	-1,31017	3,35651	0,000789336	0,0126709	yes
STEAP4 (1 of 2)	groupXX:10261385-10266895	control	clone mix	40,5019	103,354	1,35154	-3,43146	0,000600352	0,0101377	yes
ENSGACG00000009182	groupXX:10758439-10770927	control	clone mix	25,1083	44,373	0,821515	-3,48983	0,000483327	0,00849355	yes
CIC	groupXX:11098051-11122011	control	clone mix	6,04367	13,8041	1,1916	-2,93445	0,00334138	0,0403279	yes
ADAMTSL4	groupXX:12722863-12742296	control	clone mix	3,73904	12,6749	1,76124	-3,26506	0,00109442	0,0165317	yes
S100A10 (1 of 2)	groupXX:13023337-13025168	control	clone mix	4280,12	1198,14	-1,83685	4,49783	6,87E-06	0,000241116	yes
ECM1	groupXX:13363768-13368689	control	clone mix	160,539	467,69	1,54263	-2,9777	0,00290422	0,0361131	yes
ENSGACG00000012247	groupXX:13392709-13394056	control	clone mix	1411,59	554,912	-1,34699	2,97426	0,00293698	0,0364383	yes
ENSGACG00000012340	groupXX:13491914-13504065	control	clone mix	14,3678	38,8372	1,4346	-3,06698	0,00216232	0,0285647	yes
ENSGACG00000012358	groupXX:13555738-13560232	control	clone mix	3,34767	18,4076	2,45907	-2,88437	0,00392199	0,0457317	yes
NR1D2 (2 of 2)	groupXX:14965102-14970216	control	clone mix	20,0526	198,915	3,31029	-5,94139	2,83E-09	2,93E-07	yes
RGL2	groupXX:15483090-15493397	control	clone mix	30,2219	56,0066	0,890003	-3,28297	0,00102721	0,0157002	yes
ENSGACG00000013327	groupXX:16118213-16120496	control	clone mix	2,56854	19,6681	2,93684	-3,80779	0,000140216	0,00304868	yes
KLF6 (1 of 2)	groupXXI:1563701-1567341	control	clone mix	38,6488	127,676	1,72399	-4,15978	3,19E-05	0,000882841	yes
ARHGAP29 (1 of 2)	groupXXI:2152809-2178889	control	clone mix	3,99347	17,3425	2,11859	-4,54253	5,56E-06	0,000201563	yes
ENSGACG00000002069	groupXXI:2673131-2678178	control	clone mix	124,075	54,49	-1,18715	4,4365	9,14E-06	0,000307275	yes
ENSGACG00000002145	groupXXI:2929786-2939966	control	clone mix	9,95554	49,8943	2,3253	-5,33038	9,80E-08	6,36E-06	yes
TMEM14E	groupXXI:4277437-4288965	control	clone mix	244,655	85,81	-1,51153	3,38767	0,000704885	0,011559	yes
PHLDB2 (1 of 2)	groupXXI:4314153-4328506	control	clone mix	11,1183	23,7591	1,09554	-3,47547	0,000509968	0,00887444	yes
ZFHX4	groupXXI:4917562-4971561	control	clone mix	1,25363	4,85615	1,9537	-4,09676	4,19E-05	0,00111064	yes
ENSGACG00000002748	groupXXI:6564962-6566999	control	clone mix	301,209	132,536	-1,18438	3,08321	0,00204777	0,0273518	yes
ENSGACG00000002918	groupXXI:7252546-7262425	control	clone mix	114,227	5,96706	-4,25874	4,61208	3,99E-06	0,000152149	yes
FLT1	groupXXI:7519691-7540702	control	clone mix	2,54086	9,60671	1,91872	-3,44817	0,000564389	0,00963953	yes
CSTA	groupXXI:7812564-7814107	control	clone mix	988,767	268,35	-1,88151	4,45611	8,35E-06	0,000284492	yes
NKTR,ZBTB47	groupXXI:7897112-7924736	control	clone mix	18,8992	42,3814	1,16511	-3,39002	0,000698887	0,0114771	yes
ENSGACG00000003404	groupXXI:7946496-7947460	control	clone mix	80,7363	264,091	1,70974	-4,08215	4,46E-05	0,00117156	yes
ENSGACG00000003405	groupXXI:7957299-7958968	control	clone mix	202,803	645,079	1,6694	-3,62773	0,000285923	0,00550988	yes
ENSGACG00000003407	groupXXI:7959283-7960098	control	clone mix	79,4949	297,501	1,90396	-4,56409	5,02E-06	0,000184895	yes
ENSGACG00000003464	groupXXI:8029733-8038141	control	clone mix	3,94381	8,43699	1,09714	-2,99071	0,00278331	0,0348996	yes
CSRNP1 (1 of 2)	groupXXI:8204340-8207525	control	clone mix	8,10348	38,3436	2,24237	-4,01452	5,96E-05	0,00149236	yes
PLOD2	groupXXI:8463790-8480381	control	clone mix	3,96903	21,117	2,41154	-4,30017	1,71E-05	0,000521545	yes
SLC4A2 (3 of 3)	groupXXI:10036568-10048067	control	clone mix	1,31913	5,32123	2,01217	-3,13736	0,00170476	0,023608	yes
ENSGACG00000004694	groupXXI:10055259-10057489	control	clone mix	1726,76	520,978	-1,72877	3,39484	0,000686694	0,0113122	yes
ENSGACG00000004701	groupXXI:10060950-10061397	control	clone mix	4080,19	1263,5	-1,69121	3,26221	0,00110545	0,0166689	yes
CCR9 (1 of 2)	groupXXI:10240244-10243103	control	clone mix	15,7446	65,1434	2,04877	-4,54743	5,43E-06	0,000197722	yes
ARHGAP21 (1 of 2)	groupXXI:11154593-11179411	control	clone mix	4,03657	19,005	2,23518	-5,07121	3,95E-07	2,11E-05	yes
PHEX	groupXXI:11359655-11367398	control	clone mix	6,15391	21,2912	1,79068	-3,62216	0,000292157	0,00560992	yes
MLL3 (2 of 2)	groupXXI:11688412-11693239	control	clone mix	14,7083	37,8262	1,36276	-3,23293	0,00122525	0,0181125	yes
WAC (1 of 2)	groupXXI:557602-579035	control	clone mix	13,0304	25,4908	0,9681	-3,73702	0,000186217	0,00386105	yes
PRKDC	groupXXI:2122592-2149047	control	clone mix	5,5653	11,5522	1,05364	-4,34497	1,39E-05	0,000438873	yes
PIGN	groupXXI:5128904-5139108	control	clone mix	15,0444	30,1715	1,00396	-3,39393	0,000688971	0,0113429	yes
SULF1	groupXXI:7005038-7035292	control	clone mix	5,24042	13,6759	1,38388	-3,70759	0,000209242	0,00425412	yes
BDH1	groupXXI:8259729-8263422	control	clone mix	9,68039	22,6217	1,22457	-3,01857	0,00253973	0,0324632	yes
KIAA1217	groupXXI:8712803-8748141	control	clone mix	19,846	50,3573	1,34335	-3,35821	0,000784478	0,0126104	yes
ENSGACG00000004079	groupXXI:9448708-9457454	control	clone mix	1,42339	6,45474	2,18103	-3,37892	0,000727719	0,0118608	yes
ENSGACG00000004703	groupXXI:10062693-10063140	control	clone mix	1109,51	314,422	-1,81915	3,88848	0,000100876	0,00231751	yes
C8orf59	groupXXI:10873277-10876031	control	clone mix	273,524	75,6901	-1,85349	4,72217	2,33E-06	9,64E-05	yes
BAG6 (1 of 2)	scaffold_101:157721-177579	control	clone mix	8,76521	18,6433	1,0888	-4,51613	6,30E-06	0,000224148	yes
ENSGACG00000000026	scaffold_1045:507-2074	control	clone mix	9,16303	44,765	2,28847	-4,21643	2,48E-05	0,000716272	yes
ZHX2 (2 of 2)	scaffold_1093:2875-5646	control	clone mix	1,2017	7,40238	2,62291	-2,86218	0,00420733	0,0482935	yes
ENSGACG00000001460	scaffold_111:151644-153393	control	clone mix	576,997	178,944	-1,68906	4,41822	9,95E-06	0,000330203	yes
ENSGACG00000001482	scaffold_111:321300-322791	control	clone mix	6,61355	0	-1,80E+308	-1,80E+308	0,00293582	0,0364263	yes
ENSGACG00000000234,SULF2 (2 of 2)	scaffold_114:17898-109669	control	clone mix	17,9506	39,8303	1,14983	-2,89906	0,00374286	0,0440886	yes
ITPR3	scaffold_114:17898-109669	control	clone mix	10,7552	25,7721	1,26078	-3,29172	0,000995757	0,0153095	yes
XPO4 (1 of 2)	scaffold_115:238766-266229	control	clone mix	4,38895	9,7309	1,1487	-2,89437	0,00379923	0,0446058	yes
ENSGACG00000001633	scaffold_120:253515-254412	control	clone mix	105,49	38,1055	-1,46904	3,58558	0,000336324	0,00630341	yes
MEGF8	scaffold_122:271492-283730	control	clone mix	7,24866	17,2954	1,2546	-3,1546	0,00160718	0,0225158	yes
S100A1	scaffold_122:177845-178506	control	clone mix	52,1429	2,8253	-4,206	3,98945	6,62E-05	0,00162985	yes
ACTA2	scaffold_1221:1930-3677	control	clone mix	14,5299	59,8861	2,0432	-4,13315	3,58E-05	0,00097342	yes
LAMC2 (2 of 2)	scaffold_1238:2423-5362	control	clone mix	13,9464	39,9503	1,51831	-4,11463	3,88E-05	0,00104076	yes
RPL22L1	scaffold_126:56067-57459	control	clone mix	841,57	359,473	-1,2272	3,16398	0,00155627	0,0219441	yes
CCDC88C	scaffold_128:25971-57623	control	clone mix	1,6965	6,55664	1,9504	-3,68933	0,000224845	0,00451625	yes
ENSGACG00000001189	scaffold_129:225240-229140	control	clone mix	95,4213	36,647	-1,38062	3,40409	0,000663856	0,0110042	yes
ENSGACG00000001192	scaffold_129:231306-246036	control	clone mix	8,58006	19,9501	1,21734	-2,93412	0,00334491	0,0403607	yes
ENSGACG00000000336	scaffold_131:56852-59742	control	clone mix	646,991	391,739	-0,723854	3,95487	7,66E-05	0,00183993	yes
ENSGACG00000000350	scaffold_131:121398-126270	control	clone mix	1681,77	974,711	-0,786931	3,47238	0,000515865	0,00895946	yes
ENSGACG00000000454	scaffold_139:88571-93450	control	clone mix	213,547	105,051	-1,02347	3,93939	8,17E-05	0,00194183	yes
HM13	scaffold_139:208055-215446	control	clone mix	41,9936	84,3719	1,00659	-4,32504	1,53E-05	0,000474045	yes
UXT	scaffold_141:148094-151065	control	clone mix	64,3032	25,3497	-1,34292	2,97033	0,00297477	0,0368089	yes
ENSGACG00000001172	scaffold_146:208611-217838	control	clone mix	1,69201	10,9158	2,6896	-3,68061	0,000232674	0,00464711	yes
ENSGACG00000001072	scaffold_150:26204-28058	control	clone mix	375,707	157,63	-1,25306	3,168	0,00153492	0,0217041	yes
TG	scaffold_157:35547-44817	control	clone mix	3,25152	56,1049	4,10894	-7,88314	3,11E-15	1,26E-12	yes
PI4KA (1 of 2)	scaffold_168:79661-94659	control	clone mix	9,67655	22,5857	1,22285	-3,35455	0,000794936	0,0127443	yes
NCOA6	scaffold_180:18491-25815	control	clone mix	6,04059	14,0976	1,22269	-2,87383	0,00405525	0,0469265	yes
ENSGACG00000010501	scaffold_185:398-145602	control	clone mix	108,909	42,7858	-1,34792	5,92539	3,12E-09	3,19E-07	yes
USP24	scaffold_218:84-12453	control	clone mix	9,10009	23,0819	1,34281	-3,35477	0,000794312	0,0127364	yes
C3 (8 of 8)	scaffold_251:15264-34678	control	clone mix	1,66511	4,16296	1,32199	-3,0346	0,00240856	0,0311274	yes
ENSGACG00000001319	scaffold_252:3830-5766	control	clone mix	90,0239	32,7199	-1,46014	3,59636	0,000322702	0,006091	yes
ENSGACG00000001322	scaffold_252:26780-31802	control	clone mix	169,985	71,8107	-1,24313	3,22758	0,00124842	0,0183904	yes
SPCS1	scaffold_27:94456-102349	control	clone mix	259,224	78,938	-1,71541	4,38685	1,15E-05	0,000372934	yes
LRP1 (2 of 2)	scaffold_27:1422502-1481099	control	clone mix	7,02293	29,9547	2,09264	-5,45986	4,77E-08	3,40E-06	yes
ITPR1 (2 of 2)	scaffold_27:1551687-1602804	control	clone mix	3,70767	9,78359	1,39985	-3,50181	0,000462109	0,00818921	yes
VHL	scaffold_27:2069124-2074106	control	clone mix	149,368	63,0939	-1,24329	3,14694	0,00164989	0,0229999	yes
SPEN (2 of 2)	scaffold_27:3253869-3270341	control	clone mix	19,1029	51,7492	1,43775	-3,65263	0,000259569	0,00508737	yes
PLCH2 (2 of 2)	scaffold_27:3523388-3526548	control	clone mix	0	4,80513	1,80E+308	1,80E+308	0,000694546	0,0114191	yes
PTGIS (2 of 2)	scaffold_27:3833602-3840073	control	clone mix	38,8	135,602	1,80526	-4,24077	2,23E-05	0,000653444	yes
ENSGACG00000001373	scaffold_27:4038209-4076444	control	clone mix	3,2355	9,43296	1,54372	-3,07238	0,00212356	0,028159	yes
SFI1	scaffold_27:4277150-4279348	control	clone mix	12,1938	35,5807	1,54495	-2,95337	0,00314325	0,038429	yes
QRICH1 (2 of 2)	scaffold_27:4819143-4824917	control	clone mix	11,8327	25,0217	1,0804	-3,02099	0,00251949	0,032263	yes
PRELP	scaffold_27:771283-788095	control	clone mix	25,091	61,7658	1,29964	-3,17928	0,00147641	0,0210352	yes
ENSGACG00000000424	scaffold_27:865758-868515	control	clone mix	58,5751	15,8222	-1,88833	3,83622	0,000124943	0,00276941	yes
RARG (2 of 2)	scaffold_27:1324550-1336102	control	clone mix	10,5091	30,6558	1,54453	-3,30091	0,000963713	0,0149075	yes
PFDN5	scaffold_27:1763741-1766095	control	clone mix	357,326	137,776	-1,37492	4,33847	1,43E-05	0,0004501	yes
COL7A1	scaffold_27:2340498-2384651	control	clone mix	1,52174	5,64797	1,89201	-3,92439	8,70E-05	0,00204626	yes
RBM5 (2 of 2)	scaffold_27:2508687-2519971	control	clone mix	8,83977	19,4853	1,14031	-3,47148	0,000517604	0,00898436	yes
ENSGACG00000000989	scaffold_27:2855985-2857241	control	clone mix	56,5117	138,133	1,28943	-3,29165	0,000996015	0,0153126	yes
SRGAP3 (2 of 2)	scaffold_27:3808659-3830750	control	clone mix	13,3353	34,2368	1,36029	-3,43605	0,000590263	0,00999705	yes
FKBP5	scaffold_27:4190407-4197823	control	clone mix	21,4832	783,628	5,18889	-7,92822	2,22E-15	9,22E-13	yes
ITIH4 (1 of 2)	scaffold_27:4615559-4635531	control	clone mix	12,1613	1,81761	-2,74219	3,86923	0,000109181	0,00247491	yes
ITIH4 (2 of 2)	scaffold_27:4635810-4639569	control	clone mix	12,3906	1,3244	-3,22584	3,92295	8,75E-05	0,00205648	yes
RECK	scaffold_37:1661281-1683419	control	clone mix	4,25225	12,7749	1,58701	-3,01302	0,00258659	0,0329407	yes
AKAP13 (2 of 2)	scaffold_405:10130-17543	control	clone mix	11,9771	26,9985	1,1726	-2,87913	0,00398778	0,046319	yes
ENSGACG00000001749	scaffold_434:1322-4701	control	clone mix	2,47946	28,8905	3,5425	-4,76421	1,90E-06	8,07E-05	yes
ENSGACG00000000208	scaffold_459:10291-13858	control	clone mix	1,97336	23,5605	3,57764	-4,26429	2,01E-05	0,000598264	yes
MAP4K2	scaffold_47:802946-823637	control	clone mix	10,3164	27,0149	1,38881	-3,618	0,000296891	0,00568467	yes
KIAA1797	scaffold_47:1181029-1212465	control	clone mix	6,38206	17,6548	1,46796	-3,44891	0,000562849	0,00961892	yes
FREM1	scaffold_47:1338437-1369429	control	clone mix	5,41953	16,0828	1,56928	-3,84755	0,000119306	0,00266554	yes
BOLA2	scaffold_47:882355-883826	control	clone mix	138,438	36,3756	-1,9282	3,06173	0,00220062	0,0289595	yes
CYSLTR2	scaffold_475:5557-8755	control	clone mix	8,98739	25,6988	1,51573	-3,01249	0,00259113	0,0329859	yes
FOXK2 (2 of 2)	scaffold_48:12827-18103	control	clone mix	19,183	31,6273	0,726217	-3,22434	0,00126264	0,018559	yes
JMJD1C	scaffold_48:1393796-1410996	control	clone mix	3,06474	8,46488	1,46572	-3,33307	0,000858931	0,0135677	yes
RASGEF1B (1 of 2)	scaffold_520:3362-14763	control	clone mix	5,1296	21,8028	2,0876	-3,52285	0,000426936	0,00767428	yes
ENSGACG00000002243	scaffold_54:613382-625266	control	clone mix	9,6408	21,9682	1,18819	-4,37087	1,24E-05	0,000396793	yes
ENSGACG00000002354	scaffold_54:1145360-1175479	control	clone mix	19,4134	44,8471	1,20796	-4,19398	2,74E-05	0,000778378	yes
DOHH	scaffold_56:48535-54264	control	clone mix	50,0382	24,2157	-1,04709	3,1739	0,00150405	0,0213506	yes
RPA3	scaffold_58:498184-499671	control	clone mix	218,684	61,9646	-1,81933	4,2499	2,14E-05	0,000631588	yes
COL11A2	scaffold_58:671488-700824	control	clone mix	1,1952	5,8294	2,2861	-3,86664	0,000110345	0,00249726	yes
BRD2 (2 of 2)	scaffold_58:706702-713823	control	clone mix	30,7177	44,91	0,547968	-2,96432	0,00303351	0,0373808	yes
ENSGACG00000001671	scaffold_664:2105-3998	control	clone mix	22,6981	0,682917	-5,05472	3,92683	8,61E-05	0,00202884	yes
COL15A1 (2 of 2)	scaffold_67:182222-196648	control	clone mix	1,42727	6,02504	2,07771	-3,25408	0,00113761	0,0170612	yes
ENSGACG00000015110	scaffold_68:419739-424812	control	clone mix	65,3689	143,147	1,13082	-2,8609	0,00422439	0,0484471	yes
BMPR2 (2 of 2)	scaffold_69:420454-477489	control	clone mix	1,2747	6,03721	2,24372	-3,286	0,00101622	0,0155629	yes
ENSGACG00000000300	scaffold_69:420454-477489	control	clone mix	15,6926	51,3837	1,71123	-3,39633	0,000682956	0,0112614	yes
ENSGACG00000000272	scaffold_69:195180-196587	control	clone mix	48,5113	124,182	1,35607	-3,26507	0,00109438	0,0165313	yes
TTN	scaffold_69:196694-364852	control	clone mix	3,08155	11,1142	1,85068	-3,77256	0,000161578	0,00343055	yes
MYLK	scaffold_69:420454-477489	control	clone mix	6,77157	23,102	1,77046	-4,30861	1,64E-05	0,000505003	yes
PWP2	scaffold_74:217683-222805	control	clone mix	11,6103	22,7037	0,967521	-4,17608	2,97E-05	0,000831661	yes
COL18A1 (2 of 2)	scaffold_74:453920-469947	control	clone mix	5,24198	13,7704	1,39338	-3,19299	0,00140806	0,0202524	yes
COL5A2 (2 of 2)	scaffold_74:197752-208954	control	clone mix	3,04158	10,4706	1,78346	-3,77484	0,000160112	0,00340433	yes
SNRNP70	scaffold_80:215861-221505	control	clone mix	71,3972	194,204	1,44364	-7,23532	4,65E-13	1,25E-10	yes
C14orf49	scaffold_84:1059-21410	control	clone mix	6,71979	16,3026	1,27862	-3,42334	0,000618565	0,010388	yes
SLIRP	scaffold_84:150136-152155	control	clone mix	334,356	106,569	-1,64959	3,55712	0,000374937	0,00689572	yes
ENSGACG00000000849	scaffold_863:4798-7415	control	clone mix	1,56157	21,0583	3,75332	-4,04385	5,26E-05	0,00134414	yes
ENSGACG00000001847	scaffold_885:949-3566	control	clone mix	47,5218	7,30611	-2,70142	4,36909	1,25E-05	0,000399552	yes
CHD6	scaffold_89:332625-365722	control	clone mix	3,41718	8,97376	1,3929	-3,28578	0,00101702	0,0155732	yes
C7orf58	scaffold_90:318206-328447	control	clone mix	11,087	28,7321	1,37379	-3,08087	0,00206399	0,027523	yes
C7orf59	scaffold_90:398338-402304	control	clone mix	561,835	184,892	-1,60346	5,09735	3,44E-07	1,87E-05	yes
F3 (1 of 2)	scaffold_95:201021-206943	control	clone mix	96,9163	262,252	1,43614	-3,23887	0,00120005	0,0178116	yes
ENSGACG00000012655	scaffold_98:371515-372691	control	clone mix	103,496	210,671	1,02541	-4,3686	1,25E-05	0,000400306	yes
FBLN2 (1 of 2)	scaffold_99:147645-165013	control	clone mix	2,97256	16,4997	2,47266	-4,77208	1,82E-06	7,81E-05	yes
ENSGACG00000000063	scaffold_99:60462-72490	control	clone mix	4,7088	17,0073	1,85273	-3,90542	9,41E-05	0,00218509	yes