

Supplementary Table 6. Down regulated genes in 4 dpf zebrafish embryos at 4hpi with 100 nM recombinant human insulin

Gene	Gene Id	Fold change	p-value
AL929239.1	ENSDARG00000086813	-27.51246595	0.00028495
si:dkey-15j16.3	ENSDARG00000042683	-20.76014953	0.003436176
plek2	ENSDARG00000012789	-18.42858347	1.90E-12
or128-10	ENSDARG00000042810	-16.9051088	0.027433088
fosl1a	ENSDARG00000015355	-16.43305756	1.34E-14
irg1l	ENSDARG00000062788	-14.78051087	8.31E-124
si:dkeyp-80c12.8	ENSDARG00000094465	-13.38318227	2.91E-06
SI:DKEY-78K22.2	ENSDARG00000094743	-13.16757468	0.014532356
si:ch211-113a14.16	ENSDARG00000051734	-12.56817158	0.04455545
fos	ENSDARG00000031683	-12.53802021	7.04E-60
CU570881.1	ENSDARG00000078024	-12.368861	0.016055097
ftr19	ENSDARG00000052971	-12.33548394	0.020817272
si:ch211-112b1.2	ENSDARG00000096191	-12.15462134	0.002941059
il1b	ENSDARG00000005419	-11.68824126	2.72E-07
olfcjl	ENSDARG00000079954	-10.97190035	0.031055099
CABZ01090073.1	ENSDARG00000086271	-10.74550244	0.003785396
BX119915.1	ENSDARG00000068994	-10.61283449	0.038119079
si:ch211-261e11.2p	ENSDARG00000092527	-10.377171	0.042799584
ptgs2b	ENSDARG00000010276	-10.3319297	6.00E-15
il11b	ENSDARG00000058557	-10.32619847	1.34E-05
nr1d4b	ENSDARG00000059370	-10.29718896	4.78E-67
fosb	ENSDARG00000055751	-9.997776122	5.22E-31
excl-c1c	ENSDARG00000075045	-9.334452571	2.71E-05
BX908763.1	ENSDARG00000075965	-9.278311905	0.041070131
CR548631.2	ENSDARG00000055277	-9.008798658	0.007330774
CABZ01059421.2	ENSDARG00000095531	-8.841729851	0.014183557
BX005256.1	ENSDARG00000040284	-8.675101502	1.27E-06
ankrd22	ENSDARG00000002298	-8.588595792	3.42E-06
CU463855.1	ENSDARG00000088125	-8.446329125	0.010121776
atf3	ENSDARG00000007823	-8.442756339	4.08E-16
il11a	ENSDARG00000037859	-8.337664993	0.000173028
cfhl3	ENSDARG00000094661	-8.182879856	0.011504491
CU019646.2	ENSDARG00000091234	-8.107719572	6.66E-09
mmp13a	ENSDARG00000012395	-8.058049308	1.32E-11
CR547131.2	ENSDARG00000071143	-8.013841729	0.011411462
	ENSDARG00000089358	-7.717594617	2.92E-17
noxo1a	ENSDARG00000041294	-7.647156249	3.39E-18
si:ch211-253d24.2	ENSDARG00000094683	-7.618287207	0.000768204
si:dkey-11o15.9	ENSDARG00000095389	-7.514253175	0.028720048
wu:fe38f03	ENSDARG00000091313	-7.509724298	0.000244162
wu:fj08f03	ENSDARG00000077169	-7.446738903	6.81E-68
itln2	ENSDARG00000036084	-7.442115428	0.000791639
SI:DKEY-78K22.2	ENSDARG00000093949	-7.377933804	0.020127743
si:dkey-162h11.3	ENSDARG00000088432	-7.299435775	3.27E-58

	ENSDARG00000086785	-7.234658155	3.13E-08
si:ch211-241e1.4	ENSDARG00000094367	-7.171296633	1.41E-06
nr1d4a	ENSDARG00000031161	-7.0839312	1.16E-27
si:ch211-149p10.2	ENSDARG00000079553	-7.079185973	1.24E-06
si:ch211-113a14.12	ENSDARG00000077456	-7.076645307	0.000784756
CABZ01059421.1	ENSDARG00000091707	-7.068926296	4.98E-11
CABZ01072541.1	ENSDARG00000052400	-7.023589627	0.000384588
ABCC6 (3 of 3)	ENSDARG00000094901	-6.949827041	7.16E-37
RNaseP_nuc	ENSDARG00000084661	-6.876378038	0.007546296
	ENSDARG00000039547	-6.825647904	4.74E-17
ch25h	ENSDARG00000045190	-6.806630875	3.39E-06
fam169aa	ENSDARG00000059719	-6.799720812	1.52E-12
SNORD65	ENSDARG00000080775	-6.793343279	0.000118959
si:dkey-162h11.2	ENSDARG00000091715	-6.706156569	1.75E-22
si:dkey-31e10.5	ENSDARG00000067992	-6.693640246	0.003371884
rhcgl1	ENSDARG00000007080	-6.681054153	3.24E-10
BX571811.2	ENSDARG00000095082	-6.677968991	1.47E-09
cry3	ENSDARG00000024049	-6.630689049	9.77E-72
lepb	ENSDARG00000045548	-6.583510623	0.00293196
tnfb	ENSDARG00000013598	-6.579020272	0.002865749
EGR4 (1 of 2)	ENSDARG00000077799	-6.571274838	3.00E-05
si:ch211-287c11.3	ENSDARG00000092815	-6.517515662	0.037801748
si:ch211-237l4.9	ENSDARG00000094169	-6.49835495	3.92E-10
si:ch211-221n20.2	ENSDARG00000095671	-6.443562044	0.027333725
plac8.2	ENSDARG00000094438	-6.273622582	0.009811152
per1a	ENSDARG00000056885	-6.261862386	1.32E-53
CABZ01049362.1	ENSDARG00000073932	-6.229569738	4.85E-14
NPAS4 (3 of 3)	ENSDARG00000061920	-6.172034847	0.007175516
si:ch211-219a15.4	ENSDARG00000068951	-6.153576586	7.39E-06
lonrf11	ENSDARG00000078567	-6.139637941	4.16E-72
gpr84	ENSDARG00000077308	-6.089760867	1.12E-26
CABZ01100267.1	ENSDARG00000091691	-6.071910039	3.00E-26
chst8	ENSDARG00000044577	-6.00570681	7.57E-08
wu:fe38f03	ENSDARG00000090149	-5.974474443	0.000903651
CABZ01112149.1	ENSDARG00000004686	-5.95679111	0.000635738
CSF3	ENSDARG00000091078	-5.906503518	0.000200284
si:dkeyp-87e3.1	ENSDARG00000093888	-5.87588152	8.83E-08
thpo	ENSDARG00000079158	-5.823625636	0.039089318
si:dkey-182g1.8	ENSDARG00000093787	-5.797960902	0.009042205
rhcga	ENSDARG00000003203	-5.760800157	1.57E-12
si:dkey-102f14.7	ENSDARG00000092255	-5.648978206	0.003036877
dhrr13a.2	ENSDARG00000020978	-5.637617242	3.02E-56
zgc:113363	ENSDARG00000038382	-5.622174971	9.68E-31
CR352290.3	ENSDARG00000089592	-5.590870216	0.013505703
CABZ01065401.1	ENSDARG00000091759	-5.588817144	1.16E-06
	ENSDARG00000070289	-5.559219478	1.54E-09
CABZ01031627.5	ENSDARG00000089615	-5.556025259	0.001742011

npas4a	ENSDARG00000055752	-5.523146729	0.022413754
zgc:193706	ENSDARG00000070378	-5.478732679	0.045040362
ftr42	ENSDARG00000052564	-5.460853725	0.017604162
nfil3-2	ENSDARG00000043237	-5.408051976	2.10E-47
si:dkey-25e12.3	ENSDARG00000055365	-5.403220269	1.36E-10
eif4e1b	ENSDARG00000014565	-5.39215995	0.033388442
si:ch73-269m14.4	ENSDARG00000086612	-5.306493814	4.64E-06
LAMC2	ENSDARG00000068288	-5.255842253	1.08E-06
zgc:162509	ENSDARG00000070604	-5.245750608	2.39E-10
PMM1	ENSDARG00000038398	-5.244102564	6.52E-11
	ENSDARG00000089405	-5.206939365	3.33E-14
	ENSDARG00000074631	-5.187996279	0.044571189
si:ch211-241e1.3	ENSDARG00000022615	-5.18685165	1.21E-14
hcbst	ENSDARG00000092074	-5.159700954	7.77E-05
CABZ01087111.1	ENSDARG00000087923	-5.105738112	3.52E-11
si:dkey-18a10.3	ENSDARG00000090814	-5.084875455	6.19E-29
mmp9	ENSDARG00000042816	-5.07116561	9.49E-11
si:dkey-24n17.9	ENSDARG00000092775	-5.060672469	0.042200533
CABZ01065246.1	ENSDARG00000088253	-5.057968662	5.40E-05
per2	ENSDARG00000034503	-5.026310845	3.14E-61
	ENSDARG00000034203	-5.023518213	0.007285984
si:dkeyp-68a7.5	ENSDARG00000092615	-5.015533165	0.031236572
CABZ01071923.1	ENSDARG00000089599	-5.015008592	0.007430872
	ENSDARG00000004763	-5.003018093	2.32E-21
hsth11	ENSDARG00000035519	-4.986816233	6.96E-60
rorcb	ENSDARG00000017780	-4.955338697	6.15E-27
si:dkey-97i18.6	ENSDARG00000060792	-4.935724447	5.90E-06
PER2-2	ENSDARG00000078099	-4.930221064	1.34E-24
si:dkey-8o9.3	ENSDARG00000091432	-4.922690349	0.025558458
odc1	ENSDARG00000007377	-4.890786153	1.32E-42
si:ch211-235f1.3	ENSDARG00000095179	-4.859659126	0.001966302
GPR83	ENSDARG00000058120	-4.858550577	0.00514998
	ENSDARG00000070297	-4.846066689	0.000544715
zgc:173652	ENSDARG00000070280	-4.79395103	1.15E-07
HIST1H2BA	ENSDARG00000074491	-4.77216814	1.47E-30
nfil3-6	ENSDARG00000087188	-4.745715379	7.94E-16
CR457441.2	ENSDARG00000091847	-4.741648217	0.000499356
nfil3-5	ENSDARG00000094965	-4.735530583	1.59E-55
CABZ01044775.1	ENSDARG00000086430	-4.732182275	0.041948276
THAP9 (1 of 3)	ENSDARG00000088213	-4.730495133	0.015042968
FBXL3	ENSDARG00000037738	-4.714050699	6.26E-06
dusp5	ENSDARG00000019307	-4.705950045	1.15E-35
si:dkey-148f24.5	ENSDARG00000094148	-4.693960319	0.014372668
	ENSDARG00000087854	-4.690955475	7.01E-06
si:dkey-189j19.1	ENSDARG00000095632	-4.690018219	2.95E-07
gda	ENSDARG00000002986	-4.680188826	6.81E-14
cry1b	ENSDARG00000011583	-4.679796829	1.45E-44

CR388095.2	ENSDARG00000092149	-4.67881279	1.96E-07
CU302436.2	ENSDARG00000075508	-4.669082515	2.27E-05
BX247944.1	ENSDARG00000075631	-4.651772121	0.01465954
irak3	ENSDARG00000053131	-4.647801929	7.75E-05
si:ch211-131e11.16	ENSDARG00000091542	-4.628248727	4.54E-07
SI:DKEY-78K22.2	ENSDARG00000094090	-4.622450543	0.032054097
nr1d1	ENSDARG00000033160	-4.620040248	3.61E-51
CR762436.3	ENSDARG00000070254	-4.610596163	0.000749125
si:dkeyp-73c8.3	ENSDARG00000092829	-4.600547285	0.000247334
	ENSDARG00000089397	-4.597332115	3.36E-08
TRIM41	ENSDARG00000069563	-4.596108987	0.012406128
zgc:91849	ENSDARG00000014323	-4.584881857	8.01E-14
stk35	ENSDARG00000086899	-4.581922426	4.28E-24
npas4b	ENSDARG00000087753	-4.572318902	0.0082947
CABZ01065246.2	ENSDARG00000089734	-4.562093162	1.53E-08
	ENSDARG00000078941	-4.527594303	1.83E-05
si:dkey-58f10.12	ENSDARG00000092680	-4.51425127	0.001146302
CU633775.1	ENSDARG00000092584	-4.502408091	8.13E-19
ighv1-4	ENSDARG00000096301	-4.493204338	0.044065308
acsl4l	ENSDARG00000010752	-4.470920373	2.99E-10
CABZ01063077.1	ENSDARG00000089059	-4.469636851	0.000382546
zgc:173552	ENSDARG00000078294	-4.443443555	0.001250649
lpin1	ENSDARG00000020239	-4.440683924	2.00E-45
	ENSDARG00000078724	-4.417561242	3.44E-05
slc35e4	ENSDARG00000009459	-4.406143463	1.49E-19
zgc:153911	ENSDARG00000002509	-4.378342303	1.49E-14
ANGPT2	ENSDARG00000014946	-4.337880955	7.00E-06
BX936371.1	ENSDARG00000091087	-4.333040565	0.013509829
ZC2HC1C	ENSDARG00000070526	-4.330335144	0.000170221
si:dkey-111e8.2	ENSDARG00000093547	-4.324120863	0.020067063
PRRG3	ENSDARG00000079102	-4.32373503	1.39E-05
zbtb43	ENSDARG00000045983	-4.321115336	2.47E-07
si:dkey-242k1.4	ENSDARG00000092239	-4.301574054	3.09E-24
stard10	ENSDARG00000031929	-4.299120783	6.35E-30
CU306817.2	ENSDARG00000057903	-4.262882313	1.04E-21
BX005429.1	ENSDARG00000095688	-4.258721896	2.58E-05
si:dkey-85k15.7	ENSDARG00000094759	-4.232538703	0.00201804
cebpb	ENSDARG00000042725	-4.197795699	2.29E-13
GPR3	ENSDARG00000094860	-4.157820768	1.76E-07
tnfaip3	ENSDARG00000027777	-4.157579555	5.22E-14
CR753817.1	ENSDARG00000002508	-4.139426341	6.56E-08
	ENSDARG00000086672	-4.130567094	0.001815476
pfkfb3	ENSDARG00000001953	-4.105658267	6.52E-24
tlr4ba	ENSDARG00000019742	-4.103406543	0.002877218
CU278559.7	ENSDARG00000094234	-4.065320393	0.026991463
slc23a2	ENSDARG00000017365	-4.032068134	5.35E-15
C7 (1 of 2)	ENSDARG00000057121	-4.029579504	2.87E-05

	ENSDARG00000094744	-4.022273611	0.007279007
TNIP2	ENSDARG00000074501	-4.012013037	1.72E-05
LINGO3	ENSDARG00000067815	-4.007837009	3.61E-08
socs3a	ENSDARG00000025428	-4.006891237	4.50E-05
CABZ01002719.1	ENSDARG00000092688	-3.990807667	0.047546856
per1b	ENSDARG00000012499	-3.988105565	3.42E-45
SMU1 (2 of 2)	ENSDARG00000051970	-3.98068975	3.37E-15
AL954655.1	ENSDARG00000052626	-3.979200297	0.008498265
si:dkey-31f5.8	ENSDARG00000094428	-3.977894936	3.16E-09
CU855917.3	ENSDARG00000087422	-3.970129945	5.07E-11
tmem64	ENSDARG00000061723	-3.9689706	3.12E-15
stk35	ENSDARG00000086856	-3.965403519	1.70E-32
si:dkey-26i24.2	ENSDARG00000093140	-3.964198759	0.023708846
iqsec3b	ENSDARG00000093091	-3.930800234	5.91E-19
si:dkey-273g3.2	ENSDARG00000094591	-3.928179427	0.022271257
C19H1orf172 (2 of 2)	ENSDARG00000088588	-3.91832108	8.49E-09
si:ch73-77m20.2	ENSDARG00000092606	-3.912004535	4.08E-11
si:ch211-202m22.1	ENSDARG00000094491	-3.910473127	0.048428086
si:ch1073-35119.1	ENSDARG00000086331	-3.91009699	0.001320097
si:ch211-162i8.5	ENSDARG00000094222	-3.89772639	0.001037641
ush1g	ENSDARG00000076079	-3.896815838	0.009399173
ccrn4la	ENSDARG00000077726	-3.894941709	8.82E-29
LRRTM4 (1 of 4)	ENSDARG00000059535	-3.893035735	4.99E-05
KLHL38 (2 of 2)	ENSDARG00000040278	-3.89165974	7.10E-10
zgc:173552	ENSDARG00000091525	-3.886801965	0.001088438
CU638738.1	ENSDARG00000040135	-3.8852377	1.38E-05
si:ch211-93g23.3	ENSDARG00000096530	-3.882123045	0.012912549
junbb	ENSDARG00000088371	-3.87353901	9.26E-22
slc16a6b	ENSDARG00000060246	-3.8721991	8.98E-43
CABZ01090124.1	ENSDARG00000087877	-3.871310643	0.008792532
per3	ENSDARG00000010519	-3.865763027	1.01E-41
dsg2	ENSDARG00000076945	-3.849768362	3.97E-18
CABZ01071530.1	ENSDARG00000086101	-3.848226314	0.00167735
junba	ENSDARG00000074378	-3.841709228	3.87E-07
EGFR (1 of 4)	ENSDARG00000088866	-3.838514581	0.00284435
si:ch73-191k20.1	ENSDARG00000094298	-3.837793208	0.009028701
zgc:173552	ENSDARG00000070287	-3.83152807	0.000403887
si:dkey-16p19.10	ENSDARG00000094459	-3.828941895	0.001894556
si:dkey-179k24.3	ENSDARG00000094789	-3.824800924	0.004556022
si:dkey-156m2.3	ENSDARG00000079433	-3.814607039	0.038301954
CABZ01006980.1	ENSDARG00000088913	-3.813942845	0.001798767
cldnb	ENSDARG00000009544	-3.811442233	5.36E-10
IER2	ENSDARG00000086881	-3.808764962	1.83E-13
si:ch211-181d7.3	ENSDARG00000068621	-3.808621732	0.005492148
st8sia3	ENSDARG00000045301	-3.783078008	4.24E-09
GRAMD2 (2 of 2)	ENSDARG00000089322	-3.780036451	4.79E-20

GPBAR1 (2 of 2)	ENSDARG00000092148	-3.774337981	0.004065889
mmd2b	ENSDARG00000089090	-3.758790129	9.49E-06
ZNFX1	ENSDARG00000074028	-3.741734843	2.32E-07
CU694757.1	ENSDARG00000035765	-3.739699735	1.80E-05
VDR (1 of 2)	ENSDARG00000043059	-3.732015692	1.14E-08
zgc:100868	ENSDARG00000004748	-3.712328743	4.27E-42
ATXN1L	ENSDARG00000086977	-3.708340405	8.69E-06
guca1a	ENSDARG00000010454	-3.70378654	0.000223917
polr3g	ENSDARG00000024687	-3.703244491	0.037768445
vax2	ENSDARG00000058702	-3.699695525	3.38E-05
si:ch211-121j5.4	ENSDARG00000092835	-3.69122466	0.011836315
phox2ba	ENSDARG00000075330	-3.688143366	0.00970851
	ENSDARG00000086591	-3.686215161	0.000422346
URGCP (2 of 3)	ENSDARG00000036767	-3.686006993	3.42E-20
abcd1	ENSDARG00000074876	-3.679311627	4.89E-10
fbxo32	ENSDARG00000040277	-3.67356499	9.06E-16
	ENSDARG00000091066	-3.643633761	1.53E-10
BX640547.1	ENSDARG00000091622	-3.639182246	0.001467226
CABZ01067072.1	ENSDARG00000086721	-3.633087626	3.01E-12
si:dkeyp-66d1.2	ENSDARG00000054170	-3.62847278	6.45E-07
si:ch211-57m13.15	ENSDARG00000095948	-3.625892286	0.01105966
si:dkey-118k5.3	ENSDARG00000087736	-3.615610652	8.71E-06
CELF5 (3 of 3)	ENSDARG00000090727	-3.614091284	2.90E-07
si:dkey-9i5.4	ENSDARG00000096171	-3.605952259	6.05E-05
BX294383.2	ENSDARG00000086683	-3.605930769	0.002527273
si:ch211-42i9.4	ENSDARG00000094729	-3.597785567	0.000187311
plekhn1	ENSDARG00000087844	-3.595477752	2.26E-12
arrdc3b	ENSDARG00000036028	-3.579246788	6.04E-39
slc16a9b	ENSDARG00000005947	-3.576317492	7.83E-37
si:dkey-258f14.2	ENSDARG00000094874	-3.570668279	5.95E-28
mxe	ENSDARG00000014427	-3.564877355	0.003489142
zgc:152968	ENSDARG00000037002	-3.564772446	0.037055803
C19H1orf51 (1 of 2)	ENSDARG00000058094	-3.561837129	3.02E-37
si:ch73-6k14.2	ENSDARG00000096031	-3.559038813	2.90E-09
si:dkey-16b10.1	ENSDARG00000096500	-3.547787957	0.001241757
irg1	ENSDARG00000069844	-3.542766061	5.40E-15
CR318595.2	ENSDARG00000069362	-3.537313879	1.26E-14
si:dkey-31e10.6	ENSDARG00000096564	-3.52974273	9.42E-10
ATP13A3	ENSDARG00000043018	-3.513241481	0.006074865
CR450686.1	ENSDARG00000077415	-3.506323531	0.029937928
	ENSDARG00000077217	-3.501646607	1.39E-20
CR762483.1	ENSDARG00000074487	-3.499698643	0.002528519
CABZ01092745.1	ENSDARG00000087568	-3.493051051	0.001448631
IL34 (1 of 2)	ENSDARG00000091003	-3.489254621	2.63E-06
CR847523.1	ENSDARG00000044353	-3.485007942	0.004630509
f3b	ENSDARG00000005673	-3.478143983	3.56E-17

saa	ENSDARG00000045999	-3.477436202	0.014287052
si:dkey-247i3.4	ENSDARG00000086449	-3.472766828	0.00039532
CR382294.1	ENSDARG00000093254	-3.468503326	0.048078766
KCNA1 (1 of 2)	ENSDARG00000017108	-3.468377015	4.22E-05
mafk	ENSDARG00000033709	-3.467713331	1.13E-12
si:ch211-131e11.14	ENSDARG00000052582	-3.452832593	0.000500465
CCL20 (2 of 2)	ENSDARG00000093754	-3.432304494	0.036219363
si:ch211-213i16.3	ENSDARG00000094104	-3.430204681	0.003652976
CU464087.2	ENSDARG00000089319	-3.428901197	1.25E-05
zgc:114037	ENSDARG00000086546	-3.428121462	0.011774462
f2r11.2	ENSDARG00000077540	-3.417551117	1.02E-12
C2H19orf26 (2 of 2)	ENSDARG00000089348	-3.412737322	1.12E-07
ptgs2a	ENSDARG00000004539	-3.410171967	2.84E-16
CABZ01071530.2	ENSDARG00000086531	-3.392181195	0.00102638
aqp4	ENSDARG00000010565	-3.389473143	1.03E-06
trib1	ENSDARG00000076142	-3.389008433	1.18E-11
bcl3	ENSDARG00000087832	-3.388795284	3.38E-06
AL844186.1	ENSDARG00000042370	-3.377986966	0.000493029
elfn2	ENSDARG00000077609	-3.376953411	1.39E-06
si:ch211-194h1.2	ENSDARG00000096199	-3.374900804	0.018830929
	ENSDARG00000075482	-3.373879231	3.53E-07
casp8l2	ENSDARG00000070272	-3.373316445	2.53E-11
USP53 (1 of 2)	ENSDARG00000078615	-3.371112198	1.72E-10
ube2d4	ENSDARG00000015057	-3.369986837	2.78E-10
si:ch211-161h7.5	ENSDARG00000093044	-3.362757185	9.82E-27
bin2b	ENSDARG00000010255	-3.345966109	3.66E-19
	ENSDARG00000069046	-3.337636781	7.65E-05
si:ch1073-228p2.2	ENSDARG00000095908	-3.333332345	0.001431728
XRG5	ENSDARG00000057155	-3.317284729	1.31E-10
si:ch211-181d7.1	ENSDARG00000088274	-3.304662772	0.000675934
si:ch73-362m14.3	ENSDARG00000060400	-3.304497433	0.001985658
CABZ01073306.1	ENSDARG00000087902	-3.296227356	0.000359316
gadd45bb	ENSDARG00000013576	-3.282407745	1.38E-06
pglyrp5	ENSDARG00000068382	-3.280842736	2.27E-05
abca1a	ENSDARG00000074635	-3.27844151	7.08E-36
pho	ENSDARG00000035133	-3.274557876	4.42E-07
si:dkey-122c11.6	ENSDARG00000087510	-3.27324235	0.000595592
jdp2	ENSDARG00000020133	-3.257786384	8.92E-05
CABZ01044346.1	ENSDARG00000074439	-3.254226928	1.85E-11
cyp17a2	ENSDARG00000053966	-3.254020338	0.000122002
irf1b	ENSDARG00000032768	-3.252047432	0.002668086
ponzr2	ENSDARG00000088539	-3.242892227	1.87E-06
si:dkey-179k24.6	ENSDARG00000093296	-3.238837391	9.68E-05
rnaset2l	ENSDARG00000058413	-3.238301756	0.045458487
slc7a4	ENSDARG00000068286	-3.23818102	2.32E-13
si:ch211-141e20.6	ENSDARG00000091958	-3.236584432	0.028665648

si:dkey-204h11.10	ENSDARG00000095374	-3.234253919	0.022914472
si:ch211-163f10.4	ENSDARG00000095840	-3.223177654	0.005416724
si:dkey-40n15.1	ENSDARG00000096157	-3.220827302	0.007780227
si:dkey-246j6.2	ENSDARG00000090316	-3.213988244	0.041808158
si:dkey-148e22.3	ENSDARG00000092641	-3.210219136	0.011663745
samd7	ENSDARG00000060354	-3.207600664	9.62E-19
C5H8orf4 (1 of 2)	ENSDARG00000079497	-3.202792844	4.84E-26
ERRFI1 (2 of 2)	ENSDARG00000086098	-3.202681409	7.04E-12
si:dkey-14o18.7	ENSDARG00000094748	-3.192499974	0.00098935
hsd17b12a	ENSDARG00000015709	-3.183744921	1.14E-29
si:dkeyp-82b4.3	ENSDARG00000073760	-3.177371066	0.002515846
SI:DKEY-78K22.2	ENSDARG00000088653	-3.175692499	0.009226906
C22H19orf26 (1 of 2)	ENSDARG00000071325	-3.175225229	1.81E-17
ripk2	ENSDARG00000033713	-3.171620625	2.49E-14
slc6a8	ENSDARG00000043646	-3.168882359	1.21E-21
xirp2b	ENSDARG00000091090	-3.165948437	1.57E-25
	ENSDARG00000086751	-3.164382281	1.66E-05
nsmfa	ENSDARG00000060025	-3.155959226	6.00E-13
g6pcb	ENSDARG00000014967	-3.149890569	0.029038987
AL935186.4	ENSDARG00000085168	-3.142681323	0.002852531
si:ch211-181p13.2	ENSDARG00000094140	-3.140314845	0.008500511
CU278559.6	ENSDARG00000091250	-3.136578843	0.017830803
zgc:153258	ENSDARG00000076839	-3.11894365	6.37E-22
FAM46D	ENSDARG00000062830	-3.117930149	0.001215197
palm3	ENSDARG00000071215	-3.11679155	1.26E-32
wu:fe38f03	ENSDARG00000075366	-3.116781533	0.047595938
zgc:174917	ENSDARG00000073820	-3.108447324	0.000835106
KIRREL3	ENSDARG00000060939	-3.105177846	8.20E-12
sgk1	ENSDARG00000025522	-3.099561511	1.12E-24
CU302436.4	ENSDARG00000091905	-3.097301084	0.00101211
rpgra	ENSDARG00000056617	-3.091427984	5.43E-08
FAIM2	ENSDARG00000039444	-3.090418209	5.36E-12
elov11a	ENSDARG00000002412	-3.088763731	3.33E-21
CABZ01089980.1	ENSDARG00000088022	-3.073455059	0.036858168
wu:fe38f03	ENSDARG00000088420	-3.07290973	0.022376074
GPR116 (3 of 6)	ENSDARG00000086445	-3.071515569	8.71E-06
jund	ENSDARG00000067850	-3.071246567	3.41E-13
DIRAS2	ENSDARG00000086902	-3.06976182	0.00380501
CABZ01027552.1	ENSDARG00000086196	-3.067455715	1.30E-06
PRTG (1 of 2)	ENSDARG00000059269	-3.064733808	0.000444924
rtn4rl2a	ENSDARG00000052012	-3.061097096	0.043134472
sgk2b	ENSDARG00000006598	-3.061052618	1.47E-17
CABZ01020840.1	ENSDARG00000090401	-3.056881307	0.000562031
FILIP1 (2 of 2)	ENSDARG00000078419	-3.055913689	0.001464907
si:dkey-71h2.4	ENSDARG00000096511	-3.053482233	0.012201169
hamp1	ENSDARG00000053227	-3.050671858	0.005235601

si:dkey-211i20.3	ENSDARG00000091693	-3.047164145	0.002030855
HIST2H3D	ENSDARG00000094154	-3.043875975	2.02E-05
npas2	ENSDARG00000016536	-3.041302511	7.90E-14
MTSS1L (1 of 2)	ENSDARG00000087260	-3.039000111	1.03E-13
si:ch211-122i24.4	ENSDARG00000090873	-3.024142435	3.76E-06
serpine1	ENSDARG00000056795	-3.022193784	0.000130156
IL34 (2 of 2)	ENSDARG00000069128	-3.019460061	0.001962515
pdk2	ENSDARG00000059054	-3.01642383	2.32E-07
si:dkey-216e24.5	ENSDARG00000094401	-3.012936252	0.018549468
mst1ra	ENSDARG00000060235	-3.011799804	8.70E-19
dbpb	ENSDARG00000057652	-3.00939477	5.46E-24
SLC19A2	ENSDARG00000059712	-3.006707758	4.09E-06
zgc:66024	ENSDARG00000068840	-3.006414328	0.045350153
BX511263.1	ENSDARG00000075397	-3.006344028	7.77E-13
si:ch211-14a11.1	ENSDARG00000095420	-2.998496557	0.008090679
cyp24a1	ENSDARG00000070420	-2.992445427	9.31E-10
dlgap1b	ENSDARG00000037415	-2.983032362	7.09E-09
ppm1na	ENSDARG00000010231	-2.980904388	2.66E-09
tnfrsf9a	ENSDARG00000060498	-2.979337524	9.13E-14
zgc:113263	ENSDARG00000045842	-2.979209915	7.11E-21
ggt1a	ENSDARG00000023526	-2.970014734	2.57E-06
CABZ01048956.1	ENSDARG00000089465	-2.969499546	2.89E-09
MAP1A (1 of 2)	ENSDARG00000022045	-2.967103117	3.84E-18
si:dkey-217f16.3	ENSDARG00000052873	-2.966881806	1.17E-06
SI:DKEY-78K22.2	ENSDARG00000090743	-2.952781871	0.018490918
	ENSDARG00000051778	-2.952753852	0.013957462
si:ch211-155i14.1	ENSDARG00000070757	-2.952416245	8.03E-05
GUCY1A2	ENSDARG00000091053	-2.952269434	0.002621491
AL935186.3	ENSDARG00000085067	-2.946168733	0.012358659
	ENSDARG00000088912	-2.944234432	2.59E-05
slc25a37	ENSDARG00000073743	-2.938185804	5.98E-05
SLC7A3 (2 of 2)	ENSDARG00000061566	-2.938164409	7.80E-12
ptgis	ENSDARG00000060094	-2.937782834	2.12E-06
CR382327.4	ENSDARG00000088739	-2.932971899	0.0455693
CABZ01064069.1	ENSDARG00000088064	-2.932140487	0.004680224
lrrc66	ENSDARG00000093370	-2.927540071	0.023329908
maccl1	ENSDARG00000040717	-2.925126799	1.72E-11
CELF5 (2 of 3)	ENSDARG00000086155	-2.924867703	0.000362037
STYK1 (1 of 2)	ENSDARG00000070950	-2.923035439	0.000197682
alox5ap	ENSDARG00000054755	-2.918766373	0.000629043
bzw1b	ENSDARG00000034961	-2.918685666	5.72E-22
CABZ01083827.1	ENSDARG00000061753	-2.903931837	5.53E-05
ghsrb	ENSDARG00000057117	-2.903368978	0.046844887
si:dkey-61d19.4	ENSDARG00000092084	-2.896687103	1.24E-11
si:ch211-158d24.4	ENSDARG00000093048	-2.894943512	0.000594557
si:ch211-163g19.2	ENSDARG00000095555	-2.891746327	0.013909261
tagapa	ENSDARG00000002353	-2.891240829	2.70E-05

CABZ01081674.1	ENSDARG00000077989	-2.890130474	0.04817985
ucp3	ENSDARG00000091209	-2.888876236	5.66E-09
NAV1 (2 of 3)	ENSDARG00000058771	-2.883432346	4.79E-12
tbx16	ENSDARG00000007329	-2.881953193	0.000330525
SI:CH73-212J7.3	ENSDARG00000096613	-2.881557406	0.000534452
MAL (3 of 3)	ENSDARG00000070401	-2.880286257	0.000387808
dusp4	ENSDARG00000044688	-2.878575415	1.65E-19
si:ch211-286e11.3	ENSDARG00000094260	-2.876972736	0.027675821
BX321870.1	ENSDARG00000086984	-2.872881417	0.017274723
BX323023.2	ENSDARG00000095088	-2.868221641	0.004960799
	ENSDARG00000091728	-2.861816235	6.45E-10
foxo1b	ENSDARG00000061549	-2.853945291	0.001060922
LPHN1 (1 of 4)	ENSDARG00000089292	-2.852047795	1.74E-12
AL935186.6	ENSDARG00000088951	-2.848585103	0.012823433
FAM78B (1 of 2)	ENSDARG00000062889	-2.847626641	2.92E-05
si:dkey-246j6.3	ENSDARG00000096113	-2.845186338	0.000125179
slc16a9a	ENSDARG00000013926	-2.841037452	6.97E-08
si:dkeyp-101e12.1	ENSDARG00000067688	-2.840300468	0.00595823
SI:DKEY-78K22.2	ENSDARG00000093160	-2.83861948	0.033104671
PDE2A (3 of 3)	ENSDARG00000089605	-2.83837498	0.003244652
LYVE1 (1 of 2)	ENSDARG00000075833	-2.837132762	5.96E-12
FOXO1 (3 of 3)	ENSDARG00000088879	-2.835234148	4.56E-06
fndc5b	ENSDARG00000035895	-2.834432979	1.10E-11
	ENSDARG00000074362	-2.832335863	0.004699398
si:ch73-239k17.1	ENSDARG00000092277	-2.830654448	0.013492617
fam219a	ENSDARG00000016396	-2.828698418	1.77E-12
klf9	ENSDARG00000068194	-2.82718611	9.40E-07
abhd2a	ENSDARG00000025797	-2.824891042	3.81E-05
lifra	ENSDARG00000042909	-2.822368359	1.43E-15
rhpn2	ENSDARG00000014577	-2.821093654	4.26E-23
PXN (3 of 3)	ENSDARG00000060766	-2.813909348	7.39E-16
zgc:136895	ENSDARG00000054418	-2.812568462	0.010984842
si:dkey-29p23.2	ENSDARG00000096166	-2.812350482	0.010986057
si:dkey-246i21.1	ENSDARG00000093492	-2.811349073	0.028535214
si:dkey-115f9.2	ENSDARG00000093427	-2.808343413	0.00478995
rxrab	ENSDARG00000035127	-2.808208726	6.29E-07
si:ch211-145h19.4	ENSDARG00000096006	-2.804429787	0.034855904
si:ch211-202h22.7	ENSDARG00000073912	-2.803094092	4.96E-05
prelid1b	ENSDARG00000044169	-2.801452698	5.55E-13
sb:cb252	ENSDARG00000058206	-2.801172066	2.41E-26
CU896691.1	ENSDARG00000043033	-2.796614064	0.022448117
itgb4	ENSDARG00000028507	-2.796190717	5.86E-26
arg2	ENSDARG00000039269	-2.788423518	3.90E-12
scn4ba	ENSDARG00000062416	-2.787220457	2.52E-09
nfe2l1a	ENSDARG00000030616	-2.787004348	4.04E-10
cnga3b	ENSDARG00000012297	-2.784578044	1.80E-10
stk35l	ENSDARG00000057497	-2.780014617	3.16E-13

MGAT5B (1 of 2)	ENSDARG00000087086	-2.779078065	5.74E-06
arrdc3a	ENSDARG00000052690	-2.778814145	1.47E-23
ATP10A	ENSDARG00000076230	-2.774257954	1.00E-07
lox12a	ENSDARG00000044010	-2.772053964	2.39E-11
si:ch211-149k23.9	ENSDARG00000038052	-2.771163843	0.000923844
C19H18orf21 (2 of 2)	ENSDARG00000077407	-2.770187712	3.62E-05
si:dkeyp-77c8.3	ENSDARG00000092369	-2.768334925	0.00175473
fkbp5	ENSDARG00000028396	-2.76691274	1.88E-11
mcoln1	ENSDARG00000002285	-2.766256885	2.28E-22
FP326669.1	ENSDARG00000089685	-2.760914341	0.033617104
CABZ01040055.1	ENSDARG00000086869	-2.760224252	0.003893426
si:ch211-229o8.4	ENSDARG00000096295	-2.757988077	0.013289132
si:ch211-187d1.3	ENSDARG00000096029	-2.753258143	0.040117217
slc30a2	ENSDARG00000021305	-2.753254478	2.44E-05
SBNO2 (3 of 3)	ENSDARG00000094178	-2.75216225	3.45E-10
ARHGAP44 (1 of 2)	ENSDARG00000010433	-2.749161227	1.47E-10
nfkbiaa	ENSDARG00000005481	-2.742623796	1.58E-08
cry-dash	ENSDARG00000002396	-2.742593941	4.55E-22
prlr	ENSDARG00000045955	-2.740605029	2.53E-09
5S_rRNA	ENSDARG00000084800	-2.736459801	0.041844768
fam83h	ENSDARG00000068849	-2.731273464	1.67E-21
mfsd2ab	ENSDARG00000035909	-2.727608874	2.15E-14
vdrb	ENSDARG00000070721	-2.726667034	3.37E-13
inpp5jb	ENSDARG00000093359	-2.72147923	1.35E-09
C11H1orf106 (2 of 2)	ENSDARG00000070571	-2.720561744	7.94E-10
zgc:158343	ENSDARG00000059679	-2.719518823	0.000518519
si:ch211-161m3.1	ENSDARG00000091991	-2.716848812	0.035013785
	ENSDARG00000088259	-2.716137898	0.034482003
	ENSDARG00000089039	-2.708576864	0.022315762
si:ch211-153j24.3	ENSDARG00000068428	-2.707858868	0.000100413
h1fx	ENSDARG00000054058	-2.707441364	1.31E-12
si:dkeyp-69b9.4	ENSDARG00000093806	-2.705539312	3.22E-05
zgc:174649	ENSDARG00000074907	-2.704955275	0.007318317
tmem184b	ENSDARG00000091956	-2.703026099	4.78E-12
panx2	ENSDARG00000063019	-2.700251058	6.79E-12
GRB7	ENSDARG00000042726	-2.699279096	5.42E-08
sele	ENSDARG00000009123	-2.6939203	0.003138935
znf704	ENSDARG00000061718	-2.693289638	1.36E-07
mboat2a	ENSDARG00000031845	-2.690024367	3.59E-08
trim35-31	ENSDARG00000052097	-2.689134116	0.040702355
FAM135B	ENSDARG00000079899	-2.686403787	6.97E-12
plxnb2b	ENSDARG00000036985	-2.668726056	3.69E-10
BX470141.1	ENSDARG00000061710	-2.661603697	0.029734674
si:ch73-387e10.3	ENSDARG00000078095	-2.661288937	1.53E-11
samsn1b	ENSDARG00000078647	-2.66038719	5.60E-12

SGSM1 (2 of 2)	ENSDARG00000028857	-2.660036105	1.26E-07
slc1a7a	ENSDARG00000034940	-2.657170235	6.36E-08
HDAC7 (2 of 2)	ENSDARG00000073850	-2.656142137	0.000440425
matk	ENSDARG00000074670	-2.655165922	0.020854169
si:ch211-152p11.4	ENSDARG00000079705	-2.653580952	2.81E-09
ALPK1	ENSDARG00000059741	-2.64961925	2.96E-18
DLGAP2 (2 of 3)	ENSDARG00000076070	-2.648760005	0.002474523
h1f0	ENSDARG00000038559	-2.648694245	8.64E-26
si:ch211-71k14.1	ENSDARG00000087061	-2.645192851	0.000402241
ALOX5 (4 of 4)	ENSDARG00000043089	-2.641763045	0.000420515
slc25a29	ENSDARG00000057352	-2.641435807	1.01E-09
zgc:153932	ENSDARG00000052779	-2.63790652	3.52E-06
si:dkey-117m1.3	ENSDARG00000074662	-2.636187876	2.48E-07
5S_rRNA	ENSDARG00000084562	-2.631782187	0.017276755
BX005368.2	ENSDARG00000091716	-2.631086029	4.00E-05
adora2b	ENSDARG00000002533	-2.62992501	4.27E-05
gabbr1a	ENSDARG00000018967	-2.626619095	1.71E-08
adarb1b	ENSDARG00000003544	-2.624816889	2.84E-14
CU469544.1	ENSDARG00000035852	-2.621520046	0.000134793
CABZ01057633.1	ENSDARG00000087353	-2.621411439	0.005261461
slc7a1	ENSDARG00000016439	-2.620445696	3.21E-15
tuft1a	ENSDARG00000061242	-2.620130495	7.57E-09
si:dkey-202i12.5	ENSDARG00000094396	-2.615085125	0.008472879
tnfaip2b	ENSDARG00000094072	-2.614319269	0.012477434
	ENSDARG00000076622	-2.614295585	4.32E-08
SH3GL2 (1 of 2)	ENSDARG00000039901	-2.611332163	0.000169609
lrrc8db	ENSDARG00000044146	-2.609773216	1.30E-17
BX897720.4	ENSDARG00000092994	-2.606922968	0.00614193
	ENSDARG00000079909	-2.604538748	4.75E-05
si:ch211-242e8.1	ENSDARG00000069038	-2.603746379	3.68E-11
FP236162.1	ENSDARG00000089438	-2.596900028	3.25E-10
IRS2	ENSDARG00000037099	-2.596761603	2.26E-10
CABZ01060681.1	ENSDARG00000087406	-2.592482023	9.24E-05
srebfl	ENSDARG00000067607	-2.590827881	4.02E-19
CABZ01048958.1	ENSDARG00000078617	-2.590415213	0.013221939
BAIAP2 (2 of 2)	ENSDARG00000060587	-2.588429116	1.48E-12
si:dkey-220o21.1	ENSDARG00000092153	-2.588257259	0.016142665
si:ch211-192f15.3	ENSDARG00000093331	-2.588183763	0.00249037
NACC1	ENSDARG00000078238	-2.587217037	0.023967645
si:ch211-286b5.2	ENSDARG00000096514	-2.586189807	0.032802636
USP2 (2 of 3)	ENSDARG00000087495	-2.585079567	6.56E-09
CT573787.1	ENSDARG00000059103	-2.581830048	0.00863717
CU694374.2	ENSDARG00000091970	-2.581453834	0.023885338
CT955963.1	ENSDARG00000038568	-2.577391108	0.002675242
si:ch211-132b12.7	ENSDARG00000068374	-2.573665769	2.44E-20
ACER2	ENSDARG00000077782	-2.571776105	1.63E-06
si:dkeyp-2c8.3	ENSDARG00000093811	-2.571593317	0.017853112

si:ch211-51a19.5	ENSDARG00000094668	-2.56762145	0.005361724
CT867948.1	ENSDARG00000077001	-2.566181791	4.63E-05
RALGDS (2 of 3)	ENSDARG00000042409	-2.56616734	2.07E-17
slc9a3.1	ENSDARG00000058498	-2.56409573	2.86E-13
MYPN	ENSDARG00000076485	-2.563952375	1.91E-10
cldnc	ENSDARG00000015955	-2.561537906	7.11E-08
si:ch211-66k16.27	ENSDARG00000091280	-2.56146939	0.000130806
si:ch73-94k4.3	ENSDARG00000096671	-2.558515913	0.012745982
BX908796.1	ENSDARG00000055683	-2.55619864	0.024335294
SAMD4A	ENSDARG00000075759	-2.555128006	9.23E-17
SH2D2A	ENSDARG00000089983	-2.553712593	0.033638586
CABZ01057013.1	ENSDARG00000089038	-2.55022072	5.16E-17
mgea5	ENSDARG00000074686	-2.548904296	4.87E-24
ntrk3a	ENSDARG00000077228	-2.54713686	7.28E-09
C25H19orf40	ENSDARG00000051731	-2.545795011	0.012529283
FNDC7 (3 of 7)	ENSDARG00000092552	-2.543183912	0.046119678
arhgef15	ENSDARG00000059742	-2.539042531	0.026109356
sdc4	ENSDARG00000059906	-2.536430215	2.50E-09
BX004880.1	ENSDARG00000062913	-2.536318103	5.42E-07
si:dkey-93m18.6	ENSDARG00000093173	-2.534006478	0.024069137
TEAD1 (2 of 2)	ENSDARG00000087397	-2.532012709	5.12E-06
BX855590.1	ENSDARG00000023991	-2.528569664	0.018287471
CRTC1 (1 of 2)	ENSDARG00000076068	-2.527369058	3.05E-08
SI:DKEY-78K22.2	ENSDARG00000088523	-2.526015616	0.002584903
SBNO1	ENSDARG00000087600	-2.523979275	1.22E-05
slc41a1	ENSDARG00000070214	-2.52346377	2.27E-06
osgin2	ENSDARG00000040302	-2.518600955	0.000241937
fosl2	ENSDARG00000040623	-2.511604738	4.52E-09
irf7	ENSDARG00000045661	-2.511540658	3.80E-05
GPR81-4	ENSDARG00000087084	-2.509188399	0.00104802
TRPC7 (2 of 3)	ENSDARG00000079469	-2.506785746	0.016699314
slc37a1	ENSDARG00000086103	-2.50655249	1.49E-08
AL845295.2	ENSDARG00000095237	-2.506159702	0.000519433
tnfaip2b	ENSDARG00000058160	-2.504983391	0.008928683
SPIRE1 (2 of 3)	ENSDARG00000038445	-2.504535141	0.000171466
si:ch211-81a5.2	ENSDARG00000094631	-2.502702734	0.00233575
CR792456.1	ENSDARG00000022101	-2.501671263	3.56E-19
nr6a1a	ENSDARG00000018030	-2.500304881	0.00149947
nfil3	ENSDARG00000042977	-2.499113402	1.71E-19
prtgb	ENSDARG00000040442	-2.497497605	4.84E-07
slc43a2a	ENSDARG00000036848	-2.496893226	2.36E-22
dlgap3	ENSDARG00000055459	-2.496586786	2.10E-11
PLXNA2	ENSDARG00000060372	-2.496178179	1.89E-17
dbpa	ENSDARG00000063014	-2.494809631	5.46E-19
crim1	ENSDARG00000029668	-2.492811579	1.81E-16
si:ch211-241n15.3	ENSDARG00000088915	-2.490191659	0.000382968
slc20a1b	ENSDARG00000010641	-2.489277696	1.02E-22

CABZ01111990.1	ENSDARG00000087105	-2.488417311	0.00022093
duspl	ENSDARG00000007628	-2.485447791	4.20E-10
CR456632.1	ENSDARG00000075902	-2.485288578	0.017176726
kenma1b	ENSDARG00000060237	-2.482904983	0.000458223
ftr14l	ENSDARG00000078254	-2.48217391	0.000806334
CABZ01075947.1	ENSDARG00000090933	-2.480128878	0.000106105
si:ch73-67c22.3	ENSDARG00000095825	-2.475939109	0.015319135
foxo1a	ENSDARG00000063540	-2.475597816	4.22E-14
si:dkey-19a16.4	ENSDARG00000071657	-2.474089869	0.00436062
cacnb4a	ENSDARG00000009738	-2.473346495	3.09E-07
ZBTB42	ENSDARG00000074455	-2.471767603	0.002300849
MAP7 (2 of 2)	ENSDARG00000078241	-2.469651641	5.32E-07
osbpl3a	ENSDARG00000033251	-2.465422716	2.31E-11
CHST6	ENSDARG00000061357	-2.464356794	8.08E-17
si:dkey-120e24.3	ENSDARG00000039863	-2.46380392	5.36E-11
UNC5C (2 of 2)	ENSDARG00000086109	-2.462336242	5.11E-06
mb21d2b	ENSDARG00000027602	-2.462019912	3.35E-13
BICC1 (2 of 2)	ENSDARG00000061682	-2.454601405	5.13E-11
CSRNP3	ENSDARG00000079741	-2.451022823	4.62E-06
slc12a5a	ENSDARG00000075815	-2.45025843	3.16E-11
smcr8b	ENSDARG00000015803	-2.450142766	4.48E-11
GJC1	ENSDARG00000077563	-2.447257297	0.000267895
ncf1	ENSDARG00000033735	-2.445388669	1.66E-09
PPP1R15A	ENSDARG00000069135	-2.444832828	1.90E-06
CR354435.5	ENSDARG00000091205	-2.443886492	0.030183183
tead1b	ENSDARG00000059483	-2.442849607	3.97E-08
csrnp1a	ENSDARG00000031426	-2.441270742	7.18E-11
rassf9	ENSDARG00000074721	-2.439357065	4.70E-08
mephl	ENSDARG00000058372	-2.438880653	3.01E-06
elovl7b	ENSDARG00000005785	-2.438105775	3.86E-12
C2CD4C (1 of 2)	ENSDARG00000079556	-2.436684118	0.014230128
crebrf	ENSDARG00000078581	-2.436099018	4.79E-09
EPS8L1 (1 of 2)	ENSDARG00000003313	-2.435585151	6.90E-11
tmprss4a	ENSDARG00000006693	-2.434615225	1.57E-11
si:dkeyp-19e1.3	ENSDARG00000051836	-2.432738969	2.88E-08
nab1b	ENSDARG00000040700	-2.431750544	2.79E-07
	ENSDARG00000091265	-2.42945949	8.20E-08
pnp5a	ENSDARG00000078619	-2.428376157	3.60E-16
si:dkey-250k10.3	ENSDARG00000096468	-2.424755809	1.11E-05
fbn2a	ENSDARG00000051896	-2.424681787	2.50E-10
CABZ01068819.1	ENSDARG00000091843	-2.424174065	4.67E-06
arhgap30	ENSDARG00000088344	-2.422434069	0.028712713
dsc2l	ENSDARG00000039677	-2.42015793	1.29E-09
rnf44	ENSDARG00000068582	-2.418574768	2.70E-09
btr04	ENSDARG00000060962	-2.418032539	0.000126835
BX936420.1	ENSDARG00000089021	-2.414835895	0.014142447
EIF2C1	ENSDARG00000059888	-2.41441571	1.96E-07

BX255935.3	ENSDARG00000094292	-2.414105799	1.00E-04
CABZ01111496.1	ENSDARG00000003041	-2.414004863	2.13E-10
ptpn21	ENSDARG00000062248	-2.413833425	4.53E-14
C25H1orf51 (2 of 2)	ENSDARG00000088171	-2.412299853	3.80E-17
ahrrb	ENSDARG00000052618	-2.411795847	0.001403607
mknk2b	ENSDARG00000015164	-2.411051859	1.19E-08
MAGI2 (2 of 2)	ENSDARG00000073769	-2.410637983	0.000178078
lrch2	ENSDARG00000075580	-2.409405306	1.73E-06
slc44a1b	ENSDARG00000090982	-2.405127233	5.03E-07
si:dkey-222o15.5	ENSDARG00000096221	-2.403558336	0.009725461
ednrb1b	ENSDARG00000053498	-2.401667942	0.005056616
CABZ01053592.1	ENSDARG00000090923	-2.399785056	1.69E-07
ctsl.1	ENSDARG00000003902	-2.397793158	7.60E-12
cry1a	ENSDARG00000045768	-2.39732948	1.16E-19
CR848788.1	ENSDARG00000090353	-2.396069147	5.49E-05
si:dkeyp-72a4.1	ENSDARG00000093985	-2.395769526	0.015075478
nr4a1	ENSDARG00000000796	-2.394584309	1.56E-08
LRRC8A (2 of 2)	ENSDARG00000052155	-2.39456922	9.73E-14
batf	ENSDARG00000011818	-2.39342922	9.68E-05
LOXL2 (2 of 3)	ENSDARG00000091492	-2.392557916	5.56E-12
BX510934.1	ENSDARG00000087544	-2.392038791	0.004013773
cpdb	ENSDARG00000053877	-2.39110379	0.046589735
klf13	ENSDARG00000061368	-2.386590146	1.06E-11
ajap1	ENSDARG00000038655	-2.384846546	8.11E-15
CRFA31.2	ENSDARG00000074992	-2.384320017	5.00E-09
mknk1	ENSDARG00000018411	-2.381903919	1.76E-13
CABZ01039424.1	ENSDARG00000083588	-2.380380976	0.023736666
CABZ01044023.1	ENSDARG00000075524	-2.379543463	0.000197533
si:ch211-264f5.2	ENSDARG00000078547	-2.379047427	0.000981008
BX119910.2	ENSDARG00000062610	-2.378401569	0.001500854
si:dkeyp-34c12.1	ENSDARG00000071083	-2.377411484	2.97E-05
cd40	ENSDARG00000054968	-2.37614107	0.000111881
	ENSDARG00000075216	-2.373447897	0.02632686
FAM155A (1 of 2)	ENSDARG00000086224	-2.372361027	0.018684103
	ENSDARG00000019651	-2.372137683	0.01780875
cbx7a	ENSDARG00000038025	-2.371453911	8.59E-09
slc16a2	ENSDARG00000089969	-2.370267189	0.005402141
ANGEL1 (1 of 2)	ENSDARG00000077567	-2.36984357	1.33E-05
si:dkey-103d23.3	ENSDARG00000095057	-2.368818778	0.000868602
CABZ01029822.1	ENSDARG00000086931	-2.365817753	0.000265661
SRGAP3	ENSDARG00000060309	-2.3653925	1.80E-15
F2RL2 (1 of 2)	ENSDARG00000079472	-2.363096088	9.99E-05
TBC1D2	ENSDARG00000071304	-2.362663358	7.43E-07
evpla	ENSDARG00000019808	-2.36149749	4.01E-08
DUSP8 (2 of 2)	ENSDARG00000039232	-2.360927885	1.32E-11
CABZ01084952.1	ENSDARG00000086333	-2.360565231	4.56E-06

CCDC120 (1 of 2)	ENSDARG00000012449	-2.359115531	1.28E-07
btg2	ENSDARG00000020298	-2.357909062	9.06E-11
sla2	ENSDARG00000020788	-2.357762108	0.000860328
fam212b	ENSDARG00000073900	-2.351653558	0.000696273
SLC46A2	ENSDARG00000075229	-2.34759634	0.00026808
lcor	ENSDARG00000070907	-2.34736368	9.58E-07
pfkfb4l	ENSDARG00000029075	-2.346293126	7.83E-10
nr1d2a	ENSDARG00000003820	-2.343198519	8.15E-19
kctd3	ENSDARG00000060854	-2.342770172	2.36E-13
FAM83G (2 of 2)	ENSDARG00000062929	-2.340904486	3.99E-14
maf2	ENSDARG00000030791	-2.34052945	4.41E-07
SLC5A10	ENSDARG00000074212	-2.338591805	2.11E-16
itga6b	ENSDARG00000069946	-2.336695769	3.17E-18
kank2	ENSDARG00000018393	-2.336179413	2.46E-11
upp1	ENSDARG00000040869	-2.335834711	1.18E-05
crfb17	ENSDARG00000074771	-2.334725205	5.95E-08
TNFRSF1B	ENSDARG00000070165	-2.332913903	0.001313751
GRIK2	ENSDARG00000074515	-2.332443005	4.35E-14
TSPAN19	ENSDARG00000088044	-2.332256008	0.003069327
slco2a1	ENSDARG00000061896	-2.331436713	7.64E-12
nlgn4b	ENSDARG00000077761	-2.330359776	3.69E-07
CABZ01072534.1	ENSDARG00000075951	-2.329717749	4.11E-05
TMEM116	ENSDARG00000077155	-2.326775568	0.000178129
bbc3	ENSDARG00000069282	-2.326027462	4.38E-11
BX957278.1	ENSDARG00000010940	-2.325713339	1.12E-08
RICTOR (2 of 3)	ENSDARG00000059418	-2.324970943	0.012132296
MGA (1 of 2)	ENSDARG00000086287	-2.323574792	5.67E-10
SACS (1 of 2)	ENSDARG00000091042	-2.322603471	0.002707703
mtnr1ba	ENSDARG00000053833	-2.32066153	0.039036237
SH3RF3	ENSDARG00000060401	-2.320064183	3.71E-06
nhsa	ENSDARG00000070227	-2.317422022	9.58E-13
M1AP	ENSDARG00000076731	-2.316677553	0.031787288
slc12a5b	ENSDARG00000078187	-2.314849891	1.35E-13
myo5aa	ENSDARG00000061635	-2.313411581	7.80E-09
f2rl2	ENSDARG00000090524	-2.313357016	0.024601961
znf512	ENSDARG00000041910	-2.31334707	5.56E-06
CABZ01114082.1	ENSDARG00000089672	-2.31016561	0.006585896
prkaa2	ENSDARG00000060641	-2.309924642	5.06E-06
scd	ENSDARG00000033662	-2.309070582	0.000392609
ANO8	ENSDARG00000077229	-2.308335918	3.91E-09
pparab	ENSDARG00000091024	-2.308203822	0.000335336
si:dkey-104n9.1	ENSDARG00000093042	-2.307116855	4.44E-05
ankk1	ENSDARG00000056921	-2.306667004	1.98E-05
ERC1 (2 of 3)	ENSDARG00000076014	-2.301505159	8.78E-05
mid1ip1a	ENSDARG00000041051	-2.298391154	1.80E-16
si:dkey-3n22.9	ENSDARG00000096273	-2.297087016	0.001491782
frmd3	ENSDARG00000059885	-2.29677292	2.08E-08

CU695222.1	ENSDARG00000027538	-2.296432431	0.027468095
RHOBTB1	ENSDARG00000079468	-2.29460431	6.35E-05
CD44 (2 of 2)	ENSDARG00000087863	-2.293404651	0.003550735
LRCH3	ENSDARG00000075769	-2.290067835	1.10E-10
si:dkey-16p19.5	ENSDARG00000092583	-2.289710292	0.007970373
sfmbt2	ENSDARG00000045519	-2.287750582	2.26E-08
EIF2C3B	ENSDARG00000063079	-2.287560323	1.29E-10
GALNT3	ENSDARG00000063724	-2.28661531	4.75E-07
KCNIP2	ENSDARG00000075846	-2.286324026	0.007647024
ZNF326	ENSDARG00000030737	-2.285065358	3.59E-05
CT583728.3	ENSDARG00000086410	-2.283245297	0.003378011
TENC1A	ENSDARG00000076292	-2.28323416	8.00E-14
si:ch211-4l14.2	ENSDARG00000094920	-2.283165425	0.036384582
PRKG1B	ENSDARG00000031702	-2.28307873	2.61E-14
BACH1	ENSDARG00000002196	-2.282140658	1.07E-12
CABZ01061717.1	ENSDARG00000088577	-2.279007356	0.027115441
CR354540.2	ENSDARG00000019318	-2.278879488	0.00084024
WU:FC34E06	ENSDARG00000088337	-2.276843768	8.48E-06
ZGC:111983	ENSDARG00000006588	-2.276236554	1.62E-17
AL840638.1	ENSDARG00000074519	-2.275175905	3.85E-06
si:ch211-266a5.12	ENSDARG00000092714	-2.27492882	0.046036589
CR524823.3	ENSDARG00000086693	-2.273758744	0.000132045
	ENSDARG00000095115	-2.272295251	0.004996403
ZGC:173603	ENSDARG00000086720	-2.27219467	0.0003685
ZNF365	ENSDARG00000087985	-2.266724065	0.016928337
si:dkey-117n7.2	ENSDARG00000093135	-2.266023438	0.000413025
CT485993.2	ENSDARG00000036569	-2.265264082	0.00112702
CABZ01045212.1	ENSDARG00000087525	-2.264248762	1.60E-08
WDR78	ENSDARG00000044400	-2.264182481	0.017097609
TRIB3	ENSDARG00000016200	-2.264160527	4.57E-15
SIX7	ENSDARG00000070107	-2.263530871	2.73E-11
SSX2IP (2 of 2)	ENSDARG00000061602	-2.262592563	2.13E-07
CU929396.1	ENSDARG00000086141	-2.262477362	0.001091039
LPFR2A	ENSDARG00000007578	-2.262420093	7.32E-08
FRMPD1 (4 of 6)	ENSDARG00000091472	-2.261779295	0.031555624
	ENSDARG00000087670	-2.261652766	0.028015585
si:dkey-220o21.2	ENSDARG00000095244	-2.260927411	0.023905912
SGMS2 (2 of 2)	ENSDARG00000036897	-2.260881677	1.26E-05
RNF166 (1 of 2)	ENSDARG00000086394	-2.257986038	0.009247707
si:ch211-133l5.5	ENSDARG00000093753	-2.254908037	0.001056676
SLC25A25A	ENSDARG00000010572	-2.254164594	1.46E-09
UNC5DB	ENSDARG00000061541	-2.253140993	7.20E-09
AL929022.2	ENSDARG00000079765	-2.252504715	0.000250058
PDE4CA	ENSDARG00000013221	-2.252090472	4.76E-06
GDF2	ENSDARG00000059173	-2.25110291	0.019064834
CX34.4	ENSDARG00000075854	-2.250676442	4.71E-05
	ENSDARG00000088703	-2.249724692	0.003233003

wu:fb64b08	ENSDARG00000092222	-2.24822045	0.020915073
CABZ01071177.1	ENSDARG00000041086	-2.247852211	5.17E-06
zbtb34	ENSDARG00000013492	-2.245813111	0.000143531
cepb1b	ENSDARG00000008454	-2.244471666	0.000651556
YPEL2 (1 of 2)	ENSDARG00000087258	-2.243095153	0.007742246
DLGAP4	ENSDARG00000012823	-2.241248305	6.45E-10
HIVEP2 (2 of 2)	ENSDARG00000018773	-2.241230321	2.93E-09
si:ch211-1e14.1	ENSDARG00000063361	-2.240225157	8.85E-08
ABCC6 (2 of 3)	ENSDARG00000009582	-2.238531505	6.39E-06
igfbp1a	ENSDARG00000014947	-2.238289842	1.04E-06
si:ch73-303g23.4	ENSDARG00000095936	-2.237814736	6.80E-15
socs3b	ENSDARG00000026611	-2.237565935	7.38E-05
CCDC89	ENSDARG00000039824	-2.237050246	0.002005587
tgfb1a	ENSDARG00000041502	-2.236311552	1.09E-09
rab11fip4a	ENSDARG00000090170	-2.235793036	0.001863738
BX571811.1	ENSDARG00000036085	-2.233824331	0.049642182
LPIN3	ENSDARG00000015563	-2.233140749	4.16E-08
ONECUT2	ENSDARG00000090387	-2.232759106	0.000664675
SLC45A4 (2 of 2)	ENSDARG00000021820	-2.231667149	4.23E-06
shroom1	ENSDARG00000094181	-2.231484354	5.54E-08
AL953907.2	ENSDARG00000070510	-2.23090192	0.00513425
si:ch211-9f20.4	ENSDARG00000094980	-2.230900489	0.001547819
pparab	ENSDARG00000054323	-2.230894103	1.23E-05
si:ch211-13o20.3	ENSDARG00000091871	-2.230078087	8.24E-07
CU929431.1	ENSDARG00000091061	-2.229542386	5.35E-09
snphb	ENSDARG00000075539	-2.228942641	1.96E-10
slc12a10.1	ENSDARG00000013743	-2.227104578	0.010590439
MKL2 (2 of 3)	ENSDARG00000076704	-2.226212787	0.002078398
CR792453.2	ENSDARG00000089694	-2.225559429	0.032011819
klf3	ENSDARG00000015495	-2.224834846	1.43E-12
CD55	ENSDARG00000086724	-2.22436141	5.39E-09
micall2b	ENSDARG00000017834	-2.224000099	0.000969993
cyb561	ENSDARG00000038176	-2.222177184	0.009590094
nr1d2b	ENSDARG00000009594	-2.220974239	1.63E-17
si:dkey-24p1.6	ENSDARG00000028784	-2.219313734	0.000946811
homez	ENSDARG00000054304	-2.21876978	3.06E-05
CDC42BPA (1 of 2)	ENSDARG00000058760	-2.218657807	2.85E-10
lonrf1	ENSDARG00000075048	-2.218447671	1.29E-15
CABZ01056274.1	ENSDARG00000089832	-2.218290493	0.028728439
tagln3a	ENSDARG00000079805	-2.216435093	3.08E-06
SLC39A14	ENSDARG00000090174	-2.215128637	0.003257684
hivep1	ENSDARG00000079528	-2.213482321	1.30E-15
FAM196A (1 of 3)	ENSDARG00000079559	-2.213266146	0.000135861
si:ch211-67f13.8	ENSDARG00000079155	-2.212956577	0.022970325
pde10a	ENSDARG00000003449	-2.212665849	2.31E-10
si:ch211-209j10.6	ENSDARG00000093317	-2.212548305	0.000370043
zgc:73349	ENSDARG00000023822	-2.209584267	3.95E-05

BX649453.2	ENSDARG00000089941	-2.208830433	0.036257717
hivep2	ENSDARG00000039987	-2.20877256	2.35E-15
rbpj1	ENSDARG00000074148	-2.208182069	0.02684343
ches1	ENSDARG00000043553	-2.206502884	2.45E-07
CU694319.1	ENSDARG00000018040	-2.206255157	0.000771163
fam101b	ENSDARG00000093931	-2.205190798	5.36E-05
si:dkey-217f16.1	ENSDARG00000089602	-2.203588049	0.01094642
ldlr	ENSDARG00000029476	-2.202100473	9.96E-15
si:ch211-255g12.8	ENSDARG00000069627	-2.201946646	0.011526737
SBNO2 (2 of 3)	ENSDARG00000016188	-2.201370452	1.69E-08
prdm1b	ENSDARG00000053592	-2.201185875	5.84E-06
srf	ENSDARG00000053918	-2.1999689	1.70E-09
CR385078.2	ENSDARG00000088490	-2.199847851	1.24E-05
smyd4	ENSDARG00000060983	-2.199361313	1.41E-06
casp3b	ENSDARG00000055045	-2.199328921	0.005774674
hsh2d	ENSDARG00000042908	-2.198610996	1.91E-05
si:ch211-66k16.20	ENSDARG00000092789	-2.198335339	8.81E-05
slc52a3	ENSDARG00000042737	-2.195199704	0.000245822
slc2a6	ENSDARG00000058731	-2.192927353	0.001888382
svilb	ENSDARG00000088405	-2.191602927	2.36E-07
ZC3H12A (1 of 2)	ENSDARG00000005271	-2.191123728	1.73E-05
CU459012.3	ENSDARG00000079151	-2.190457274	7.41E-06
slc6a17	ENSDARG00000068787	-2.19032016	3.96E-09
ADM (2 of 2)	ENSDARG00000069027	-2.190073361	1.98E-06
KCNA2 (1 of 2)	ENSDARG00000091458	-2.189017992	4.44E-06
lacc1	ENSDARG00000076914	-2.188917378	0.04128434
ankrd52a	ENSDARG00000036826	-2.188288839	2.46E-09
neur1a	ENSDARG00000069438	-2.187951536	2.33E-11
si:ch211-122124.4	ENSDARG00000087004	-2.187618012	0.001402247
slc24a4b	ENSDARG00000067509	-2.18587301	0.000557162
sobpb	ENSDARG00000017386	-2.184907951	1.29E-07
dennd3b	ENSDARG00000013153	-2.184123101	0.023051679
CABZ01072077.1	ENSDARG00000034467	-2.183029676	2.20E-06
UNC13A (3 of 3)	ENSDARG00000090528	-2.181037564	0.006009635
spg20b	ENSDARG00000061211	-2.180677461	4.29E-11
TMEM184B (3 of 3)	ENSDARG00000090876	-2.179401203	1.46E-07
egr2a	ENSDARG00000044098	-2.179250776	0.004454793
tmprss13b	ENSDARG00000077573	-2.178208219	2.34E-07
rrad	ENSDARG00000052011	-2.177549348	6.16E-06
PLCB1	ENSDARG00000090084	-2.176463149	0.002565532
sgcg	ENSDARG00000038107	-2.175929012	0.001079622
SHISA8 (1 of 2)	ENSDARG00000090314	-2.17488126	0.038241871
zgc:110224	ENSDARG00000032263	-2.173802007	0.002572092
PIM3	ENSDARG00000055129	-2.173285757	1.31E-13
ECE1	ENSDARG00000087841	-2.171729943	4.81E-08
ZCCHC2	ENSDARG00000067950	-2.171141811	3.79E-11

pmaip1	ENSDARG00000089307	-2.170373314	0.017602151
osbp16	ENSDARG00000063730	-2.169098042	3.69E-07
SGSM2	ENSDARG00000063307	-2.169027832	6.22E-08
si:dkeyp-31a2.2	ENSDARG00000092959	-2.168980195	0.006641066
abhd8	ENSDARG00000079719	-2.168260224	1.15E-06
cngb1a	ENSDARG00000068242	-2.168162246	2.92E-06
pptc7a	ENSDARG00000011122	-2.167131514	5.17E-14
AL929291.1	ENSDARG00000052736	-2.166650288	0.017437249
TULP1 (1 of 2)	ENSDARG00000075295	-2.16658539	1.91E-09
SI:DKEYP-67A8.4	ENSDARG00000092823	-2.166473211	0.020055888
C10H8orf4 (2 of 2)	ENSDARG00000076858	-2.165531085	0.018076832
PLCH2 (2 of 2)	ENSDARG00000056805	-2.161811023	0.001057717
	ENSDARG00000089854	-2.161172959	0.002791991
GM2A (2 of 2)	ENSDARG00000089498	-2.160131956	0.010161521
spen	ENSDARG00000074245	-2.159636508	6.01E-16
SLC25A22 (1 of 2)	ENSDARG00000020718	-2.158992563	1.57E-09
sfxn1	ENSDARG00000019963	-2.158634597	1.33E-12
pik3ip1	ENSDARG00000003281	-2.158164317	8.19E-15
cdc2	ENSDARG00000075866	-2.157848256	7.10E-05
si:dkey-167i21.4	ENSDARG00000092811	-2.157816978	0.006438265
rnf34b	ENSDARG00000054036	-2.157242684	5.82E-07
guca1c	ENSDARG00000030758	-2.154251156	2.06E-05
fas	ENSDARG00000043586	-2.151548614	0.010693792
ahnak	ENSDARG00000061764	-2.151398311	1.69E-10
clcf1	ENSDARG00000076140	-2.151255134	0.001477911
cadm1b	ENSDARG00000042677	-2.151106623	7.48E-06
nfk2	ENSDARG00000038687	-2.150751235	8.66E-06
RSF1 (3 of 3)	ENSDARG00000074737	-2.149878418	1.81E-06
si:ch211-165f21.6	ENSDARG00000090099	-2.149837632	3.62E-05
EGR3	ENSDARG00000089156	-2.148135167	1.05E-07
syt14a	ENSDARG00000010934	-2.147815156	3.46E-05
cldn7b	ENSDARG00000014047	-2.147107324	7.63E-07
CR318595.3	ENSDARG00000077957	-2.14704948	0.001715029
erbb4a	ENSDARG00000063207	-2.14513909	9.42E-07
zgc:101846	ENSDARG00000068995	-2.14463777	3.84E-17
si:dkey-177p2.16	ENSDARG00000095125	-2.143810793	0.013158611
MKL2 (1 of 3)	ENSDARG00000088307	-2.143133817	2.70E-05
CABZ01074899.1	ENSDARG00000025237	-2.14287717	0.000522166
BX511189.1	ENSDARG00000090708	-2.142116014	0.00787486
si:dkey-24i24.3	ENSDARG00000088452	-2.140893621	0.002570753
pld2	ENSDARG00000034262	-2.140584952	1.60E-12
si:ch211-138k19.2	ENSDARG00000045265	-2.139031563	4.13E-06
si:ch211-244o18.2	ENSDARG00000095341	-2.139014438	2.80E-05
ftr25	ENSDARG00000093651	-2.137854913	0.019404192
si:dkeyp-77h1.4	ENSDARG00000058248	-2.136881758	0.000161577
CR854907.1	ENSDARG00000079581	-2.136746142	4.79E-06
cnm1	ENSDARG00000078087	-2.136417599	0.000392246

GREB1L	ENSDARG00000092038	-2.13628904	0.034395224
slc16a3	ENSDARG00000045051	-2.136125075	6.09E-14
slc17a9a	ENSDARG00000042954	-2.134988867	0.006623517
BX571954.2	ENSDARG00000094394	-2.13080933	0.038299525
NOTCH4	ENSDARG00000079519	-2.130045864	0.009301074
si:dkeyp-92c9.2	ENSDARG00000036105	-2.130034989	0.005223004
PLEKHB1 (2 of 2)	ENSDARG00000088943	-2.129554165	0.000271511
si:dkey-257e4.5	ENSDARG00000092861	-2.128569846	0.014656635
vsx1	ENSDARG00000056292	-2.1281081	1.83E-05
si:dkey-157119.2	ENSDARG00000060340	-2.127877476	2.01E-07
xirp2a	ENSDARG00000071113	-2.126158676	3.33E-12
slc13a2	ENSDARG00000053853	-2.124825142	1.94E-06
egfra	ENSDARG00000013847	-2.123907866	8.93E-11
si:ch73-248e21.5	ENSDARG00000088283	-2.122907978	0.013935208
SPOCK1	ENSDARG00000074644	-2.121496078	1.15E-10
slc48a1a	ENSDARG00000026907	-2.120360206	4.66E-08
si:dkey-263l8.2	ENSDARG00000095860	-2.11945636	0.000844386
cacna1c	ENSDARG00000008398	-2.117971444	1.28E-11
hist2h2l	ENSDARG00000068996	-2.116945476	3.40E-14
stx2a	ENSDARG00000004618	-2.11575357	2.33E-07
AAK1 (2 of 2)	ENSDARG00000011855	-2.115549228	6.06E-07
CABZ01103858.1	ENSDARG00000089996	-2.115420572	5.02E-05
dock3	ENSDARG00000063180	-2.11400334	6.39E-13
SIK1	ENSDARG00000058606	-2.11102355	9.00E-13
CABZ01032469.1	ENSDARG00000091869	-2.109484621	0.000519945
si:dkey-83k24.5	ENSDARG00000093019	-2.109484373	0.001094411
si:ch73-25i22.2	ENSDARG00000088549	-2.10871102	1.96E-07
lama2	ENSDARG00000022013	-2.108676713	9.39E-05
lrrc3b	ENSDARG00000063215	-2.108571189	0.004632152
frem3	ENSDARG00000074677	-2.108501835	1.41E-12
sptlc2b	ENSDARG00000074287	-2.108480697	3.24E-13
drgx	ENSDARG00000069329	-2.107656779	2.07E-05
cacnb3a	ENSDARG00000001881	-2.10678977	0.000141261
tmprss4b	ENSDARG00000012860	-2.10635017	1.88E-06
CU459204.1	ENSDARG00000089373	-2.103689982	0.019291768
si:ch211-137i24.12	ENSDARG00000094537	-2.102101204	0.035827637
zfand5a	ENSDARG00000018898	-2.102022475	2.05E-14
tcte1	ENSDARG00000077387	-2.101981169	0.043954889
tfe3a	ENSDARG00000004729	-2.101506922	2.72E-08
MTUS2 (2 of 2)	ENSDARG00000074984	-2.101497241	0.014717563
CNTNAP1	ENSDARG00000074524	-2.100834033	8.62E-06
il17c	ENSDARG00000057180	-2.099413482	0.040479499
dazap1	ENSDARG00000070846	-2.09785013	4.81E-11
CR936977.1	ENSDARG00000086873	-2.097382147	0.019822577
noxal	ENSDARG00000056047	-2.097353019	0.006784891
PPAP2C (1 of 2)	ENSDARG00000002231	-2.097175982	1.97E-05
mast4	ENSDARG00000078270	-2.093205622	1.11E-10

tmem178b	ENSDARG0000006747	-2.092714285	3.42E-07
BX323458.1	ENSDARG00000078220	-2.092435395	3.63E-08
asic1c	ENSDARG00000068245	-2.092410418	0.04400083
AL954372.1	ENSDARG00000087176	-2.09226007	1.72E-07
si:ch211-196h16.11	ENSDARG00000005690	-2.090691115	1.23E-12
irf6	ENSDARG00000043296	-2.089695116	9.49E-12
stat5.1	ENSDARG00000019392	-2.089154859	4.59E-07
ccny	ENSDARG00000063677	-2.08588498	9.79E-09
si:dkey-31k12.2	ENSDARG00000096542	-2.085069438	2.45E-12
si:dkey-240h12.4	ENSDARG00000034210	-2.085053857	5.65E-09
mtnr1c	ENSDARG00000035609	-2.084142087	0.007812996
nptx2b	ENSDARG00000045164	-2.084058486	0.003188952
kenj1a.6	ENSDARG00000088484	-2.083755664	0.001713098
USP2 (3 of 3)	ENSDARG00000074120	-2.083166168	4.31E-05
efna5b	ENSDARG00000057223	-2.083033355	0.007500257
ms4a17a.14	ENSDARG00000094809	-2.082735762	1.75E-05
rc3h2	ENSDARG00000063050	-2.082545076	1.78E-09
CABZ01085048.1	ENSDARG00000086198	-2.080047513	0.005189254
klf4a	ENSDARG00000079922	-2.079973715	0.000239156
TRPM4 (3 of 3)	ENSDARG00000063435	-2.079799742	5.03E-07
GPR97	ENSDARG00000074782	-2.079374825	0.009485021
atp8b2	ENSDARG00000079259	-2.079184923	5.29E-09
CABZ01002718.1	ENSDARG00000089363	-2.078945626	0.000111427
si:dkey-93n13.1	ENSDARG00000094328	-2.07825225	0.000348088
CABZ01083440.1	ENSDARG00000090535	-2.075692807	0.000217063
SI:DKEY-78K22.2	ENSDARG00000091243	-2.075467784	0.006018648
peyt1ba	ENSDARG00000058162	-2.07481681	1.21E-06
AL928875.1	ENSDARG00000035561	-2.074346063	0.000598372
si:ch211-121a2.4	ENSDARG00000028541	-2.074250143	0.013285663
ccpgl	ENSDARG00000044962	-2.074045308	0.009720258
zgc:73324	ENSDARG00000009040	-2.07354511	9.26E-09
CR381686.1	ENSDARG00000094073	-2.072785149	3.68E-05
hsf2	ENSDARG00000053097	-2.072538163	3.72E-12
arrdc2	ENSDARG00000020761	-2.07102713	1.80E-07
cyp1a	ENSDARG00000026039	-2.069578175	8.04E-13
maf1	ENSDARG00000018109	-2.069170187	0.008882539
slc13a1	ENSDARG00000045638	-2.068996255	5.42E-09
elmod3	ENSDARG00000074742	-2.068231699	0.001072478
lca5	ENSDARG00000076153	-2.066830691	3.75E-06
AL929558.5	ENSDARG00000088418	-2.064481484	0.027580456
samsn1a	ENSDARG00000054543	-2.06409088	6.91E-06
BX072576.1	ENSDARG00000078204	-2.06350126	0.022824118
si:ch211-188i4.4	ENSDARG00000092456	-2.062764031	0.000132969
atp8a1	ENSDARG00000063001	-2.060559711	0.001468005
si:dkey-13n15.11	ENSDARG00000078002	-2.060399909	0.000151735
si:ch73-269m14.3	ENSDARG00000096305	-2.060262561	0.023285801
CABZ01074984.2	ENSDARG00000036968	-2.058464185	0.001019839

SLC4A7	ENSDARG00000073952	-2.053684737	9.37E-10
znf395a	ENSDARG00000060113	-2.053620948	2.97E-13
PITPNC1	ENSDARG00000036853	-2.053072724	6.09E-06
dnaaf1	ENSDARG00000012030	-2.052209839	0.001458566
trim71	ENSDARG00000075593	-2.052067231	3.03E-09
tinagl1	ENSDARG00000061231	-2.051968524	1.13E-05
zgc:171490	ENSDARG00000071643	-2.051195726	0.001158768
dab1a	ENSDARG00000059939	-2.050943269	8.61E-09
SEMA6B (2 of 2)	ENSDARG00000036626	-2.050889162	2.14E-06
zgc:112300	ENSDARG00000052016	-2.050564662	0.000297176
ELFN2 (1 of 2)	ENSDARG00000077893	-2.050509576	0.001304744
zgc:158659	ENSDARG00000060597	-2.050185394	1.49E-05
C14H5orf45	ENSDARG00000074071	-2.049763887	1.47E-10
txnipa	ENSDARG00000036107	-2.048186772	9.50E-09
scp2b	ENSDARG00000036496	-2.047839422	3.33E-13
RPS6KA5	ENSDARG00000060551	-2.044904672	8.07E-05
slc3a2b	ENSDARG00000037012	-2.044361184	1.57E-14
CR354435.5	ENSDARG00000075220	-2.044213571	0.035393968
zgc:162160	ENSDARG00000060259	-2.044209485	0.000144274
DNAJB5 (2 of 2)	ENSDARG00000004187	-2.044097734	0.005691592
gramd4	ENSDARG00000069171	-2.043530282	5.69E-05
TNFRSF11B	ENSDARG00000034243	-2.042925647	0.000197191
il4r	ENSDARG00000031051	-2.042341234	4.41E-08
CACNA2D2 (2 of 3)	ENSDARG00000079540	-2.042273317	0.000193482
acbd4	ENSDARG00000027070	-2.041893457	6.83E-05
si:ch73-115f13.1	ENSDARG00000096641	-2.040276455	0.000582078
CU694486.1	ENSDARG00000041515	-2.039989325	0.002388166
slc8a2b	ENSDARG00000040625	-2.038922598	2.24E-07
si:dkey-88e18.6	ENSDARG00000095956	-2.038088411	0.004243621
CR392045.1	ENSDARG00000074551	-2.037877608	0.000246342
EPHB3 (1 of 2)	ENSDARG00000033589	-2.037352958	4.36E-09
CR376794.1	ENSDARG00000063715	-2.036922193	2.30E-06
si:ch211-187d1.2	ENSDARG00000096012	-2.035959464	0.00644117
prok1	ENSDARG00000073948	-2.035297058	0.00320519
wbp1lb	ENSDARG00000029751	-2.035222443	3.22E-08
ush2a	ENSDARG00000029482	-2.034866976	1.35E-07
FHOD1	ENSDARG00000051768	-2.031704124	7.53E-10
C18H3orf33	ENSDARG00000040582	-2.030587934	0.004087066
crb2b	ENSDARG00000060081	-2.030574901	7.51E-08
scai	ENSDARG00000060865	-2.030468467	4.90E-05
ANKFN1 (2 of 2)	ENSDARG00000060941	-2.027382265	0.012527112
dcps	ENSDARG00000009862	-2.026782966	9.94E-09
col7a1l	ENSDARG00000069692	-2.026442427	5.52E-06
myo10l1	ENSDARG00000074723	-2.025507896	4.04E-09
SHISA9B	ENSDARG00000052642	-2.025000055	0.014659254
fnbp1	ENSDARG00000036156	-2.022131282	2.20E-06

slc7a3a	ENSDARG00000020645	-2.021243451	1.52E-13
rhobtb2a	ENSDARG00000016868	-2.020971569	2.32E-07
nup98	ENSDARG00000074955	-2.018017652	2.36E-13
BBX	ENSDARG00000012699	-2.014963671	0.000482535
EPN3 (1 of 2)	ENSDARG00000004633	-2.013555428	0.003354487
si:ch211-263p13.6	ENSDARG00000094211	-2.013020404	0.006984527
GRAMD1B	ENSDARG00000074258	-2.012293568	9.26E-07
MTO1	ENSDARG00000055679	-2.01098337	3.00E-09
DCC (2 of 2)	ENSDARG00000090360	-2.010734616	3.52E-05
cebpd	ENSDARG00000087303	-2.010628865	4.63E-07
lzts2b	ENSDARG00000077207	-2.010394571	4.07E-05
CREM	ENSDARG00000023217	-2.010194819	1.82E-06
serpinb114	ENSDARG00000091801	-2.005756279	9.20E-13
tspan9a	ENSDARG00000025299	-2.005716849	0.006892571
BX005175.1	ENSDARG00000070651	-2.005038563	2.22E-12
si:dkey-182g1.6	ENSDARG00000055831	-2.001454779	3.51E-05
si:ch211-221g5.2	ENSDARG00000095646	-2.000631623	2.90E-05
GRIK3	ENSDARG00000077715	-1.999257952	3.09E-08
CU694374.3	ENSDARG00000095695	-1.99860273	0.012492054
CABZ01030889.1	ENSDARG00000019157	-1.998531179	7.05E-05
si:dkey-78o7.1	ENSDARG00000090979	-1.998071398	2.51E-05
si:dkey-54i3.3_2	ENSDARG00000093652	-1.997916916	0.000104048
fam46c	ENSDARG00000010437	-1.997894599	8.35E-10
MYO19 (2 of 2)	ENSDARG00000073761	-1.997641973	0.000195939
si:dkey-32e23.4	ENSDARG00000063159	-1.996969436	5.10E-08
dab1b	ENSDARG00000003290	-1.995983508	2.31E-06
zeb1a	ENSDARG00000016788	-1.995900058	2.03E-08
si:dkey-78k22.1	ENSDARG00000091284	-1.995507335	0.003475797
itpkcb	ENSDARG00000067741	-1.995441905	3.70E-07
zgc:171516	ENSDARG00000074219	-1.995407401	0.000374465
arntl2	ENSDARG00000041381	-1.994770805	2.11E-07
nr4a3	ENSDARG00000055854	-1.993773016	2.21E-08
erfl1	ENSDARG00000086892	-1.993396043	0.027044236
zgc:154093	ENSDARG00000055897	-1.992071545	1.31E-06
si:ch1073-185p12.2	ENSDARG00000075219	-1.991620473	0.000280267
vegfaa	ENSDARG00000045971	-1.990826225	3.26E-05
si:zfos-364h11.2	ENSDARG00000094606	-1.990054664	0.033262205
ripk4	ENSDARG00000043211	-1.990004803	7.39E-09
celf5	ENSDARG00000071375	-1.98991467	6.73E-09
fam46ba	ENSDARG00000039943	-1.989345587	5.19E-11
aspa	ENSDARG00000005154	-1.988413055	0.000372544
DFNA5 (2 of 2)	ENSDARG00000086762	-1.988295093	3.44E-05
dcst2	ENSDARG00000088693	-1.988205876	0.004109841
si:ch73-27e22.1	ENSDARG00000058759	-1.987793302	0.025592952
	ENSDARG00000013647	-1.987549124	0.001162925
csf2rb	ENSDARG00000076586	-1.985794321	0.03521305
	ENSDARG00000089152	-1.985296721	0.010985073

spire2	ENSDARG0000003084	-1.985160179	0.000456818
BX323035.1	ENSDARG00000060024	-1.985123585	0.030333411
ptges	ENSDARG00000020136	-1.983460021	9.55E-05
pcdh2g1	ENSDARG00000071895	-1.983380334	0.028364993
PGBD4 (8 of 8)	ENSDARG00000092846	-1.981425915	0.000332794
BX088718.4	ENSDARG00000090827	-1.981249581	0.011366638
PLEKHB1 (1 of 2)	ENSDARG00000063519	-1.980300899	0.000201695
KCNA4	ENSDARG00000078650	-1.979825288	0.000409461
si:busm1-57f23.1	ENSDARG00000074425	-1.978975531	0.008783592
dio2	ENSDARG00000094857	-1.978970268	0.009597684
DIP2B (2 of 2)	ENSDARG00000016348	-1.978160767	5.12E-09
ccdc28b	ENSDARG00000011222	-1.978131471	8.56E-07
CERS4 (1 of 2)	ENSDARG00000018619	-1.977263309	5.58E-06
si:ch211-24511.1	ENSDARG00000093786	-1.97700878	0.001534608
csdc2b	ENSDARG00000068477	-1.976720586	0.006378767
cacna1ab	ENSDARG0000006923	-1.975613639	2.62E-08
gc2	ENSDARG00000018329	-1.974954198	0.028837073
LARP4 (2 of 2)	ENSDARG00000074979	-1.974825766	1.74E-09
si:ch211-64c10.1	ENSDARG00000096286	-1.974311978	0.002242126
si:dkey-238g7.2	ENSDARG00000086895	-1.97410442	0.000826993
fam208b	ENSDARG00000074168	-1.973116704	1.33E-11
C13H10orf71 (1 of 2)	ENSDARG00000086970	-1.972661336	0.003324292
CR388165.1	ENSDARG00000093134	-1.972221791	0.023236433
APOL2	ENSDARG00000073718	-1.971751773	0.005629324
cdkn1a	ENSDARG00000076554	-1.971434031	2.07E-07
nrip1a	ENSDARG00000068965	-1.97118505	3.24E-11
5S_rRNA	ENSDARG00000085964	-1.971155282	0.004769371
shank3a	ENSDARG00000063332	-1.970064952	7.01E-05
BX927308.3	ENSDARG00000080001	-1.969848618	0.000103923
ulk1a	ENSDARG00000062518	-1.969575707	2.56E-07
CU570781.1	ENSDARG00000090188	-1.96821012	0.016849688
slmo2	ENSDARG00000009505	-1.968066349	8.09E-13
sqstm1	ENSDARG00000075014	-1.968010873	5.61E-08
TMEM74B	ENSDARG00000078868	-1.966413428	0.033431163
si:rp71-39b20.4	ENSDARG00000035861	-1.965382434	0.003998799
si:dkey-246g23.2	ENSDARG00000062964	-1.9643464	0.00290072
si:dkeyp-4f12.2	ENSDARG00000092805	-1.96426464	0.002551663
ppargc1b	ENSDARG00000056563	-1.964189535	3.97E-12
elf3	ENSDARG00000077982	-1.963221038	9.27E-10
xylt1	ENSDARG00000061248	-1.963191662	7.17E-08
CR388068.1	ENSDARG00000075296	-1.962185186	5.15E-05
zgc:174712	ENSDARG00000092605	-1.961758216	0.00267295
si:dkeyp-115a10.3	ENSDARG00000094340	-1.961665247	0.000382445
si:dkey-14d8.1	ENSDARG00000095332	-1.961255512	1.22E-07
tmem243a	ENSDARG00000042214	-1.961021043	0.025985362
setbp1	ENSDARG00000093799	-1.96077661	9.34E-08

CACNA1E (1 of 2)	ENSDARG00000095614	-1.960666979	0.000157515
CU278559.5	ENSDARG00000090455	-1.960336762	0.049170834
shda	ENSDARG00000094243	-1.959802361	0.000218489
pgm2l1	ENSDARG00000014704	-1.959601845	9.17E-08
slc20a1a	ENSDARG00000020114	-1.956920101	1.19E-09
wdr76	ENSDARG00000053554	-1.956785374	2.87E-07
CU915814.1	ENSDARG00000079878	-1.95577995	0.021709154
relb	ENSDARG00000086173	-1.955310165	0.006092807
mfge8b	ENSDARG00000045803	-1.954892386	1.01E-07
ovca2	ENSDARG00000076077	-1.954754176	2.11E-10
si:dkey-202n8.1	ENSDARG00000087118	-1.954395298	0.000123628
nrg1	ENSDARG00000068458	-1.953984208	1.17E-06
casp9	ENSDARG00000004325	-1.953833506	8.80E-08
zbtb7a	ENSDARG00000039899	-1.952339412	2.36E-09
GUCA1A (1 of 2)	ENSDARG00000043294	-1.952046029	6.96E-05
BX897720.5	ENSDARG00000094657	-1.951610023	0.042413151
C16H1orf172 (1 of 2)	ENSDARG00000079834	-1.951456035	0.000193241
si:dkey-24g18.3	ENSDARG00000036560	-1.951374442	0.022149511
f5	ENSDARG00000055705	-1.951300925	3.91E-09
CU467905.1	ENSDARG00000086266	-1.95121745	0.000348222
camk1da	ENSDARG00000074905	-1.949752295	5.56E-08
stk10	ENSDARG00000042760	-1.949663228	2.41E-10
gabbr2	ENSDARG00000061042	-1.949362787	8.89E-08
C19H18orf21 (1 of 2)	ENSDARG00000070413	-1.949080635	4.29E-05
ago-01	ENSDARG00000092644	-1.948636355	0.000117255
tmem175	ENSDARG00000076376	-1.94859707	3.78E-05
b4galt5	ENSDARG00000037815	-1.948375385	0.010413906
FP067396.1	ENSDARG00000088373	-1.947691793	2.80E-09
arl10	ENSDARG00000060775	-1.943420742	2.46E-05
hivep3a	ENSDARG00000075928	-1.942891154	2.05E-08
tnfrsf21	ENSDARG00000001807	-1.942737635	1.10E-10
LRFN2 (2 of 2)	ENSDARG00000060459	-1.942702868	8.10E-05
CABZ01079057.1	ENSDARG00000091173	-1.94234413	0.000888967
si:dkey-121h17.6	ENSDARG00000092263	-1.942145032	0.008877652
dspa	ENSDARG00000022309	-1.94206084	2.02E-12
CNTN6	ENSDARG00000077141	-1.941529592	1.15E-05
si:ch211-15116.3	ENSDARG00000096341	-1.940669478	0.019534927
ATP9A	ENSDARG00000088925	-1.939550148	3.20E-05
il6st	ENSDARG00000030498	-1.939180389	5.71E-10
si:dkey-173l11.5	ENSDARG00000068137	-1.938727214	0.005850807
	ENSDARG00000017173	-1.937183401	3.49E-07
igf1ra	ENSDARG00000027423	-1.936930234	2.36E-10
CU928220.2	ENSDARG00000087749	-1.936770755	3.39E-10
crhr1	ENSDARG00000003989	-1.936713878	0.015005476
	ENSDARG00000095045	-1.935995145	0.018699697
BX005175.2	ENSDARG00000088801	-1.934867123	1.86E-06

si:ch211-64i20.4	ENSDARG00000095198	-1.934205099	0.013930744
CABZ01090041.1	ENSDARG00000034667	-1.934083727	0.014098252
KCNQ2	ENSDARG00000091130	-1.933831827	0.001857333
GABRG3	ENSDARG00000017545	-1.93378715	0.000666268
zgc:114174	ENSDARG00000057884	-1.932414332	6.71E-07
ms4a17a.1	ENSDARG00000043798	-1.931374428	9.76E-05
SDR42E2	ENSDARG00000059914	-1.930610958	0.000277087
BX119910.7	ENSDARG00000077389	-1.928982223	2.29E-05
pard6b	ENSDARG00000003865	-1.928904576	0.000268039
DGKE	ENSDARG00000059735	-1.928251009	7.03E-05
si:dkey-19j7.4	ENSDARG00000094382	-1.927534386	0.008175697
MAP3K13	ENSDARG00000009493	-1.926646945	5.30E-07
amotl2b	ENSDARG00000061948	-1.926236566	5.23E-07
traf5	ENSDARG00000017240	-1.924741821	0.007985833
mmp24	ENSDARG00000018896	-1.924596774	1.02E-09
epcam	ENSDARG00000040534	-1.923942344	1.83E-12
arrb1	ENSDARG00000043241	-1.923870448	3.56E-06
si:ch211-74m13.1	ENSDARG00000095312	-1.923508021	0.003418793
rab8a	ENSDARG00000067920	-1.923476844	1.99E-07
bhlhe41	ENSDARG00000041691	-1.923289785	1.70E-07
si:ch73-374a13.1	ENSDARG00000094998	-1.922940976	4.52E-05
gadd45ba	ENSDARG00000027744	-1.92292852	7.88E-08
CU596012.1	ENSDARG00000042583	-1.922842218	0.000677793
si:ch211-214j24.15	ENSDARG00000063481	-1.922818324	0.000986999
si:ch211-80j13.1	ENSDARG00000096558	-1.922399645	0.000996543
si:ch211-193e5.3	ENSDARG00000055558	-1.922350758	0.033592922
PEA15	ENSDARG00000079771	-1.922311004	0.000329965
PPM1J	ENSDARG00000074690	-1.921688674	9.34E-05
adam8b	ENSDARG00000057644	-1.921136029	0.009000011
plxna3	ENSDARG00000007172	-1.921019925	8.56E-12
ttc39a	ENSDARG00000074126	-1.920620827	7.28E-06
ccdc149b	ENSDARG00000020857	-1.920110296	8.21E-07
zgc:162608	ENSDARG00000069375	-1.919250231	5.14E-10
CHRNA4 (3 of 3)	ENSDARG00000087071	-1.919246551	0.048453662
si:dkey-273o13.3	ENSDARG00000095402	-1.918577049	0.022281022
BIN1 (1 of 2)	ENSDARG00000042114	-1.916979886	4.99E-06
sgcd	ENSDARG00000009789	-1.916298375	3.17E-09
si:ch73-347c12.3	ENSDARG00000068830	-1.915608261	3.60E-07
si:dkey-191j3.3	ENSDARG00000093489	-1.914808085	0.00412681
epha2	ENSDARG00000017354	-1.914669544	7.94E-08
APOLD1 (3 of 4)	ENSDARG00000068030	-1.914381606	7.89E-08
si:ch73-263f13.1	ENSDARG00000094172	-1.913399556	0.009389383
zbtb21	ENSDARG00000043285	-1.913184047	4.25E-08
NAV1	ENSDARG00000078011	-1.912310182	3.24E-09
zgc:194906	ENSDARG00000074088	-1.912220676	0.038428579
rce1a	ENSDARG00000077909	-1.912139238	0.021946643
usp46	ENSDARG00000045343	-1.912047134	0.005215246

ptger2b	ENSDARG00000037033	-1.910114387	0.004324138
adcyap1r1a	ENSDARG00000029989	-1.909959534	2.04E-05
FARP1 (2 of 2)	ENSDARG00000063695	-1.90979306	0.000634694
nav2b	ENSDARG00000001879	-1.909706833	2.76E-10
cacna1bb	ENSDARG00000079295	-1.908966136	1.95E-08
ssh2a	ENSDARG00000088440	-1.908149243	7.18E-07
TMTC2 (1 of 2)	ENSDARG00000035273	-1.908045713	3.71E-09
tyro3	ENSDARG00000005356	-1.907895074	4.66E-05
CMYA5 (2 of 2)	ENSDARG00000077716	-1.907342135	0.004966874
fynb	ENSDARG00000025319	-1.906963705	1.66E-08
GAB2	ENSDARG00000074577	-1.90576203	0.000863299
bhlhe40	ENSDARG00000004060	-1.905438291	1.42E-11
si:dkey-175g6.2	ENSDARG00000086665	-1.905412801	0.044639446
si:dkey-56p7.9	ENSDARG00000092724	-1.904800809	1.96E-06
CABZ01067657.1	ENSDARG00000086047	-1.904338851	0.010030914
SI:DKEY-78K22.2	ENSDARG00000092757	-1.90402551	0.027335568
evalc	ENSDARG00000056024	-1.903907538	0.0477273
phc3	ENSDARG00000074604	-1.90357375	0.001083604
DLG4	ENSDARG00000041926	-1.903086678	1.19E-05
klf12b	ENSDARG00000032197	-1.902757403	2.52E-05
clock	ENSDARG00000011703	-1.902318646	5.95E-09
CU638740.4	ENSDARG00000087008	-1.901709688	0.012975813
r3hcc1	ENSDARG00000088146	-1.901400476	2.56E-09
si:dkey-30j22.1	ENSDARG00000042829	-1.901324185	0.001031232
BX649494.1	ENSDARG00000046150	-1.901231578	1.83E-09
polr2m	ENSDARG00000075017	-1.90080593	2.71E-08
PHLDB2 (2 of 2)	ENSDARG00000079889	-1.900689605	9.50E-10
si:dkey-19n13.5	ENSDARG00000088741	-1.900226073	1.74E-09
NEK3	ENSDARG00000058869	-1.899224734	0.022542496
	ENSDARG00000088164	-1.898525493	0.001229833
LRFN3	ENSDARG00000039500	-1.897263669	6.54E-05
nrn11b	ENSDARG00000061149	-1.896848546	0.001204041
foxg1b	ENSDARG00000032705	-1.896005149	8.28E-08
TMEM150A (2 of 2)	ENSDARG00000035184	-1.895346882	0.000128056
unc13ba	ENSDARG00000017391	-1.894143274	5.56E-07
zgc:162952	ENSDARG00000056245	-1.893929499	0.000106626
arl13a	ENSDARG00000052575	-1.892628331	2.50E-06
CR855306.1	ENSDARG00000087576	-1.892609107	0.025895808
zgc:91909	ENSDARG00000095922	-1.892406012	2.17E-05
MTMR3 (3 of 3)	ENSDARG00000089046	-1.891948311	0.000463158
osbpl2a	ENSDARG00000053804	-1.890499664	5.26E-09
sod3a	ENSDARG00000070168	-1.888711025	0.000537243
CU638714.1	ENSDARG00000091108	-1.888130504	3.40E-05
CR925773.1	ENSDARG00000054515	-1.887799141	0.015299498
si:dkey-20i20.3	ENSDARG00000092246	-1.887788945	0.039253321
zgc:162879	ENSDARG00000074163	-1.887754247	0.000321114

PDE5A (2 of 2)	ENSDARG00000056806	-1.887671955	2.28E-05
CR450785.2	ENSDARG00000089587	-1.887630839	0.000116905
slc8a4a	ENSDARG00000055154	-1.886970331	2.91E-05
CU468905.1	ENSDARG00000076797	-1.886661101	0.041727782
pcbp3	ENSDARG00000054378	-1.886242487	1.12E-08
zgc:91909	ENSDARG00000021287	-1.885717506	1.38E-09
mid1	ENSDARG00000060482	-1.884922927	0.000231059
si:dkey-175m17.7	ENSDARG00000078317	-1.884870511	0.000203403
cpla2	ENSDARG00000024546	-1.884077999	9.41E-06
nab2	ENSDARG00000078076	-1.88392489	0.000527689
PLEKHG3 (2 of 3)	ENSDARG00000058835	-1.88388725	1.12E-07
nfic	ENSDARG00000043210	-1.883389747	5.18E-07
BX119910.9	ENSDARG00000077854	-1.883235272	0.022596577
acsl4a	ENSDARG00000004078	-1.882677955	7.20E-11
st3gal3b	ENSDARG00000015252	-1.882172828	1.12E-07
wee1	ENSDARG00000093864	-1.882166198	1.12E-08
SLC4A3	ENSDARG00000053678	-1.881831168	0.000643235
optn	ENSDARG00000002663	-1.881671444	8.75E-06
AGAP3 (1 of 2)	ENSDARG00000075908	-1.880494597	0.000693164
tlr5b	ENSDARG00000044415	-1.879887985	0.001211792
BX537263.3	ENSDARG00000087432	-1.879800528	0.041674174
wu:fc01d11	ENSDARG00000088874	-1.879473788	0.010814593
map1aa	ENSDARG00000059601	-1.879380218	1.06E-06
WWC1	ENSDARG00000076041	-1.877854504	3.55E-06
mpp6a	ENSDARG00000056892	-1.877603418	1.46E-09
xpo1b	ENSDARG00000063229	-1.877009655	5.98E-11
rbms3	ENSDARG00000044574	-1.876307027	4.14E-10
tefb	ENSDARG00000038401	-1.875220404	2.28E-11
si:ch211-102c2.8	ENSDARG00000093823	-1.875216056	0.010023662
sema5b	ENSDARG00000061471	-1.874140988	2.44E-09
cx35.4	ENSDARG00000042866	-1.873939261	2.92E-07
CABZ01088365.1	ENSDARG00000013390	-1.872537606	0.000589967
SORCS1	ENSDARG00000076333	-1.8722558	0.004104488
ZFP37 (11 of 39)	ENSDARG00000075109	-1.870850779	0.009598556
si:dkey-27j5.5	ENSDARG00000026383	-1.870746928	0.00502594
CPNE8	ENSDARG00000025189	-1.870689334	0.000106969
traf3	ENSDARG00000022000	-1.870668458	1.83E-05
CU694315.1	ENSDARG00000040137	-1.869988511	0.000681089
dysf	ENSDARG00000007370	-1.869916756	1.50E-06
hbegfa	ENSDARG00000075121	-1.869887652	2.33E-07
zgc:110045	ENSDARG00000057141	-1.868821806	1.63E-05
TMCC1 (2 of 2)	ENSDARG00000076747	-1.86877647	0.000473393
BCL10	ENSDARG00000077130	-1.868276359	1.21E-05
SLC16A5 (2 of 2)	ENSDARG00000030472	-1.867970462	0.000926829
pim2	ENSDARG00000059001	-1.867780726	3.16E-06
	ENSDARG00000088087	-1.867750457	1.59E-11
ATG16L2 (1 of 2)	ENSDARG00000086191	-1.867297643	0.006579042

MAST1 (1 of 2)	ENSDARG00000027497	-1.867161979	9.21E-06
ivns1abpb	ENSDARG00000013946	-1.866681736	1.20E-10
hoxc1a	ENSDARG00000070337	-1.864463637	0.019398424
zgc:64189	ENSDARG00000033501	-1.863531503	0.000750285
slc6a11	ENSDARG00000041205	-1.862919701	0.000832278
slc35f3b	ENSDARG00000059850	-1.862774471	0.016613426
UBASH3B (1 of 2)	ENSDARG00000061243	-1.862392177	3.41E-05
CREB3L3 (2 of 2)	ENSDARG00000090903	-1.860964131	3.32E-05
	ENSDARG00000077072	-1.860904533	0.00707045
si:ch211-157c3.4	ENSDARG00000087093	-1.860829997	3.19E-09
rps6kb1a	ENSDARG00000018399	-1.860112668	7.61E-08
si:dkey-202p8.1	ENSDARG00000093232	-1.859746059	0.00363274
dynlt1	ENSDARG00000045909	-1.859442965	8.04E-06
tbx21	ENSDARG00000004473	-1.858788328	0.000287563
rpgrb	ENSDARG00000057074	-1.857900646	5.80E-05
atxn1a	ENSDARG00000061687	-1.857602868	3.34E-06
AL935181.3	ENSDARG00000086261	-1.857551845	0.002242357
CU424462.2	ENSDARG00000036575	-1.856955058	0.000220239
FNIP2	ENSDARG00000077648	-1.856800645	4.43E-06
LRCH1	ENSDARG00000078778	-1.856346569	8.38E-09
insig1	ENSDARG00000010658	-1.856002099	2.34E-09
si:ch211-129c21.1	ENSDARG00000024775	-1.855037663	1.83E-05
NYNRIN	ENSDARG00000092488	-1.853238007	3.23E-05
si:dkey-93n13.2	ENSDARG00000092816	-1.853181664	0.000751173
SGSM1 (1 of 2)	ENSDARG00000075376	-1.852587635	1.66E-09
SLC5A3 (1 of 2)	ENSDARG00000077812	-1.851920775	0.000206874
si:dkeyp-118h9.7	ENSDARG00000075668	-1.851532799	0.02141726
CU694256.1	ENSDARG00000037861	-1.851358041	0.000471041
	ENSDARG00000087018	-1.851101269	0.009093911
map3k10	ENSDARG00000055672	-1.850602217	0.000106786
kenj1a.4	ENSDARG00000090635	-1.849857001	0.005837983
C10H5orf30	ENSDARG00000093498	-1.849767869	0.002737087
si:dkey-222b8.1	ENSDARG00000045094	-1.849492738	0.000581747
mgp	ENSDARG00000086189	-1.849484232	0.023201433
mapk10	ENSDARG00000025747	-1.849424398	3.58E-08
rgs2	ENSDARG00000056875	-1.849264608	7.45E-05
ttnb	ENSDARG00000000563	-1.848887957	0.024218299
crtc1	ENSDARG00000076076	-1.848804731	0.001617709
ano9a	ENSDARG00000076320	-1.848717335	0.000281944
plxnb3	ENSDARG00000032990	-1.847945951	1.74E-07
si:ch211-236p5.2	ENSDARG00000086256	-1.847691597	0.001265792
si:ch73-95a24.1	ENSDARG00000096518	-1.84746789	0.035271639
acer3	ENSDARG00000093366	-1.846351586	0.002833545
kenh1a	ENSDARG00000024167	-1.846015341	0.002993399
BX001033.2	ENSDARG00000090375	-1.845512838	0.029246988
kena6	ENSDARG00000046014	-1.845288282	0.005183093
glra4b	ENSDARG00000058103	-1.844462929	0.000525393

bcl2	ENSDARG00000025613	-1.84374476	0.00029426
dusp2	ENSDARG00000036572	-1.843645374	1.37E-06
BRSK1 (1 of 2)	ENSDARG00000077124	-1.843550375	1.62E-05
zgc:152951	ENSDARG00000068663	-1.843318549	0.002179749
phlda2	ENSDARG00000042874	-1.842528961	2.54E-07
KCNAB3	ENSDARG00000074320	-1.842236962	0.000702464
igdcc4	ENSDARG00000076919	-1.841579481	5.36E-08
si:dkey-45d16.4	ENSDARG00000096421	-1.840669706	0.0325342
ITGA4	ENSDARG00000061186	-1.840514588	0.000578712
tbc1d22b	ENSDARG00000026988	-1.839904812	0.004081556
PARM1	ENSDARG00000090996	-1.839853949	0.037826614
si:ch73-373m9.1	ENSDARG00000067912	-1.839087279	0.000103618
ptx4	ENSDARG00000038072	-1.838889099	6.29E-09
MAP4K2 (1 of 3)	ENSDARG00000033444	-1.838807106	1.09E-06
ZDHHC5 (2 of 2)	ENSDARG00000087417	-1.838488773	2.57E-08
ppm1e	ENSDARG00000026499	-1.837742401	2.87E-07
cnga5	ENSDARG00000060287	-1.837202116	0.02383458
TBC1D9B	ENSDARG00000043627	-1.837180743	0.003362905
micall1	ENSDARG00000011809	-1.837040581	1.05E-05
sptssa	ENSDARG00000071203	-1.836968071	1.28E-07
GRM5 (2 of 2)	ENSDARG00000075227	-1.836874184	0.003402835
CR478286.1	ENSDARG00000079238	-1.835010388	0.00840651
hig1	ENSDARG00000022303	-1.834486093	1.24E-09
FMNL1 (2 of 2)	ENSDARG00000075519	-1.834356055	0.013936612
ACVR1B (1 of 2)	ENSDARG00000052142	-1.834244974	0.001385475
fam129ba	ENSDARG00000062970	-1.833840166	5.27E-08
si:ch211-229i10.10	ENSDARG00000090233	-1.833268037	0.046405499
CABZ01069020.1	ENSDARG00000088367	-1.83299284	0.041853407
CU570983.1	ENSDARG00000079808	-1.832588107	0.039635407
CABZ01012080.1	ENSDARG00000053454	-1.831687918	0.000117282
ndel1b	ENSDARG00000038190	-1.831493491	6.50E-05
si:dkey-24p1.1	ENSDARG00000039096	-1.828154227	0.033670309
CR753886.1	ENSDARG00000090548	-1.827948137	0.000607132
abcg1	ENSDARG00000063475	-1.82788132	1.38E-05
LPHN3 (1 of 2)	ENSDARG00000090624	-1.827770939	1.38E-05
C22H6orf89	ENSDARG00000078301	-1.827515258	0.000815285
BRSK2 (2 of 2)	ENSDARG00000061421	-1.827434548	9.63E-05
spag1a	ENSDARG00000004017	-1.826925697	1.83E-08
C17H2orf71 (1 of 2)	ENSDARG00000037656	-1.826863453	0.00697464
klhl24	ENSDARG00000021739	-1.826799304	1.02E-06
PPP1R14C (1 of 2)	ENSDARG00000077341	-1.826512194	1.31E-06
ASXL2	ENSDARG00000076501	-1.824877201	1.33E-06
SGMS1 (2 of 2)	ENSDARG00000057053	-1.824718453	9.46E-09
tspan3b	ENSDARG00000053559	-1.823556825	1.39E-05
clcn5	ENSDARG00000022466	-1.823480744	3.26E-05
zgc:113102	ENSDARG00000058827	-1.822885149	0.018482364

CABZ01087549.1	ENSDARG00000059134	-1.821985288	0.00092331
sacs	ENSDARG00000062627	-1.821675665	3.83E-06
arrdc1b	ENSDARG00000079839	-1.821660402	9.18E-07
si:dkey-192j17.1	ENSDARG00000088842	-1.821480519	0.00252407
stxbp5b	ENSDARG00000029234	-1.820903075	7.80E-08
epha4b	ENSDARG00000011600	-1.820453214	1.73E-07
tefa	ENSDARG00000039117	-1.820369288	1.15E-10
kcnq3	ENSDARG00000060085	-1.820030606	0.001221952
ccdc64	ENSDARG00000074761	-1.819542038	0.000806454
RASSF3	ENSDARG00000059064	-1.818567505	1.66E-05
st6galnac3	ENSDARG00000058473	-1.818447228	0.000136775
dlc	ENSDARG00000002336	-1.818406285	3.72E-09
prodha	ENSDARG00000044804	-1.818350242	4.75E-06
ATP8B4	ENSDARG00000079453	-1.817854691	0.000130329
CR847851.6	ENSDARG00000088669	-1.817223837	0.023246739
RGL3 (2 of 2)	ENSDARG00000022185	-1.816806386	0.010766363
AL935268.1	ENSDARG00000074494	-1.816184179	0.014786056
ube3b	ENSDARG00000061960	-1.815802275	4.06E-05
zgc:113090	ENSDARG00000053260	-1.815525329	0.001646858
igf2bp1	ENSDARG00000061478	-1.815449303	3.24E-10
zbtb2a	ENSDARG00000044038	-1.814300049	0.012821121
	ENSDARG00000089696	-1.813742668	0.029324808
si:dkey-27h10.2	ENSDARG00000094485	-1.812915951	0.036246099
fam160a1	ENSDARG00000061021	-1.812331016	7.43E-05
SEMA4G	ENSDARG00000088143	-1.812299712	0.014272339
manba	ENSDARG00000008238	-1.811834599	0.009815725
si:ch211-89o9.4	ENSDARG00000093237	-1.811786076	0.000186111
BX511174.1	ENSDARG00000087295	-1.811543934	0.028055584
RAPGEFL1	ENSDARG00000079912	-1.810129947	1.23E-08
stx11a	ENSDARG00000044039	-1.809924864	0.005458626
UNC80	ENSDARG00000079480	-1.808275247	2.27E-05
igf1rb	ENSDARG00000034434	-1.807274176	1.41E-06
mthfd11	ENSDARG00000042221	-1.806796381	7.60E-10
ssh1a	ENSDARG00000056780	-1.806228725	0.000691814
dtbb	ENSDARG00000013020	-1.805936843	1.09E-05
sik2a	ENSDARG00000079618	-1.805666759	0.000134059
BX255895.1	ENSDARG00000079670	-1.805178041	1.59E-08
golga7ba	ENSDARG00000036295	-1.805078968	0.000709252
rasgrf2b	ENSDARG00000002816	-1.804780734	0.001733953
pcgf5a	ENSDARG00000071007	-1.804757192	0.001132754
hmbox1b	ENSDARG00000018913	-1.804250764	0.001930915
zgc:113279	ENSDARG00000058263	-1.803122234	5.74E-06
znf800b	ENSDARG00000039843	-1.803087432	6.18E-06
	ENSDARG00000029296	-1.802098195	2.13E-06
si:ch211-236p5.3	ENSDARG00000086418	-1.801848928	0.005842051
PDE2A (2 of 3)	ENSDARG00000079064	-1.801649065	0.002285813
CABZ01024684.1	ENSDARG00000090906	-1.801637236	0.001595933

wnt9a	ENSDARG00000063437	-1.801474311	0.014919942
CR847851.8	ENSDARG00000089297	-1.801432778	0.026053767
XYLT2	ENSDARG00000059557	-1.80129014	0.006731645
pkp1b	ENSDARG00000052705	-1.799148727	2.08E-05
CACNA2D1 (2 of 3)	ENSDARG00000040406	-1.799135306	0.036230688
MUC13 (2 of 2)	ENSDARG00000091834	-1.79842329	1.42E-08
adcy1b	ENSDARG00000088634	-1.798260703	3.64E-07
klf6a	ENSDARG00000029072	-1.797728523	6.64E-10
nacad	ENSDARG00000012347	-1.796695436	5.59E-08
nr2e3	ENSDARG00000045904	-1.796469101	2.14E-05
PDE8B	ENSDARG00000063706	-1.795849239	0.000165247
kenk10a	ENSDARG00000062849	-1.795210708	2.61E-05
pkp3	ENSDARG00000051861	-1.794681785	2.39E-09
ncanb	ENSDARG00000005783	-1.793597606	1.49E-06
bcl2l1	ENSDARG00000008434	-1.793485885	7.94E-09
CABZ01073963.1	ENSDARG00000086919	-1.792545885	0.022140893
otx5	ENSDARG00000043483	-1.792533721	0.000207182
aff2	ENSDARG00000052242	-1.792518065	1.44E-07
rem2	ENSDARG00000074064	-1.792210751	0.000283523
atp10a	ENSDARG00000061039	-1.792178383	0.002102716
hic1l	ENSDARG00000045660	-1.790292209	8.88E-07
slc1a2a	ENSDARG00000052138	-1.790183233	0.000327892
tmprss3a	ENSDARG00000090562	-1.789645198	0.042587634
si:dkey-149f22.2	ENSDARG00000092351	-1.78959993	0.016717169
CABZ01076351.1	ENSDARG00000075865	-1.788706261	8.76E-07
CSPP1 (1 of 2)	ENSDARG00000058950	-1.787823815	0.000305809
FHOD3 (2 of 2)	ENSDARG00000063682	-1.787402079	7.44E-08
opcml	ENSDARG00000013005	-1.785908839	0.000416162
tcap	ENSDARG00000007344	-1.785852127	7.65E-06
si:ch211-120c15.2	ENSDARG00000093500	-1.785713214	0.001530556
hspbpl	ENSDARG00000007665	-1.785517807	2.89E-06
BX323051.1	ENSDARG00000052164	-1.785121272	0.001961193
f3a	ENSDARG00000021013	-1.784873021	0.000251908
ITGA2 (1 of 2)	ENSDARG00000062974	-1.784697538	0.000469305
si:dkeyp-31a2.1	ENSDARG00000093107	-1.784627003	0.025419896
PSD (1 of 2)	ENSDARG00000076702	-1.784580153	0.00479323
rgs5b	ENSDARG00000017860	-1.784495335	0.000494238
si:dkey-238m4.3	ENSDARG00000095062	-1.784491031	0.00478339
sertad2a	ENSDARG00000093412	-1.783701666	0.001087344
irs2	ENSDARG00000075282	-1.783305655	3.93E-08
MAP3K2	ENSDARG00000062884	-1.782854232	7.49E-05
hs3st4	ENSDARG00000052648	-1.78280811	0.001111779
ppm1f	ENSDARG00000005786	-1.78211096	0.031917085
lrrfip1b	ENSDARG00000095170	-1.781660079	1.04E-07
si:ch211-217k17.9	ENSDARG00000093494	-1.781098056	4.05E-06
dhrs11a	ENSDARG00000046090	-1.781073144	0.025383978

RPS6KL1	ENSDARG00000079024	-1.780980275	3.27E-06
thbs1b	ENSDARG00000010785	-1.78065645	4.29E-10
tacc1	ENSDARG00000073753	-1.780646575	4.24E-05
	ENSDARG00000086698	-1.780642671	0.00211576
chka	ENSDARG00000041078	-1.780494625	1.14E-06
FRMPD3	ENSDARG00000074865	-1.780383442	8.30E-08
hif1aa	ENSDARG00000006181	-1.780373714	2.16E-05
ptprdb	ENSDARG00000019945	-1.780326573	1.03E-08
diaph2	ENSDARG00000076060	-1.780280616	3.70E-05
SOGA2	ENSDARG00000091408	-1.779644234	1.23E-05
slc43a1a	ENSDARG00000037393	-1.779150689	2.05E-07
chpfa	ENSDARG00000078392	-1.777737515	3.61E-06
CU633988.1	ENSDARG00000079884	-1.777661092	0.014239514
rassf4	ENSDARG00000012460	-1.777440395	0.006110693
	ENSDARG00000088521	-1.776369955	0.01754678
irf3	ENSDARG00000076251	-1.776099871	0.003393705
adcy1a	ENSDARG00000068890	-1.774744468	0.001751138
ino80da	ENSDARG00000078199	-1.774181601	0.002101997
nin	ENSDARG00000060298	-1.77409319	1.07E-05
b3gnt7l	ENSDARG00000053133	-1.774091901	1.76E-06
si:dkey-54i3.4	ENSDARG00000088321	-1.773547749	0.017217362
si:dkey-58f10.9	ENSDARG00000093326	-1.773200397	0.046418342
PPP1R27 (1 of 2)	ENSDARG00000060265	-1.77229271	0.001384847
slc25a18	ENSDARG00000070717	-1.77200036	0.000116774
XKR6 (1 of 2)	ENSDARG00000020443	-1.771992181	0.02033893
si:dkey-230p4.1	ENSDARG00000020834	-1.771489423	8.95E-06
CR774179.1	ENSDARG00000086969	-1.771336716	0.004828227
tph1b	ENSDARG00000036082	-1.771188419	0.000310252
HDAC5	ENSDARG00000075139	-1.770389578	3.30E-05
igsf9bb	ENSDARG00000069467	-1.769771148	0.000468558
si:ch211-207c6.5	ENSDARG00000093054	-1.769559518	0.000405711
pcdh1g9	ENSDARG00000043951	-1.769272412	0.040710689
lgals1b	ENSDARG00000055525	-1.769212489	0.021065533
sema4ba	ENSDARG00000074414	-1.769188118	6.61E-08
pmepa1	ENSDARG00000039325	-1.769118246	0.002353116
disc1	ENSDARG00000021895	-1.769055728	0.000153613
nt5dc3	ENSDARG00000062949	-1.768946801	0.005993333
opn3	ENSDARG00000052775	-1.768738199	0.000372889
guca1e	ENSDARG00000078384	-1.768265452	0.017539435
si:dkey-4c15.9	ENSDARG00000092152	-1.767599449	0.046212525
TRIM65	ENSDARG00000077098	-1.767146782	0.008655686
PPAPDC3 (2 of 2)	ENSDARG00000052033	-1.76588547	0.008069538
CR751224.2	ENSDARG00000087398	-1.765765667	0.002546113
FRMPD1 (6 of 6)	ENSDARG00000091264	-1.765436526	0.00087177
CR954145.1	ENSDARG00000057399	-1.765059113	0.000780473
zgc:172282	ENSDARG00000075231	-1.765010478	2.39E-05
lppr4b	ENSDARG00000078755	-1.764980295	0.005252642

si:dkey-22l11.6	ENSDARG00000070126	-1.764690581	0.019009947
nfasca	ENSDARG00000061099	-1.76462964	1.20E-07
si:dkey-15h8.14	ENSDARG00000093241	-1.764474862	0.024094921
six6a	ENSDARG00000025187	-1.763793693	0.002101768
RSPH1	ENSDARG00000070446	-1.763785131	8.17E-08
ubtf	ENSDARG00000035066	-1.763294745	1.06E-09
AL935296.1	ENSDARG00000069995	-1.763161431	0.015433578
SFTPB (2 of 2)	ENSDARG00000094708	-1.763119502	0.000307084
ctgfa	ENSDARG00000042934	-1.762090954	1.91E-06
dennd6aa	ENSDARG00000030239	-1.761911537	0.022133658
BX323064.1	ENSDARG00000079059	-1.760511835	0.001503586
CAMKK1 (2 of 2)	ENSDARG00000015134	-1.759865632	3.80E-05
BRSK2 (1 of 2)	ENSDARG00000077791	-1.759865486	1.26E-07
arl14	ENSDARG00000063223	-1.759732722	0.001073769
FAM46A (1 of 2)	ENSDARG00000037183	-1.759661644	0.009243508
glula	ENSDARG00000069054	-1.75921071	5.35E-10
kcj1a.3	ENSDARG00000086248	-1.75886569	0.014110869
prkcz	ENSDARG00000043332	-1.758414791	8.44E-06
MKL1 (2 of 2)	ENSDARG00000075867	-1.75740861	0.010892968
si:dkey-23o4.5	ENSDARG00000093784	-1.757122882	0.001785851
ranbp3	ENSDARG00000008727	-1.756868081	0.000462368
si:dkeyp-106c3.3	ENSDARG00000093159	-1.756276415	0.006849324
tmem63bb	ENSDARG00000078744	-1.755804641	0.000371738
PVRL4 (1 of 3)	ENSDARG00000077419	-1.755804628	1.67E-05
si:dkey-114e9.1	ENSDARG00000090974	-1.755485978	0.033056161
ARHGAP23 (1 of 2)	ENSDARG00000052950	-1.755044211	1.91E-08
stmn4l	ENSDARG00000043932	-1.754679054	8.28E-08
CU627988.1	ENSDARG00000088197	-1.75452443	0.041943652
dck11b	ENSDARG00000074976	-1.754368445	1.09E-05
si:ch211-87m7.2	ENSDARG00000030129	-1.754203096	0.002160121
CABZ01032468.1	ENSDARG00000095030	-1.754013945	5.60E-05
CNOT6 (2 of 2)	ENSDARG00000022001	-1.753619937	0.001076485
ANKRD11	ENSDARG00000051886	-1.753560293	2.16E-09
MAL (2 of 3)	ENSDARG00000043442	-1.75347661	2.49E-07
DOCK4 (2 of 2)	ENSDARG00000076213	-1.75336029	8.96E-07
si:dkey-8k3.1	ENSDARG00000094594	-1.75318989	0.021555018
FMN2 (2 of 2)	ENSDARG00000023318	-1.752348872	0.016098664
atrnl1a	ENSDARG00000077188	-1.752074098	1.52E-06
SIPA1	ENSDARG00000076697	-1.751586037	1.25E-05
adamts15a	ENSDARG00000029124	-1.751408151	2.81E-06
FBXO10 (1 of 2)	ENSDARG00000061936	-1.751333898	0.003581481
si:dkey-122c11.8	ENSDARG00000094101	-1.750608829	0.042916504
ano6	ENSDARG00000061544	-1.750270484	0.002063441
CABZ01090021.1	ENSDARG00000075274	-1.750188359	8.63E-05
klhl5	ENSDARG00000062122	-1.750119762	0.000315188
nckap5l	ENSDARG00000079148	-1.750103346	6.82E-08

zgc:173577	ENSDARG00000087593	-1.7499811	0.00048939
CERKL	ENSDARG00000079397	-1.749665078	0.011558962
si:ch211-232i5.3	ENSDARG00000086874	-1.749562302	0.000808178
BX640398.1	ENSDARG00000090340	-1.749053807	0.000670595
pip4k2ab	ENSDARG00000063544	-1.748777339	0.000103211
fmdl2a	ENSDARG00000012586	-1.748255244	1.28E-05
SOBP (3 of 3)	ENSDARG00000093437	-1.748180923	8.14E-05
CABZ01057951.1	ENSDARG00000090569	-1.748140101	0.008564277
PHF21B (2 of 2)	ENSDARG00000087887	-1.747830636	0.021014867
tnr	ENSDARG00000020771	-1.747761079	2.02E-07
ELMSAN1 (1 of 2)	ENSDARG00000053864	-1.747753457	7.65E-08
slc45a3	ENSDARG00000075975	-1.747627064	0.007997626
BCL2L12	ENSDARG00000090625	-1.747609021	0.001307919
DGKG	ENSDARG00000062696	-1.747593792	0.00046048
MLL3 (2 of 3)	ENSDARG00000092971	-1.747562698	0.001484912
slc2a4rg	ENSDARG00000077762	-1.747126948	0.001417256
sdc3	ENSDARG00000088962	-1.746874675	8.44E-08
cep78	ENSDARG00000039229	-1.746444642	0.001732892
RAP1GDS1	ENSDARG00000073741	-1.746401149	0.000869172
zgc:174623	ENSDARG00000067501	-1.746383212	0.009943887
MYOM3	ENSDARG00000059838	-1.745213736	0.048326411
FBXL3 (1 of 2)	ENSDARG00000078003	-1.745047108	1.61E-07
zgc:123068	ENSDARG00000017489	-1.745012681	0.00971234
APOLD1 (4 of 4)	ENSDARG00000023185	-1.745011262	0.001025305
csnnp1b	ENSDARG00000038429	-1.744937726	6.06E-07
ADAM12	ENSDARG00000079068	-1.744744576	0.000976835
si:ch73-27e22.5	ENSDARG00000093051	-1.744387491	0.031966279
pclob	ENSDARG00000012482	-1.744255994	4.18E-07
tln2	ENSDARG00000017901	-1.743431104	1.97E-07
cpne4	ENSDARG00000062754	-1.743344785	0.000667414
zbtb47b	ENSDARG00000079547	-1.743275128	0.002561372
slc43a2b	ENSDARG00000061120	-1.742793499	1.90E-09
SEC16A	ENSDARG00000063300	-1.742666107	0.011355432
ADM (1 of 2)	ENSDARG00000015263	-1.742207871	1.08E-05
zgc:174888	ENSDARG00000077176	-1.741907422	0.000296468
CR388051.1	ENSDARG00000033840	-1.741260779	3.31E-06
dusp8a	ENSDARG00000009299	-1.741024365	7.40E-09
si:dkey-20i20.14	ENSDARG00000071833	-1.739652351	0.005170008
VPS37D	ENSDARG00000093632	-1.739593683	0.033643013
mylipa	ENSDARG00000008859	-1.739363158	1.25E-06
si:dkey-97a13.12	ENSDARG00000095649	-1.739356625	0.008896654
ptprnb	ENSDARG00000077047	-1.739284103	0.001912262
	ENSDARG00000091739	-1.738076028	0.006342163
myd88	ENSDARG00000010169	-1.737920918	0.0004283
UNC13C (1 of 4)	ENSDARG00000087669	-1.73786721	0.00108034
SYT17	ENSDARG00000060741	-1.737726429	0.009573465
pck1	ENSDARG00000013522	-1.737680927	5.23E-08

ubb	ENSDARG00000093313	-1.73700137	0.000282946
rnf126	ENSDARG00000088454	-1.736883614	0.005672686
hipk2	ENSDARG00000042518	-1.736483201	2.51E-08
si:ch211-274p24.4	ENSDARG00000087088	-1.736442875	0.000376015
DTX4 (2 of 2)	ENSDARG00000078016	-1.735439978	0.006132227
chrn2a	ENSDARG00000055577	-1.735015993	0.000171625
tnk1	ENSDARG00000069433	-1.73428758	7.92E-07
tnpo1	ENSDARG00000035390	-1.733597806	8.58E-08
rbbp8	ENSDARG00000043480	-1.733259323	0.002984589
BSN	ENSDARG00000086319	-1.733191604	0.00434969
trps1	ENSDARG00000068028	-1.733096494	6.47E-07
coro7	ENSDARG00000028513	-1.732874569	0.00033907
edn1	ENSDARG00000036912	-1.732840796	0.00466893
pi15a	ENSDARG00000045378	-1.732595438	0.049205569
tank	ENSDARG00000067723	-1.731891268	0.006807344
cdk5r2b	ENSDARG00000078671	-1.731549294	0.00039311
PDK2 (1 of 2)	ENSDARG00000020876	-1.731484961	6.24E-07
si:dkey-215k6.1	ENSDARG00000062538	-1.731287542	5.90E-05
si:dkey-14o6.6	ENSDARG00000077485	-1.731161445	0.001318358
si:ch211-264f5.6	ENSDARG00000079372	-1.730970383	2.80E-07
mat2aa	ENSDARG00000040334	-1.730796265	1.77E-09
e2f7	ENSDARG00000008986	-1.730718088	0.000129854
si:ch211-210g13.5	ENSDARG00000062575	-1.730533378	6.01E-05
stc11	ENSDARG00000058476	-1.730419555	0.00011321
CABZ01089918.1	ENSDARG00000086952	-1.730267515	0.015596065
adam17b	ENSDARG00000093093	-1.729581315	3.27E-05
si:ch211-217k17.8	ENSDARG00000095434	-1.729496502	0.000539299
rundc3b	ENSDARG00000009961	-1.729204183	0.040925781
EHBP1L1 (2 of 2)	ENSDARG00000057353	-1.728834548	9.73E-05
C8H20orf112 (2 of 2)	ENSDARG00000074902	-1.728150417	5.98E-05
svopa	ENSDARG00000056833	-1.727668427	0.000330718
zfyve28	ENSDARG00000060430	-1.727077612	1.41E-05
daam2	ENSDARG00000028393	-1.725977543	0.001843121
cntn4	ENSDARG00000019405	-1.725780538	6.36E-07
otud7b	ENSDARG00000017220	-1.725683199	2.44E-07
rimkla	ENSDARG00000016830	-1.725590078	6.85E-09
si:ch211-136m16.8	ENSDARG00000090767	-1.724482685	0.00431016
C5H5orf34	ENSDARG00000092445	-1.723792076	0.03807055
KIF25	ENSDARG00000017532	-1.723423443	0.001680485
KAL1 (2 of 2)	ENSDARG00000087064	-1.723125986	0.00043722
KCNG3	ENSDARG00000061622	-1.723122367	0.018522058
midn	ENSDARG00000018524	-1.723004635	1.08E-08
MXRA5 (2 of 2)	ENSDARG00000076309	-1.722788947	0.034113106
lrp1ba	ENSDARG00000004789	-1.722037629	7.59E-07
CABZ01117832.1	ENSDARG00000091107	-1.721323136	0.004551999
zgc:152863	ENSDARG00000069338	-1.721262511	0.000565448

pprc1	ENSDARG00000090337	-1.720573838	3.71E-05
	ENSDARG00000079822	-1.720338545	6.64E-06
st6galnac5a	ENSDARG00000039220	-1.720300844	0.002479155
P2RY6	ENSDARG00000042595	-1.720287474	0.00570216
TGFBR2 (2 of 2)	ENSDARG00000059363	-1.719845982	0.001501248
LRIT3 (1 of 2)	ENSDARG00000055463	-1.719787402	4.72E-05
nfixa	ENSDARG00000043226	-1.719519774	1.39E-05
ehbp111b	ENSDARG00000079895	-1.719295088	2.68E-06
plin2	ENSDARG00000042332	-1.718759378	0.006562445
CABZ01045230.1	ENSDARG00000089661	-1.718683839	0.037000767
CDH24 (1 of 2)	ENSDARG00000077996	-1.717825616	3.29E-06
sall4	ENSDARG00000044485	-1.717580172	3.08E-06
myh6	ENSDARG00000090637	-1.71741778	5.57E-05
adamts9	ENSDARG00000077778	-1.71644821	2.58E-05
kenk5b	ENSDARG00000012390	-1.71598759	0.000485346
traf2b	ENSDARG00000017812	-1.715671029	2.53E-05
KIF21B	ENSDARG00000009733	-1.715571533	0.001048245
rab27a	ENSDARG00000040532	-1.715406717	1.38E-05
gdpd5a	ENSDARG00000077284	-1.715048193	0.000515113
nudt3b	ENSDARG00000042123	-1.712285522	0.001664578
zgc:163061	ENSDARG00000075538	-1.71177233	0.036232864
rhpnl	ENSDARG00000052454	-1.711634663	0.023683154
FBXO31	ENSDARG00000062195	-1.711477117	6.53E-05
CABZ01072338.1	ENSDARG00000062513	-1.710762451	0.003573881
si:dkey-179o14.1	ENSDARG00000078902	-1.710668275	4.24E-05
FEZ2 (1 of 2)	ENSDARG00000073784	-1.709547379	4.87E-06
si:ch211-71k24.5	ENSDARG00000077656	-1.709436769	0.001012346
b3gat1	ENSDARG00000040547	-1.709433331	0.000570446
plekhm1	ENSDARG00000063247	-1.70928902	5.75E-06
PACS1 (1 of 3)	ENSDARG00000019800	-1.709228286	7.28E-07
CABZ01083834.1	ENSDARG00000091499	-1.70918563	0.017136728
rictora	ENSDARG00000059414	-1.709057746	1.05E-05
NEURL1B	ENSDARG00000029452	-1.709028398	8.14E-06
bokb	ENSDARG00000008807	-1.708934474	0.025395896
si:ch73-266f23.2	ENSDARG00000054957	-1.708909537	3.87E-06
tlr5b	ENSDARG00000052322	-1.708390327	0.034893181
dvr1	ENSDARG00000037995	-1.707779455	0.036870589
si:rp71-26b20.1	ENSDARG00000095432	-1.707483931	0.0223891
si:dkey-283b15.3	ENSDARG00000089435	-1.707111999	0.000325213
si:dkey-29p23.3	ENSDARG00000094175	-1.707047107	0.020976983
C5H9orf172 (1 of 2)	ENSDARG00000076268	-1.70686383	3.39E-05
CABZ01067098.1	ENSDARG00000023916	-1.706629909	5.08E-06
RPH3A (1 of 2)	ENSDARG00000076712	-1.706625743	0.000363306
PDE2A (1 of 3)	ENSDARG00000091508	-1.706566189	0.046983272
rnd11	ENSDARG00000004218	-1.705988091	4.49E-05
smox	ENSDARG00000036967	-1.705966326	1.21E-08

si:dkeyp-4f2.4	ENSDARG00000088378	-1.705411672	0.000322512
CABZ01069042.1	ENSDARG00000088996	-1.704380438	0.03697332
bai2	ENSDARG00000025667	-1.704043551	1.03E-05
si:dkey-196j8.2	ENSDARG00000093874	-1.702732223	0.040849949
lztfl1	ENSDARG00000041997	-1.702650856	0.040613631
tmem120a	ENSDARG00000030914	-1.702329631	0.000120557
plk3	ENSDARG00000038754	-1.702210355	1.43E-07
fech	ENSDARG00000003462	-1.701778405	0.000377218
TBC1D12	ENSDARG00000073771	-1.701692567	3.72E-06
si:ch73-359p15.1	ENSDARG00000096662	-1.701246123	1.92E-06
tfe3b	ENSDARG00000019457	-1.701140485	0.005230555
si:ch211-195b13.1	ENSDARG00000016623	-1.700476441	1.26E-07
rora	ENSDARG00000031768	-1.700414958	1.50E-06
gria1a	ENSDARG00000021352	-1.700223328	5.12E-07
TMEM182 (2 of 2)	ENSDARG00000087285	-1.700082545	0.031212912
CLIP1	ENSDARG00000079483	-1.700067511	4.00E-06
iqsec3a	ENSDARG00000075792	-1.699955166	4.39E-07
AL807798.3	ENSDARG00000088736	-1.699872262	0.011876993
ugt5a5	ENSDARG00000051805	-1.699601334	0.006758558
edil3b	ENSDARG00000060877	-1.699148269	0.003131693
ppp2r5a	ENSDARG00000027017	-1.698860848	9.98E-05
kenj1a.5	ENSDARG00000089060	-1.698398425	0.028472835
rassf6	ENSDARG00000000804	-1.698014892	8.01E-06
ZBTB16 (2 of 2)	ENSDARG00000074526	-1.697854938	0.006338206
man1b1	ENSDARG00000076592	-1.697745535	0.001345042
si:ch211-162i8.1	ENSDARG00000096155	-1.697067777	0.003012373
fam73b	ENSDARG00000089357	-1.695947704	0.00322704
ARMC6	ENSDARG00000060763	-1.69593904	0.000378468
APOLD1 (2 of 4)	ENSDARG00000089961	-1.695386053	0.019387231
zgc:153952	ENSDARG00000015922	-1.694427801	3.56E-05
MLXIPL	ENSDARG00000089107	-1.69396166	0.001420983
slc38a3a	ENSDARG00000027065	-1.69363541	4.87E-08
cables2a	ENSDARG00000076964	-1.693284955	6.50E-05
si:dkey-192d15.2	ENSDARG00000043770	-1.692565161	0.032291323
gfer	ENSDARG00000070061	-1.691420405	1.98E-06
cux2b	ENSDARG00000086345	-1.691379668	9.03E-05
FAXC (2 of 2)	ENSDARG00000075956	-1.69060246	0.000496566
kremen1	ENSDARG00000062579	-1.690330099	0.002772116
irf8	ENSDARG00000056407	-1.69021334	0.020441981
myh14	ENSDARG00000073732	-1.689993291	1.09E-07
RPTOR	ENSDARG00000059879	-1.689896547	0.002012336
cacng5a	ENSDARG00000003326	-1.689826516	0.002204973
tbx4	ENSDARG00000030058	-1.689770732	0.012169774
dfnb31a	ENSDARG00000075362	-1.688800491	6.57E-05
CR854881.4	ENSDARG00000089990	-1.688639781	7.36E-07
ryr1b	ENSDARG00000023797	-1.687230311	7.47E-08
RNF38	ENSDARG00000062055	-1.687199298	4.81E-07

MKL2 (3 of 3)	ENSDARG00000076867	-1.686001716	2.85E-05
slc1a5	ENSDARG00000016465	-1.685914485	2.16E-06
mcf2b	ENSDARG00000056603	-1.685039855	0.00061355
pcf11	ENSDARG00000044625	-1.684993402	7.46E-08
cp	ENSDARG00000010312	-1.684288277	1.02E-07
zgc:111868	ENSDARG00000052879	-1.683512976	0.045084871
rela	ENSDARG00000021907	-1.683502584	1.59E-05
timp2b	ENSDARG00000075261	-1.683190283	0.014753477
si:dkey-7i4.1	ENSDARG00000086897	-1.683026508	0.035581317
si:dkey-156k2.3	ENSDARG00000090160	-1.682553705	0.028495318
sh3gl3a	ENSDARG00000013360	-1.682446484	0.001161676
mpp1	ENSDARG00000031475	-1.682411014	2.87E-08
MYADM (2 of 2)	ENSDARG00000086815	-1.682338214	0.003659285
si:ch211-74m13.3	ENSDARG00000076144	-1.682333347	6.45E-06
stat2	ENSDARG00000031647	-1.682194842	1.68E-05
zgc:165603	ENSDARG00000078665	-1.682042673	0.033264359
tshr	ENSDARG00000037195	-1.680876151	0.011791748
mfsd2b	ENSDARG00000030263	-1.680663562	0.000153124
htr2a	ENSDARG00000057029	-1.680485286	0.04818262
SEZ6	ENSDARG00000079414	-1.680318521	5.16E-07
znf395b	ENSDARG00000024195	-1.68009363	8.23E-07
tmx4	ENSDARG00000053942	-1.679800493	0.001100919
si:ch211-105c13.3	ENSDARG00000089441	-1.679440726	0.000743113
KRCC1	ENSDARG00000074415	-1.679248497	0.0044669
ITGA2 (2 of 2)	ENSDARG00000086838	-1.679177258	0.004055918
SV2C (1 of 2)	ENSDARG00000086965	-1.678739558	0.011781408
cers6	ENSDARG00000053583	-1.678454142	0.006783047
nfkbie	ENSDARG00000068367	-1.678137711	0.004143788
stk16	ENSDARG00000037777	-1.677563557	0.000101101
CR382298.3	ENSDARG00000052118	-1.677383265	0.000217668
grin2db	ENSDARG00000070620	-1.676808615	9.34E-05
gabbr1b	ENSDARG00000016667	-1.675753367	1.18E-06
sult1st8	ENSDARG00000094996	-1.674780743	0.047055469
LRRTM4 (2 of 4)	ENSDARG00000078839	-1.674492765	0.001660822
ELL3	ENSDARG00000038121	-1.673857542	0.000113036
psmc3ip	ENSDARG00000037892	-1.673472846	0.016158459
CR381684.1	ENSDARG00000009341	-1.672764837	2.77E-07
vgf	ENSDARG00000091371	-1.67274925	0.013668709
msi2b	ENSDARG00000032614	-1.672584354	2.07E-06
MYT1L (2 of 2)	ENSDARG00000006212	-1.672405238	1.86E-05
dennd1b	ENSDARG00000029374	-1.672216611	0.012357076
xpo6	ENSDARG00000041217	-1.671978227	2.43E-07
dnmt3aa	ENSDARG00000005394	-1.671976879	9.76E-06
atm	ENSDARG00000063465	-1.671833189	0.002905701
cldnh	ENSDARG00000069503	-1.671575304	9.85E-08
rx1	ENSDARG00000071684	-1.671087186	0.000568389
IRS4 (1 of 2)	ENSDARG00000052065	-1.670610188	4.28E-05

CU693440.1	ENSDARG00000058701	-1.669928327	0.002594154
sh3y11	ENSDARG00000074393	-1.669899853	0.000527305
tdo2b	ENSDARG00000023176	-1.669272542	0.013112526
CU302376.1	ENSDARG00000086027	-1.669114207	0.000380398
si:ch211-277g23.4	ENSDARG00000095476	-1.668998775	0.000538764
ubtd1a	ENSDARG00000007382	-1.668491283	0.006346094
GRAMD1B (2 of 2)	ENSDARG00000075383	-1.668418434	1.59E-05
ARHGAP18	ENSDARG00000074740	-1.668415736	0.000530068
arl5c	ENSDARG00000035719	-1.668348895	0.000117364
arhgap42a	ENSDARG00000056619	-1.668176724	2.21E-06
brca2	ENSDARG00000079015	-1.668164149	2.96E-05
ARHGAP42	ENSDARG00000010654	-1.668162678	0.001629404
tob1b	ENSDARG00000021372	-1.668057633	5.10E-08
cabp1b	ENSDARG00000033411	-1.667911732	0.001228454
thsd7ba	ENSDARG00000095022	-1.667176309	5.84E-05
apba1a	ENSDARG00000014105	-1.66712627	0.000304875
e2f8	ENSDARG00000057323	-1.666933683	1.15E-05
si:ch211-188c16.4	ENSDARG00000094248	-1.666765813	0.01042274
CR847510.1	ENSDARG00000075727	-1.666471891	0.012465074
mll3b	ENSDARG00000075560	-1.666346229	5.73E-08
arf3b	ENSDARG00000036998	-1.665365731	0.001803157
cyth3	ENSDARG00000007807	-1.665038683	2.71E-05
bmpr2b	ENSDARG00000020057	-1.664500584	4.34E-06
NAT14	ENSDARG00000090962	-1.664217613	0.003782904
camk2n1a	ENSDARG00000025855	-1.663770204	1.33E-07
kcnj14	ENSDARG00000075914	-1.663650084	0.045505277
arl8bb	ENSDARG00000070318	-1.663442734	0.014896914
pdyn	ENSDARG00000087798	-1.663033686	0.015502493
mef2bnb	ENSDARG00000071339	-1.662846682	0.001169616
mxr	ENSDARG00000026049	-1.662803059	0.028515705
fancg	ENSDARG00000024967	-1.662779203	0.002779628
gdnfa	ENSDARG00000039959	-1.662583112	0.002033186
kiss1ra	ENSDARG00000002728	-1.662303296	0.042395391
acvr2b	ENSDARG00000044422	-1.662157618	0.001325715
fam214a	ENSDARG00000040452	-1.662125494	7.27E-07
cdc42se1	ENSDARG00000023724	-1.661760213	3.93E-07
bcar1	ENSDARG00000056525	-1.661542097	0.000146999
zgc:114041	ENSDARG00000052109	-1.661407722	0.008085953
LAMA2	ENSDARG00000087250	-1.661368445	0.02305522
plce1	ENSDARG00000089601	-1.661320909	0.000373789
PHF15	ENSDARG00000053389	-1.661237002	0.004832412
sobpa	ENSDARG00000054253	-1.660950891	0.002106804
SLC29A1 (2 of 2)	ENSDARG00000054447	-1.660602694	0.008118039
rgs19	ENSDARG00000077385	-1.660368644	0.002600704
SLC24A2 (1 of 2)	ENSDARG00000063158	-1.660317281	0.000428727
si:ch73-27e22.6	ENSDARG00000031731	-1.659993443	0.000200861
GPATCH2	ENSDARG00000031064	-1.659765768	2.00E-05

CCDC150	ENSDARG00000090935	-1.659392351	0.005040225
tmem86a	ENSDARG00000044034	-1.659357137	0.001104837
neb	ENSDARG00000032630	-1.659064354	7.42E-05
TIFA	ENSDARG00000091111	-1.658806036	3.13E-06
SLC5A6 (1 of 2)	ENSDARG00000042859	-1.658444317	0.013194311
LRRK1 (1 of 2)	ENSDARG00000089483	-1.658233584	0.010109231
	ENSDARG00000033660	-1.657270606	0.0285813
pdyn	ENSDARG00000079395	-1.65721438	0.013422317
si:dkey-231j24.3	ENSDARG00000095819	-1.656937221	0.02372775
pfkfb4	ENSDARG00000055540	-1.656801501	3.19E-05
si:dkey-201c13.2	ENSDARG00000094696	-1.656449851	2.26E-06
LENG9	ENSDARG00000062374	-1.656401475	0.000197055
RORC	ENSDARG00000087195	-1.655252603	0.015953446
c1galt1b	ENSDARG00000055561	-1.654894211	6.71E-07
bag3	ENSDARG00000039486	-1.654523195	1.40E-05
GSK3B (2 of 2)	ENSDARG00000052468	-1.653933799	0.001711124
cacna1da	ENSDARG00000024004	-1.653740653	1.09E-06
si:ch73-21k16.5	ENSDARG00000078770	-1.653598327	8.14E-05
edil3	ENSDARG00000093413	-1.652851891	1.66E-05
BRD1 (2 of 2)	ENSDARG00000051798	-1.652383887	1.52E-06
ppm1ba	ENSDARG00000001888	-1.652238917	6.90E-05
fam108b1	ENSDARG00000035571	-1.651996173	0.000117504
klf6b	ENSDARG00000038561	-1.651723788	0.008106129
sh2d3cb	ENSDARG00000009081	-1.65139743	0.000313414
atp11a	ENSDARG00000008413	-1.65132157	6.43E-07
nfkbiab	ENSDARG00000007693	-1.650799412	0.000506157
uck1	ENSDARG00000022218	-1.650660384	0.001094351
cdh1	ENSDARG00000024371	-1.6504998	0.00076519
zgc:113162	ENSDARG00000052923	-1.650094359	4.94E-05
il13ra1	ENSDARG00000080020	-1.649626902	0.001097263
tmcc3	ENSDARG00000045525	-1.649459437	1.48E-06
spry4	ENSDARG00000068732	-1.649379518	1.48E-06
MYOM1 (1 of 2)	ENSDARG00000076821	-1.648611578	6.75E-08
hsf1	ENSDARG00000008818	-1.646870161	5.22E-06
acap3a	ENSDARG00000075990	-1.645698401	2.88E-06
CABZ01054405.1	ENSDARG00000089604	-1.6453791	0.008099885
nrbp2	ENSDARG00000032951	-1.6449147	6.03E-07
bbs9	ENSDARG00000079217	-1.644342904	0.000529665
pgbd5	ENSDARG00000011042	-1.6442096	0.001767174
BX640518.1	ENSDARG00000058565	-1.644152745	0.002274983
pard6a	ENSDARG00000069378	-1.643348296	3.41E-06
p4ha3	ENSDARG00000034058	-1.642366579	0.015059035
si:dkeyp-113d7.10	ENSDARG00000092359	-1.641821651	0.000164863
rtn4rl2b	ENSDARG00000037495	-1.641609306	0.004279193
RBFOX3 (1 of 3)	ENSDARG00000010083	-1.641547445	0.003133588
si:ch211-197f20.2	ENSDARG00000086182	-1.641530206	0.034900368
syt2a	ENSDARG00000025206	-1.641373831	0.009469478

CCDC181	ENSDARG00000062021	-1.641224461	0.015764974
gnb1l	ENSDARG00000036293	-1.641222758	0.020426586
adarb2	ENSDARG00000071823	-1.640890342	0.000242233
mxdl	ENSDARG00000032039	-1.640831411	5.03E-05
si:dkey-177p2.5	ENSDARG00000095639	-1.640806954	5.12E-06
PHF1	ENSDARG00000057439	-1.640439849	0.040482025
MTBP	ENSDARG00000090447	-1.639613405	0.000378086
traf6	ENSDARG00000028058	-1.63938762	0.000249466
bcl2l1l	ENSDARG00000079144	-1.639361436	0.021889031
sgk494b	ENSDARG00000086169	-1.63894595	0.003346877
kat2b	ENSDARG00000062634	-1.638825378	0.002667249
zgc:153723	ENSDARG00000007769	-1.638260915	0.032061226
STRN	ENSDARG00000060595	-1.637435461	4.66E-05
mucms1	ENSDARG00000069566	-1.637299498	0.013019161
stk40	ENSDARG00000060318	-1.636965227	8.51E-06
gabra1	ENSDARG00000068989	-1.636131722	2.51E-06
nat8l	ENSDARG00000077256	-1.635220575	1.87E-07
IQSEC1 (2 of 2)	ENSDARG00000073822	-1.634977378	0.000116187
AFF3	ENSDARG00000079575	-1.634884786	4.61E-05
CR356223.4	ENSDARG00000094872	-1.633985013	0.041524283
TMEM74 (1 of 2)	ENSDARG00000091623	-1.633889384	0.006459527
CR678040.1	ENSDARG00000063007	-1.632887824	1.52E-07
CDR2 (1 of 2)	ENSDARG00000035952	-1.632532908	0.007256025
trdn	ENSDARG00000041779	-1.632266198	2.25E-05
tmem240	ENSDARG00000087916	-1.631955655	0.003035792
CU570976.1	ENSDARG00000059473	-1.630967476	1.81E-05
nrxn1a	ENSDARG00000061647	-1.630505471	1.69E-07
BX088715.1	ENSDARG00000086761	-1.630432784	0.002294867
prx	ENSDARG00000017246	-1.630268895	0.002722028
trpc6b	ENSDARG00000067730	-1.630125132	0.04104129
	ENSDARG00000016945	-1.629875805	0.003483958
KCNA3	ENSDARG00000079491	-1.629347162	0.001305223
CU855779.1	ENSDARG00000012388	-1.629119143	0.000986068
rhof	ENSDARG00000054389	-1.628308456	0.039981566
kcnk2b	ENSDARG00000007151	-1.628266527	0.007059521
RAPGEF2 (2 of 2)	ENSDARG00000061459	-1.627724942	8.27E-07
glb1	ENSDARG00000036415	-1.627440527	0.000156261
si:ch73-299h12.3	ENSDARG00000095749	-1.627410281	0.010439593
qkib	ENSDARG00000002026	-1.627214625	5.22E-07
iffo2a	ENSDARG00000062101	-1.626259308	0.027560838
slc35f2	ENSDARG00000069745	-1.625972099	0.00020662
errfil	ENSDARG00000070171	-1.625861748	2.96E-06
tmem189	ENSDARG00000042732	-1.625819561	1.38E-06
si:dkey-196n19.7	ENSDARG00000091648	-1.625667669	0.000449413
mertk	ENSDARG00000074695	-1.624814638	0.000127031
wu:fi13g07	ENSDARG00000091387	-1.624561279	0.00013757
WU:FC32F04	ENSDARG00000019045	-1.624419456	6.62E-05

coro7	ENSDARG00000089616	-1.624192872	0.015964788
ESAM (1 of 2)	ENSDARG00000076639	-1.623509374	0.000227093
zgc:174649	ENSDARG00000074922	-1.623426995	0.002068298
cacnb3b	ENSDARG00000076030	-1.623418422	0.030397995
slc35e1	ENSDARG00000011945	-1.623215405	2.46E-05
si:ch211-269i23.2	ENSDARG00000074575	-1.623202043	8.66E-06
pnp5b	ENSDARG00000019553	-1.623131706	0.000272735
zdhhc23a	ENSDARG00000029039	-1.623052184	0.031208841
CABZ01049802.1	ENSDARG00000088137	-1.622261066	0.019957734
AVPI1	ENSDARG00000096214	-1.621916482	5.48E-05
si:ch211-202a12.4	ENSDARG00000002369	-1.621829262	0.000569815
emx3	ENSDARG00000020417	-1.621782946	0.004622527
cmtm4	ENSDARG00000052020	-1.621222491	0.000564395
hivep3b	ENSDARG00000037154	-1.621179763	1.75E-05
xpo1a	ENSDARG00000078041	-1.621148628	6.68E-07
	ENSDARG00000033426	-1.621006712	0.020227156
cdk16	ENSDARG00000079470	-1.621002071	6.22E-05
rasd1	ENSDARG00000019274	-1.620399043	0.000289897
CTIF	ENSDARG00000090617	-1.620229819	0.000244462
rad54l2	ENSDARG00000063031	-1.620054125	1.34E-06
	ENSDARG00000079161	-1.620041574	4.23E-07
sass6	ENSDARG00000058346	-1.619467611	0.010481673
ZNF784	ENSDARG00000087439	-1.619384817	5.80E-06
gal3st1	ENSDARG00000062711	-1.618965476	0.00673085
scn8ab	ENSDARG00000018032	-1.618669509	2.34E-06
CU570691.1	ENSDARG00000059567	-1.618596698	0.001007597
atic	ENSDARG00000016706	-1.617585874	0.014222383
rftn1a	ENSDARG00000070831	-1.61753947	0.003532242
slc25a33	ENSDARG00000039931	-1.616514911	9.07E-06
cacng7a	ENSDARG00000063006	-1.615815044	0.003051147
sgsm3	ENSDARG00000019038	-1.615761626	4.98E-06
ippk	ENSDARG00000003446	-1.615688935	2.79E-05
PPP1R15B	ENSDARG00000068128	-1.615539378	0.000864408
PPP1R14C (2 of 2)	ENSDARG00000054817	-1.615054839	2.95E-05
si:ch211-284o19.8	ENSDARG00000053836	-1.615001631	0.005575067
stag1a	ENSDARG00000061205	-1.61482371	1.90E-05
MAZ (1 of 2)	ENSDARG00000063555	-1.614483068	0.006563498
CSMD3 (4 of 4)	ENSDARG00000014391	-1.614264977	0.007986436
GLTSCR1L	ENSDARG00000016089	-1.614137043	0.000181417
rorab	ENSDARG00000001910	-1.614025714	4.68E-07
serinc2l	ENSDARG00000053425	-1.613360382	0.003799051
	ENSDARG00000086076	-1.613200425	0.03396001
faah2b	ENSDARG00000054786	-1.61318656	0.01011184
zgc:101553	ENSDARG00000040427	-1.6131338	0.038757059
HECW2 (1 of 2)	ENSDARG00000063253	-1.61296807	2.25E-05
STAC	ENSDARG00000074004	-1.612223433	0.01974038
rims3	ENSDARG00000062305	-1.611933343	0.006524617

rgs20	ENSDARG00000038859	-1.611385088	1.73E-05
SB:CB827	ENSDARG00000087186	-1.611328657	0.002588096
valopa	ENSDARG00000021150	-1.611325179	0.036932866
greb1l	ENSDARG00000039196	-1.610966262	0.001557955
si:dkey-85k15.10	ENSDARG00000094446	-1.610941044	0.003845418
CDH16	ENSDARG00000077570	-1.61026762	0.014632169
kdr	ENSDARG00000017321	-1.60978216	0.000620446
SLC35G1	ENSDARG00000063268	-1.609770137	0.000733074
MAP4 (3 of 3)	ENSDARG00000090938	-1.60915947	9.47E-06
arhgap21a	ENSDARG00000075328	-1.609130746	1.85E-05
si:ch211-232i5.1	ENSDARG00000078072	-1.608974635	7.68E-05
si:dkey-77p23.3	ENSDARG00000091364	-1.608626071	0.025571005
KCNB1	ENSDARG00000060095	-1.608550485	0.035356191
p2rx5	ENSDARG00000004455	-1.608531472	0.002105708
ryr3	ENSDARG00000071331	-1.608508528	6.66E-07
ARHGEF40	ENSDARG00000078979	-1.608297713	0.0018104
arhgef9a	ENSDARG00000061746	-1.607385426	1.60E-05
sall1b	ENSDARG00000075891	-1.606969609	0.006208772
rhoj	ENSDARG00000020250	-1.606729216	0.001751427
unc13c	ENSDARG00000069731	-1.606680657	1.02E-05
CNNM2 (1 of 2)	ENSDARG00000078733	-1.606415495	0.001007256
tcirg1	ENSDARG00000095971	-1.606276511	0.010330928
cables2b	ENSDARG00000017154	-1.606236079	0.004046332
ppfia4	ENSDARG00000053205	-1.605811474	0.000111493
FAM13C	ENSDARG00000096601	-1.605311255	0.005097356
zgc:172086	ENSDARG00000057687	-1.6052817	0.007311313
ZNF362 (1 of 2)	ENSDARG00000062231	-1.60498936	0.001654268
fsd1l	ENSDARG00000059432	-1.604837374	5.10E-05
ephb2a	ENSDARG00000037373	-1.604630899	0.000189157
mapk8ip2	ENSDARG00000063157	-1.604595756	3.59E-06
LRRC61	ENSDARG00000077357	-1.604531251	0.01270185
ano5a	ENSDARG00000015731	-1.604425704	0.000167609
fasn	ENSDARG00000078895	-1.603096832	1.16E-05
PPP1R16B	ENSDARG00000079860	-1.602864987	0.016951744
FP236631.1	ENSDARG00000057107	-1.602835792	0.005608257
IRF2 (2 of 2)	ENSDARG00000040465	-1.602760378	0.000559257
CLTCL1 (1 of 2)	ENSDARG00000091618	-1.60248666	0.001475992
VAV2	ENSDARG00000044718	-1.602160312	2.24E-05
pparda	ENSDARG00000044525	-1.601402787	5.95E-05
LPHN2	ENSDARG00000087965	-1.601052366	0.001394327
CABZ01066498.1	ENSDARG00000078641	-1.601050366	0.003031701
rel	ENSDARG00000055276	-1.600769632	0.004626968
	ENSDARG00000091398	-1.599983939	0.002212622
mlxip	ENSDARG00000059474	-1.599942382	0.00024924
rnf217	ENSDARG00000060944	-1.599890156	0.020800393
ADAMTS3	ENSDARG00000060127	-1.599707236	0.000886221
CU638740.3	ENSDARG00000086704	-1.599630283	0.031370561

si:ch73-91k6.2	ENSDARG00000091598	-1.599245716	0.021393759
GPR123 (1 of 2)	ENSDARG00000087957	-1.598500834	0.029583525
rabl5	ENSDARG00000020822	-1.59817949	0.049953883
ZFP37 (16 of 39)	ENSDARG00000095173	-1.59817673	0.04246974
cpeb3	ENSDARG00000060103	-1.597999987	0.000831229
igsf21b	ENSDARG00000056084	-1.597687536	0.001166625
exoc3l2a	ENSDARG00000008414	-1.597585968	0.00185045
mll4b	ENSDARG00000060697	-1.59694909	4.30E-07
plxna1	ENSDARG00000061275	-1.596621661	7.66E-05
PTS	ENSDARG00000045269	-1.596273384	0.017663114
trim63	ENSDARG00000028027	-1.596229974	2.86E-05
spon1a	ENSDARG00000010029	-1.596127439	0.000353074
prdm5	ENSDARG00000006288	-1.59590647	0.001879837
dnm1a	ENSDARG00000010042	-1.595514961	1.03E-06
CLDN23	ENSDARG00000028096	-1.594896499	8.14E-06
si:ch73-290k24.5	ENSDARG00000076310	-1.594769847	0.013979254
sbf2	ENSDARG00000059460	-1.594425231	6.32E-06
HIP1R (1 of 2)	ENSDARG00000059484	-1.594337854	1.30E-05
pum2	ENSDARG00000061040	-1.594147855	2.24E-05
CR855996.2	ENSDARG00000086274	-1.594036217	8.25E-06
NFATC2 (1 of 2)	ENSDARG00000076640	-1.593923776	0.013445796
tmeff1a	ENSDARG00000008191	-1.593825685	0.013204056
tnk2a	ENSDARG00000090646	-1.593760535	0.000858504
si:dkey-177p2.6	ENSDARG00000042322	-1.593272131	0.000143492
prkar1ab	ENSDARG00000012094	-1.593077859	9.07E-06
TMEM17	ENSDARG00000074518	-1.592935079	0.044636204
dmd	ENSDARG00000008487	-1.592777922	2.81E-06
cacng6b	ENSDARG00000046079	-1.592641403	0.00495467
fam78a	ENSDARG00000088222	-1.592310819	0.016433588
USP21	ENSDARG00000094280	-1.592306035	0.008009587
CABZ01050249.1	ENSDARG00000052350	-1.592282004	0.00327246
ugp2a	ENSDARG00000005578	-1.592098053	0.039344726
HMGXB3	ENSDARG00000077823	-1.591799015	0.008472632
rhov	ENSDARG00000070434	-1.591787477	0.000461306
CABZ01112850.1	ENSDARG00000086946	-1.591444015	0.029875992
si:ch211-214j24.10	ENSDARG00000045847	-1.591257853	1.15E-06
si:ch73-266f23.1	ENSDARG00000074298	-1.59110144	1.09E-05
pdgfb	ENSDARG00000086778	-1.590859281	0.02622874
lrp8	ENSDARG00000070074	-1.590718325	1.59E-06
fam172a	ENSDARG00000052697	-1.590634932	6.40E-05
FRMD4B (1 of 2)	ENSDARG00000076496	-1.590596186	0.000385949
CABZ01084273.1	ENSDARG00000090064	-1.590365573	0.001718977
cldni	ENSDARG00000054616	-1.589931109	0.000103317
CABZ01084700.1	ENSDARG00000088071	-1.589737977	0.022418927
RNF14 (5 of 5)	ENSDARG00000078683	-1.589574953	0.012294328
CR848664.2	ENSDARG00000069603	-1.589503367	5.03E-05
cflar	ENSDARG00000055966	-1.589469902	0.004216134

large	ENSDARG00000005126	-1.589279221	0.00793029
SLC22A31	ENSDARG00000078882	-1.589123059	1.35E-05
peyt2	ENSDARG00000043003	-1.588929646	8.72E-06
CDC42EP4 (1 of 2)	ENSDARG00000045036	-1.588624687	0.000216335
sik2b	ENSDARG00000062315	-1.58830116	4.37E-06
rnf144aa	ENSDARG00000020600	-1.588025106	0.000219392
LUZP1	ENSDARG00000075556	-1.587961089	3.81E-05
map2k7	ENSDARG00000008279	-1.587614751	0.005008277
pim1	ENSDARG00000059120	-1.587182346	1.27E-06
ptpn23b	ENSDARG00000070870	-1.587110334	3.64E-05
MUC5AC	ENSDARG00000089847	-1.58678156	0.000280254
SEMA4F	ENSDARG00000079014	-1.586568134	0.004049507
zgc:100919	ENSDARG00000024540	-1.586408202	1.48E-06
thap7	ENSDARG00000070704	-1.586351785	0.000162668
RAI1	ENSDARG00000076679	-1.586267353	1.46E-05
fam101a	ENSDARG00000023484	-1.586091932	0.012675708
gabrg2	ENSDARG00000053665	-1.585859936	1.27E-05
baiap211a	ENSDARG00000029305	-1.58573283	0.029959399
CABZ01050664.1	ENSDARG00000086278	-1.585147441	0.015471492
fam131bb	ENSDARG00000070575	-1.585075593	0.000384598
SDK2 (2 of 2)	ENSDARG00000078116	-1.585016797	0.003483225
pir	ENSDARG00000056638	-1.584961419	0.018020809
FAM72B	ENSDARG00000070621	-1.584897257	0.000117486
CEP170B (2 of 2)	ENSDARG00000074636	-1.584405662	0.00013913
	ENSDARG00000059604	-1.583945573	2.23E-05
UNKL	ENSDARG00000037838	-1.583817828	0.000434227
klf2b	ENSDARG00000040432	-1.583810234	1.25E-05
slx4	ENSDARG00000093798	-1.583661232	0.00213325
osbp11a	ENSDARG00000011281	-1.583405521	0.000375756
CABZ01070045.1	ENSDARG00000044179	-1.583136661	5.61E-06
FOXO6 (2 of 2)	ENSDARG00000076660	-1.583133565	0.001009492
CSMD2	ENSDARG00000001559	-1.582665499	6.63E-06
KCNJ9	ENSDARG00000061636	-1.582640291	0.026887458
neto1l	ENSDARG00000071596	-1.582551317	0.00012481
ppfia2	ENSDARG00000013000	-1.58245462	2.34E-06
lrre8a	ENSDARG00000032188	-1.582377554	7.28E-05
cacna1aa	ENSDARG00000037905	-1.582252355	7.14E-07
CABZ01004375.1	ENSDARG00000087114	-1.581806798	0.014980457
socs2	ENSDARG00000045557	-1.581282435	0.003036552
dpy19l1l	ENSDARG00000077869	-1.581042577	0.023002408
gliplr1b	ENSDARG00000030078	-1.580975485	0.000372085
insrb	ENSDARG00000071524	-1.580803241	3.47E-06
camta2	ENSDARG00000092799	-1.580238944	0.004363798
si:ch211-79g12.2	ENSDARG00000092819	-1.580140272	0.005651741
tnfrsfa	ENSDARG00000004451	-1.579807085	0.00011101
CABZ01076234.1	ENSDARG00000067794	-1.579660176	0.033564544
nab1a	ENSDARG00000042940	-1.579536463	0.047096949

st6galnac6	ENSDARG00000036913	-1.579530431	0.027445343
CU915778.1	ENSDARG00000086717	-1.579461879	0.013181532
arntl1b	ENSDARG00000035732	-1.579240458	6.19E-05
MESDC1	ENSDARG00000079017	-1.579154196	0.005119604
uevld	ENSDARG00000009266	-1.578536351	0.00154261
zc3h12b	ENSDARG00000062463	-1.578025524	0.013765664
si:dkey-4i23.7	ENSDARG00000094295	-1.578004158	0.028010936
hectd2	ENSDARG00000061194	-1.577949894	0.003007903
si:dkey-51d8.9	ENSDARG00000096217	-1.577647699	0.034685263
CABZ01071964.1	ENSDARG00000075321	-1.577525055	0.009645182
dennd4a	ENSDARG00000062721	-1.577375435	4.77E-06
ubap1	ENSDARG00000058746	-1.57724829	1.45E-05
far1	ENSDARG00000006899	-1.576999431	5.31E-05
letm1	ENSDARG00000056978	-1.576699131	0.000156647
CU467828.1	ENSDARG00000074082	-1.576633539	0.001202525
ACSL6	ENSDARG00000078399	-1.576632843	0.000728533
plk2b	ENSDARG00000019130	-1.575773764	3.35E-05
slco4a1	ENSDARG00000075948	-1.575270393	0.008064084
grip2b	ENSDARG00000027618	-1.575203707	0.005335433
mfsd4b	ENSDARG00000008263	-1.575040077	0.012079174
slx4	ENSDARG00000061414	-1.574730491	0.000151082
alpk3a	ENSDARG00000078989	-1.574477066	0.000269389
plekhj1	ENSDARG00000025593	-1.573610891	0.000276778
gas2l1	ENSDARG00000078803	-1.573458399	0.000606943
tsc22d3	ENSDARG00000075666	-1.57334549	2.40E-06
wsb2	ENSDARG00000058608	-1.573273399	0.004263229
si:ch73-380n15.2	ENSDARG00000087224	-1.57299612	0.020782563
dnajb6b	ENSDARG00000020953	-1.572906541	2.96E-05
ankrd29	ENSDARG00000057159	-1.572435739	0.002582601
CU075695.3	ENSDARG00000077237	-1.572224606	1.28E-05
BDP1 (2 of 2)	ENSDARG00000053091	-1.57178289	4.39E-06
kenn1b	ENSDARG00000023546	-1.571757573	0.000176195
SORCS2	ENSDARG00000077465	-1.571676996	1.34E-05
ttc22	ENSDARG00000077836	-1.571636435	0.023899727
vps4a	ENSDARG00000030114	-1.571532676	0.003957767
slc4a10b	ENSDARG00000060303	-1.571129329	7.27E-05
gprc5bb	ENSDARG00000075141	-1.571040625	0.000902459
rtn4rl1b	ENSDARG00000055578	-1.570787337	0.018984557
grip1	ENSDARG00000015053	-1.570581391	5.59E-06
LMLN	ENSDARG00000061265	-1.570467227	0.004306593
LEPREL1	ENSDARG00000071448	-1.569974836	9.34E-05
si:ch211-74m13.1	ENSDARG00000094952	-1.569673786	0.009413459
pde3a	ENSDARG00000004227	-1.569516611	3.29E-05
cuedc1a	ENSDARG00000068716	-1.569444692	4.31E-05
HCN1	ENSDARG00000077190	-1.56931252	0.002515142
AP1M2 (2 of 2)	ENSDARG00000026759	-1.569241172	3.31E-06
trim3a	ENSDARG00000063711	-1.569203157	0.000664013

lmna	ENSDARG00000013415	-1.568898183	1.89E-05
esyt2a	ENSDARG00000030824	-1.568826279	1.32E-05
NRG3	ENSDARG00000090650	-1.56872422	0.000468245
CU570791.5	ENSDARG00000089638	-1.568647137	2.69E-05
cux1a	ENSDARG00000078459	-1.568611148	3.78E-06
BX510935.2	ENSDARG00000079877	-1.5683889	0.026919213
xirp1	ENSDARG00000030722	-1.567978677	0.014289158
dtna	ENSDARG00000031015	-1.56774847	0.000315805
abcg4a	ENSDARG00000061047	-1.567656937	0.001615661
dolpp1	ENSDARG00000036915	-1.567520418	0.00039974
riok3	ENSDARG00000042751	-1.567371941	5.18E-06
NRBP2 (2 of 2)	ENSDARG00000009626	-1.567247991	0.002388309
nedd9	ENSDARG00000058891	-1.567044112	0.000297823
pappab	ENSDARG00000059858	-1.566290206	0.0127802
rab11fip1b	ENSDARG00000036462	-1.566066811	0.00029349
si:ch211-245n8.1	ENSDARG00000093106	-1.565994011	0.022085609
satb1a	ENSDARG00000057649	-1.565947071	0.000605878
rnf19b	ENSDARG00000060926	-1.565870511	7.63E-06
gbp1	ENSDARG00000038668	-1.565639393	0.022389841
golim4b	ENSDARG00000014545	-1.565489067	0.021536044
myo5b	ENSDARG00000093553	-1.565194796	0.010039498
lgi2a	ENSDARG00000089957	-1.565082875	0.003269252
nicn1	ENSDARG00000069677	-1.564777431	0.013309592
mgat4b	ENSDARG00000004115	-1.564736743	2.89E-05
wu:fc17b08	ENSDARG00000094249	-1.564238979	0.002411042
fhdc1	ENSDARG00000074812	-1.564128948	0.001737405
marveld3	ENSDARG00000026011	-1.564020059	0.000164978
gnal	ENSDARG00000045415	-1.563919708	0.000368695
lima1	ENSDARG00000074020	-1.563850897	0.014536084
npffr112	ENSDARG00000062631	-1.563340657	0.037503108
b3galt4	ENSDARG00000076218	-1.562839283	0.030387674
rasa4	ENSDARG00000029372	-1.562670801	0.000303249
si:ch211-183d21.1	ENSDARG00000092499	-1.561501481	2.60E-05
pigt	ENSDARG00000075842	-1.561382039	0.01000351
mycbpap	ENSDARG00000069194	-1.561078745	0.013815516
CR925880.1	ENSDARG00000079994	-1.560383916	5.33E-05
gria3b	ENSDARG00000037498	-1.559949941	6.24E-06
FNBP1 (1 of 3)	ENSDARG00000038219	-1.559880324	5.12E-06
FP236810.2	ENSDARG00000090654	-1.559337919	0.002127013
QPCT	ENSDARG00000089717	-1.55885144	0.001146558
ccdc125	ENSDARG00000056477	-1.558746796	0.00027447
map3k12	ENSDARG00000042565	-1.55849477	9.50E-05
TMEM55B (2 of 2)	ENSDARG00000026387	-1.558475403	0.010173423
TSG101 (2 of 3)	ENSDARG00000011897	-1.557899916	0.000100731
smad3a	ENSDARG00000036096	-1.557689688	0.000188873
gas7	ENSDARG00000074443	-1.556994675	0.0001109
LRIF1 (1 of 2)	ENSDARG00000069696	-1.555735857	0.006183148

si:dkey-239i20.4	ENSDARG00000043514	-1.555726771	0.017830382
CABZ01071494.1	ENSDARG00000077007	-1.555552255	0.038841059
tmem41b	ENSDARG00000080006	-1.555386701	0.000686594
magi2	ENSDARG00000021590	-1.55535966	0.000167468
dip2c	ENSDARG00000062154	-1.555262667	1.62E-05
limch1a	ENSDARG00000074275	-1.554972887	1.02E-05
IKZF4	ENSDARG00000037068	-1.554538277	0.005135806
pde4d	ENSDARG00000032761	-1.554482234	0.000955751
ANKS1A (2 of 2)	ENSDARG00000078901	-1.5544077	0.005117437
CACNG4 (1 of 2)	ENSDARG00000074669	-1.553880259	0.04307193
rap2ab	ENSDARG00000040246	-1.553790616	0.028041922
snx13	ENSDARG00000013828	-1.553557853	0.000963974
pik3cb	ENSDARG00000075253	-1.553521908	7.73E-05
socs8	ENSDARG00000016773	-1.553493136	0.00283421
cyth1a	ENSDARG00000076742	-1.553240736	6.08E-06
	ENSDARG00000090795	-1.553146741	5.91E-05
si:dkeyp-73d8.12	ENSDARG00000086504	-1.553081728	0.008054744
SYT2 (1 of 2)	ENSDARG00000014169	-1.552903565	0.002498332
b4galt2	ENSDARG00000077994	-1.552819121	0.00309623
ctul1	ENSDARG00000020986	-1.552744686	0.006762069
BX321921.1	ENSDARG00000040095	-1.552261535	0.000361214
dgkh	ENSDARG00000018716	-1.552207022	8.17E-06
rap2b	ENSDARG00000040296	-1.55203196	0.000552511
ABR (1 of 2)	ENSDARG00000059587	-1.551720939	0.000760975
rnf165a	ENSDARG00000077906	-1.551708847	4.68E-05
arhgap20	ENSDARG00000089326	-1.551681466	0.00558413
kiaa09471	ENSDARG00000058461	-1.551410299	0.001610365
CABZ01114406.1	ENSDARG00000091634	-1.551121679	0.038282282
si:dkeyp-69b9.2	ENSDARG00000094614	-1.549314379	0.027290306
si:dkey-14p11.4	ENSDARG00000094787	-1.548911896	0.020220022
vash2	ENSDARG00000007774	-1.54881695	0.002645698
txlng	ENSDARG00000001969	-1.548811021	0.001363811
ndrg1b	ENSDARG00000010420	-1.548586274	0.011744695
si:dkey-27m7.4	ENSDARG00000003146	-1.54797721	0.007811926
pdzrn3a	ENSDARG00000073757	-1.547801714	0.005020445
ABHD17A (1 of 2)	ENSDARG00000043084	-1.547769191	5.19E-05
epas1b	ENSDARG00000057671	-1.547551923	0.000232908
cited4a	ENSDARG00000035990	-1.547493176	7.12E-06
smad1	ENSDARG00000027199	-1.547425989	2.04E-05
phlda3	ENSDARG00000037804	-1.547415565	0.001044652
ZNF512B	ENSDARG00000071055	-1.54705507	0.008191106
zgc:153129	ENSDARG00000045980	-1.546995784	0.000804598
si:dkey-103i16.6	ENSDARG00000062893	-1.54674633	0.003737818
cyp26c1	ENSDARG00000056029	-1.546732281	0.002186296
MAGI3 (2 of 2)	ENSDARG00000025974	-1.546605178	0.000447618
pou2f2b	ENSDARG00000019658	-1.546568124	0.001051984
gadd45aa	ENSDARG00000043581	-1.546564404	0.000720901

fam214b	ENSDARG00000068650	-1.54655054	2.66E-05
CYTH3 (2 of 3)	ENSDARG00000005159	-1.5464038	0.000535949
pidb	ENSDARG00000074626	-1.545987627	0.003175238
ctssb.1	ENSDARG00000074656	-1.54513738	0.008172366
si:ch73-15n24.1	ENSDARG00000079901	-1.544862541	0.008058115
ntm	ENSDARG00000018065	-1.544829081	0.000271338
GMIP	ENSDARG00000077249	-1.544638765	0.003332382
KCTD17	ENSDARG00000056050	-1.544481373	0.002303873
rassf8b	ENSDARG00000045485	-1.544161084	5.20E-05
slc16a12b	ENSDARG00000089885	-1.54395611	2.56E-05
smad3b	ENSDARG00000010207	-1.543937287	0.000681901
cnksr2a	ENSDARG00000074480	-1.543936118	0.001623634
si:dkeyp-73g8.7	ENSDARG00000092995	-1.543863244	0.006998057
ntsr1	ENSDARG00000077577	-1.54375378	0.017733903
SPTBN1 (2 of 2)	ENSDARG00000036402	-1.543598758	3.09E-06
b3gnt7	ENSDARG00000038489	-1.543363583	0.000311754
NINL	ENSDARG00000075119	-1.542943434	0.034765324
si:ch211-209j10.5	ENSDARG00000057403	-1.542828018	0.000726431
	ENSDARG00000089050	-1.541922709	0.002681058
vipr1a	ENSDARG00000028878	-1.541624371	0.006770035
slc1a5	ENSDARG00000090706	-1.541348481	0.000158387
TENM3	ENSDARG00000087599	-1.541251995	0.000223286
rorca	ENSDARG00000057231	-1.541146975	5.33E-05
perp	ENSDARG00000063572	-1.540976238	5.58E-06
FP236598.1	ENSDARG00000089527	-1.54088083	0.002389393
FRMD5 (1 of 2)	ENSDARG00000075942	-1.540653375	0.000839328
ncaldb	ENSDARG00000011334	-1.540445719	0.011645906
si:ch211-89o5.1	ENSDARG00000092997	-1.5402188	0.026627958
si:dkeyp-80d11.14	ENSDARG00000094121	-1.539990493	0.006356521
BX005006.2	ENSDARG00000091128	-1.539962344	0.004902694
ppp1r3ab	ENSDARG00000088813	-1.539909469	0.008482994
unc5a	ENSDARG00000074543	-1.539625978	0.002703886
mfsd6b	ENSDARG00000054583	-1.539393426	0.001062653
lactbl1a	ENSDARG00000089063	-1.539329462	0.04046035
mff	ENSDARG00000053753	-1.539236087	2.46E-05
zufsp	ENSDARG00000059983	-1.539214768	0.008313362
ttl11	ENSDARG00000060374	-1.539207463	0.006706846
xiap	ENSDARG00000016143	-1.539201059	4.78E-05
pitpnaa	ENSDARG00000039490	-1.539082206	5.69E-05
si:dkey-1d7.3	ENSDARG00000075837	-1.539067558	0.019197111
zgc:65851	ENSDARG00000012281	-1.538831225	5.22E-05
gpr12	ENSDARG00000062934	-1.538801789	0.005214075
si:ch73-261i21.5	ENSDARG00000076438	-1.538360864	0.031645891
zgc:64085	ENSDARG00000025757	-1.538131776	0.00020121
atxn7l2b	ENSDARG00000056268	-1.537618093	0.000281602
CLMP	ENSDARG00000003145	-1.537399861	0.023671534
zgc:162183	ENSDARG00000074663	-1.53734107	0.009963494

igf2bp2a	ENSDARG0000003421	-1.537309559	0.014070806
SSBP2 (1 of 2)	ENSDARG00000057395	-1.537025216	0.048437045
si:ch1073-284b18.3	ENSDARG00000096170	-1.536861077	0.022124795
arhgap29b	ENSDARG00000017748	-1.536653711	4.07E-05
srrm4	ENSDARG00000086327	-1.536616012	0.007156289
speg	ENSDARG00000039256	-1.536431809	0.000121093
mnx2b	ENSDARG00000030350	-1.535104867	0.031785338
erbb4b	ENSDARG00000061142	-1.535075181	0.006216211
numbl	ENSDARG00000024043	-1.535027823	0.001693079
smc1a	ENSDARG00000055754	-1.534763797	0.019393553
myo9a1	ENSDARG00000076729	-1.53468862	1.39E-05
CABZ01062780.1	ENSDARG00000037190	-1.534530446	0.027008125
nfybb	ENSDARG00000045611	-1.534383261	0.000346069
scap	ENSDARG00000018096	-1.533999924	0.000429987
micall1	ENSDARG00000079811	-1.533869458	0.031480545
PALM2	ENSDARG00000069608	-1.533813807	0.000114746
rgl1	ENSDARG00000005989	-1.533557159	2.01E-05
scn1ba	ENSDARG00000060222	-1.533504347	9.03E-05
	ENSDARG00000089697	-1.533487464	0.00052339
ZDHHC20 (1 of 2)	ENSDARG00000055066	-1.533465146	0.014328147
fam199x	ENSDARG00000009982	-1.533455924	0.000639147
CT955984.1	ENSDARG00000026329	-1.532512038	0.000100179
ppp6r2b	ENSDARG00000069654	-1.532471952	2.94E-05
mmp16b	ENSDARG00000058876	-1.532375221	0.003747698
C23H1orf116 (1 of 2)	ENSDARG00000074827	-1.532002551	0.004530822
colm	ENSDARG00000061576	-1.531968636	0.0499807
numb	ENSDARG00000027279	-1.531496445	0.000193526
nbeal2	ENSDARG00000057508	-1.531490274	0.001591455
si:zfos-2269b6.1	ENSDARG00000088041	-1.530902444	0.000167635
map9	ENSDARG00000037276	-1.530827603	0.029948509
PQLC2	ENSDARG00000043624	-1.530647163	0.00090341
wt1b	ENSDARG00000007990	-1.530395066	0.017998224
hipk3b	ENSDARG00000062082	-1.530196467	1.07E-05
prune	ENSDARG00000076246	-1.530139884	0.010913729
pcsk1	ENSDARG00000002600	-1.529755264	0.00102904
si:dkey-34e4.1	ENSDARG00000022085	-1.529651375	0.039887822
hspg2	ENSDARG00000076564	-1.529552218	5.62E-06
TOM1L2 (1 of 2)	ENSDARG00000056394	-1.529212608	0.004786307
fance	ENSDARG00000055232	-1.529127308	0.02753024
	ENSDARG00000052903	-1.528748783	0.021462747
zgc:158564	ENSDARG00000052244	-1.528675102	7.70E-06
sema3ab	ENSDARG00000042210	-1.528487671	0.00047077
rprip1l	ENSDARG00000051754	-1.528325387	0.00424133
slc38a5a	ENSDARG00000009901	-1.527823268	0.000810748
FAM163A (1 of 2)	ENSDARG00000077470	-1.527662983	0.026748484
KANSL1 (1 of 2)	ENSDARG00000088238	-1.527635007	0.00039239

SCYL2	ENSDARG00000032627	-1.527233081	0.000404209
plbd1	ENSDARG00000063313	-1.526743074	0.005217452
ahi1	ENSDARG00000044056	-1.526478933	0.000498735
dyrk4	ENSDARG00000070734	-1.526432787	0.016195985
phyhiplb	ENSDARG00000070498	-1.526178475	0.000492767
AADAT	ENSDARG00000011410	-1.52604205	0.016421242
march2	ENSDARG00000061738	-1.525735441	0.003785287
kcnc3b	ENSDARG00000037933	-1.525399439	0.00609026
etnk2	ENSDARG00000070213	-1.525285009	0.015954189
CCDC57	ENSDARG00000089863	-1.524775448	0.015703274
si:ch211-14c7.2	ENSDARG00000094522	-1.524664186	0.009630189
RNF122	ENSDARG00000063483	-1.524531477	0.000778372
CR376848.1	ENSDARG00000057230	-1.524207991	0.030753424
march5	ENSDARG00000032552	-1.524185441	0.002432771
clstn2	ENSDARG00000060637	-1.524007316	0.00013522
BX511086.1	ENSDARG00000073681	-1.523983574	2.67E-06
fam102aa	ENSDARG00000025846	-1.523735014	0.001161029
epha6	ENSDARG00000022971	-1.523286041	0.000309516
mst1	ENSDARG00000031855	-1.523183287	0.006107085
si:ch211-197e7.1	ENSDARG00000095200	-1.521839449	0.014503679
gpr155a	ENSDARG00000090804	-1.521709992	0.000977609
tfcp2l1	ENSDARG00000029497	-1.521482424	0.001841028
KLHDC8A	ENSDARG00000061000	-1.520828031	0.014486139
si:ch73-138n13.1	ENSDARG00000075349	-1.520778389	2.35E-05
taok2b	ENSDARG00000079261	-1.520618725	0.000369863
si:ch211-209p16.3	ENSDARG00000088861	-1.520615388	0.018063669
erbb3b	ENSDARG00000036993	-1.520033077	0.000396782
aim1a	ENSDARG00000031782	-1.519953547	2.62E-05
riok1	ENSDARG00000016399	-1.519913634	0.000559282
ZBTB22 (2 of 2)	ENSDARG00000020176	-1.519763061	0.004539419
	ENSDARG00000037904	-1.519376872	0.002667169
sorbs2a	ENSDARG00000003046	-1.519285155	0.00060749
ACVR2B (2 of 2)	ENSDARG00000041516	-1.519247245	0.000993845
trim46b	ENSDARG00000058649	-1.519173635	0.000147017
TTBK2 (1 of 2)	ENSDARG00000005670	-1.519012801	0.001847202
RP1L1	ENSDARG00000089458	-1.518967038	0.013512987
dnah7l	ENSDARG00000000606	-1.518668939	0.004856185
irs1	ENSDARG00000054087	-1.518560264	0.000714604
foxn3	ENSDARG00000012833	-1.518054984	0.000654849
SNTG1	ENSDARG00000061832	-1.518021522	0.034843198
snx18a	ENSDARG00000067713	-1.517467672	8.32E-05
kenq5a	ENSDARG00000069954	-1.51738001	0.000175541
col27a1a	ENSDARG00000034373	-1.516872847	0.00261381
RPS6KA2	ENSDARG00000028469	-1.516694496	0.010787195
CABZ01073380.1	ENSDARG00000089389	-1.516529839	0.000490965
kenj1a.1	ENSDARG00000091232	-1.516243862	0.001966549
WDR93	ENSDARG00000087191	-1.515978829	0.035458976

snx33	ENSDARG00000014954	-1.515427395	0.002470179
adcy9	ENSDARG00000069419	-1.515353752	0.000377377
mark2b	ENSDARG00000032458	-1.514971692	1.44E-05
CPEB2	ENSDARG00000052604	-1.514637774	0.002923086
bai3	ENSDARG00000059832	-1.514490936	4.22E-05
snrkb	ENSDARG00000017665	-1.514392349	7.55E-05
DNER	ENSDARG00000061031	-1.514259393	0.000992155
CRHR2	ENSDARG00000062377	-1.514124376	0.020207475
gadd45g	ENSDARG00000019417	-1.513918753	0.003070986
ABLIM3 (3 of 3)	ENSDARG00000087298	-1.513517833	0.00399957
PLEKHO2	ENSDARG00000016774	-1.513441377	0.021500677
fam92a1	ENSDARG00000004436	-1.513403481	0.015486922
bicd1a	ENSDARG00000079496	-1.513006515	0.00226869
si:dkey-221j11.3	ENSDARG00000093304	-1.512803177	0.023975285
ntrk3b	ENSDARG00000086214	-1.512699088	0.025043591
ptpn1	ENSDARG00000007923	-1.512403683	2.73E-05
jakmip2	ENSDARG00000053547	-1.51236878	0.000182352
efna1a	ENSDARG00000030326	-1.512191433	0.00010937
med15	ENSDARG00000014292	-1.512095613	6.96E-05
ammecr1	ENSDARG00000012892	-1.511981721	0.000124771
RFWD3	ENSDARG00000087752	-1.511795863	0.001710297
slc45a4	ENSDARG00000077326	-1.511606079	0.000102881
golgb1	ENSDARG00000061951	-1.511506535	3.64E-05
cnm2a	ENSDARG00000061195	-1.511056258	0.01213163
wdr69	ENSDARG00000021462	-1.511003032	0.041135835
enpp5	ENSDARG00000070625	-1.51090781	0.000140424
nrip1b	ENSDARG00000068894	-1.510725394	6.11E-05
robo2	ENSDARG00000078366	-1.510407963	0.001252697
SRFBP1	ENSDARG00000075323	-1.510323981	0.000849962
si:dkeyp-68b7.5	ENSDARG00000079930	-1.510323763	0.003454884
EHD4	ENSDARG00000054302	-1.510226174	0.001478835
ablim3	ENSDARG00000088168	-1.509756648	0.000947638
BX548021.2	ENSDARG00000086060	-1.509336127	0.012455784
tmub2	ENSDARG00000056467	-1.508966917	0.001427288
ces3	ENSDARG00000041595	-1.508826227	0.002357077
CR847934.1	ENSDARG00000016551	-1.508718248	1.74E-05
nlgn3a	ENSDARG00000062581	-1.508182337	0.006583068
abcc6a	ENSDARG00000016750	-1.507963181	0.033220741
dmbx1a	ENSDARG00000009922	-1.507928743	0.000646734
fstl4	ENSDARG00000044319	-1.507708049	0.003913707
ZFP37 (2 of 39)	ENSDARG00000073708	-1.507530287	0.019139996
BX004980.1	ENSDARG00000016541	-1.507451978	0.017632683
prom1a	ENSDARG00000039966	-1.507025906	0.001724903
cdc42ep1b	ENSDARG00000062390	-1.506935938	0.000961335
cldn11a	ENSDARG00000020031	-1.506663228	5.97E-05
DLEU7	ENSDARG00000094160	-1.506646534	0.025314662
sox7	ENSDARG00000030125	-1.506510695	0.000837768

nsmaf	ENSDARG00000051920	-1.506419271	0.000716766
mylipb	ENSDARG00000055118	-1.506207764	0.023237537
NUAK1 (2 of 2)	ENSDARG00000020086	-1.506155671	0.001824756
als2a	ENSDARG00000075111	-1.506034384	0.018262402
ppp1r3cb	ENSDARG00000014554	-1.505761894	7.05E-05
HMHA1 (2 of 2)	ENSDARG00000052496	-1.505641364	0.047357439
NEDD4 (1 of 2)	ENSDARG00000039778	-1.505572947	4.29E-05
rasgef1ba	ENSDARG00000033614	-1.505399838	6.93E-05
sorbs1	ENSDARG00000079230	-1.505287544	9.80E-05
ZNF423	ENSDARG00000059707	-1.505196935	2.23E-05
BX571760.1	ENSDARG00000086999	-1.504764497	0.006055747
mtss1l	ENSDARG00000028943	-1.504209168	4.20E-05
stambp1l	ENSDARG00000003085	-1.504161095	0.005167268
lepr	ENSDARG00000070961	-1.503948282	0.000124146
lin37	ENSDARG00000053950	-1.503930573	0.004306175
cmya5	ENSDARG00000061379	-1.503906241	0.008634403
n4bp2	ENSDARG00000061451	-1.503738127	0.00086709
b3gnt2b	ENSDARG00000091902	-1.503721917	0.000104992
jupa	ENSDARG00000070787	-1.503544649	1.32E-05
glg1b	ENSDARG00000013780	-1.502744004	0.001840476
SYT7 (2 of 2)	ENSDARG00000063568	-1.502511776	0.003140502
hbegfb	ENSDARG00000031246	-1.502486936	0.014573997
cgna	ENSDARG00000055607	-1.502137609	0.00039062
zgc:158328	ENSDARG00000005216	-1.502105428	0.013028118
znf710a	ENSDARG00000014680	-1.502050207	0.000496019
si:ch211-251p5.5	ENSDARG00000054814	-1.501877177	2.88E-05
CPNE7	ENSDARG00000037084	-1.501844858	0.007108914
rasgef1bb	ENSDARG00000044251	-1.501689183	0.000308464
	ENSDARG00000056244	-1.500815164	0.009572554
KLHL29 (2 of 2)	ENSDARG00000043799	-1.500467207	0.002936842