

Supplementary Table 5. Up regulated genes in 4 dpf zebrafish embryos at 4hpi with 100 nM recombinant human insulin

Gene	Gene Id	Fold Change	p-value
MFAP4 (1 of 14)	ENSDARG00000094845	23.12819929	0.003280442
si:dkey-14a7.2	ENSDARG00000041550	16.62543464	0.011356379
CABZ01085697.1	ENSDARG00000074250	13.67592229	0.02542494
si:dkeyp-4f2.6	ENSDARG00000095596	13.18698437	0.026326078
si:ch211-82g18.3	ENSDARG00000094436	12.24942377	0.000748612
IRGM (7 of 8)	ENSDARG00000067617	12.09346567	0.001053629
serpinh1b	ENSDARG00000019949	9.680201889	2.84E-08
si:dkeyp-91h9.1	ENSDARG00000095509	8.804645276	7.66E-07
lrata	ENSDARG00000037278	8.584081237	0.000689943
CR318603.2	ENSDARG00000027907	8.205466963	3.45E-06
BX572619.3	ENSDARG00000087161	8.203203388	0.019937307
SNORA16	ENSDARG00000081931	7.711712036	0.030272701
ponzr4	ENSDARG00000087440	7.081356619	0.000116676
BX284672.2	ENSDARG00000086419	6.978300947	0.000234168
dre-mir-145	ENSDARG00000083025	6.93866746	0.029121227
lrrc18a	ENSDARG00000078790	6.420900358	0.006829222
BX323854.2	ENSDARG00000030778	6.35391641	1.68E-05
ITPRIP (2 of 2)	ENSDARG00000036479	6.110866704	0.006678151
si:dkey-91f15.1	ENSDARG00000094990	5.970903096	3.98E-05
	ENSDARG00000094733	5.970410163	0.032511018
si:dkey-95h12.2	ENSDARG00000092923	5.804138705	7.56E-24
IRGM (5 of 8)	ENSDARG00000090707	5.756055775	2.93E-05
si:dkey-14d8.6	ENSDARG00000045835	5.67853643	1.96E-13
si:dkey-189n19.3	ENSDARG00000094331	5.650356568	5.06E-06
BX927317.2	ENSDARG00000073835	5.199873084	0.026867695
si:dkey-7m11.1	ENSDARG00000094957	4.913470471	0.007527072
si:dkey-27n6.10	ENSDARG00000074268	4.880573515	2.89E-13
zgc:110353	ENSDARG00000039443	4.873997013	0.01224396
NEU3 (4 of 5)	ENSDARG00000096381	4.763814896	0.001709395
si:ch211-167j6.5	ENSDARG00000058409	4.613669583	0.037981907
MSC	ENSDARG00000045353	4.543145956	0.002282399
ugt5d1	ENSDARG00000002394	4.520320059	1.52E-20
zgc:101765	ENSDARG00000054934	4.421585131	6.07E-06
cyp2x6	ENSDARG00000079653	4.32397927	0.012268192
si:dkey-95h12.1	ENSDARG00000040100	4.284213504	1.53E-15
5S_rRNA	ENSDARG00000083857	4.245244974	0.015462135
si:dkey-260c8.5	ENSDARG00000096298	4.21485867	0.011386796
si:dkey-91f15.8	ENSDARG00000034207	4.169253952	2.21E-06
BX119916.1	ENSDARG00000075698	4.03889893	7.00E-05
CR847954.1	ENSDARG00000054026	4.018878743	0.034323047
si:ch211-113e8.6	ENSDARG00000074610	3.953340037	0.023205027
zgc:194679	ENSDARG00000073723	3.921299715	2.90E-09
gck	ENSDARG00000068006	3.880257485	3.83E-10
si:dkey-119g10.4	ENSDARG00000095801	3.833528676	0.003691177

SNORD47	ENSDARG00000086382	3.833029702	0.003911294
egl3	ENSDARG00000032553	3.732218385	0.002535095
or109-11	ENSDARG00000087002	3.706183102	0.008846297
si:ch211-224b1.5	ENSDARG00000092428	3.694453141	0.028812212
gstt1b	ENSDARG00000017388	3.657871881	8.98E-08
clk4a	ENSDARG00000089372	3.65352204	3.07E-41
ctsl1	ENSDARG00000011701	3.577855722	0.014397488
ponzr3	ENSDARG00000088589	3.482371429	1.20E-06
nkx2.9	ENSDARG00000020332	3.481173451	0.002534635
5S_rRNA	ENSDARG00000080384	3.455064277	0.025675778
med18	ENSDARG00000041237	3.449372304	9.39E-09
VSTM5	ENSDARG00000079795	3.414209686	5.04E-10
wu:fd58b11	ENSDARG00000054921	3.413895324	0.004705262
ela2	ENSDARG00000056744	3.393047046	1.92E-05
tmem37	ENSDARG00000059305	3.363608723	0.000384135
xkr8.2	ENSDARG00000076820	3.351070962	0.000596182
CR450711.2	ENSDARG00000090899	3.340958038	2.08E-09
rbm4.1	ENSDARG00000036386	3.329721837	7.58E-22
tex30	ENSDARG00000030636	3.304240861	0.017920536
cyp27a1.2	ENSDARG00000069186	3.284252227	0.005194745
si:ch73-7i4.2	ENSDARG00000093998	3.262547779	3.53E-10
enpp7	ENSDARG00000077225	3.237102101	0.004307112
zgc:109913	ENSDARG00000022512	3.22639015	0.028360104
mvd	ENSDARG00000092648	3.226062417	0.043461087
MYCT1 (2 of 2)	ENSDARG00000088546	3.222862595	0.029532847
c6ast4	ENSDARG00000052578	3.222082411	0.001367543
si:dkey-269o24.1	ENSDARG00000090477	3.204885295	8.28E-05
si:ch211-106j21.7	ENSDARG00000094435	3.203639281	0.002801253
rbm4.2	ENSDARG00000055080	3.201098859	1.22E-29
cxcr3.1	ENSDARG00000007358	3.194535489	0.044384553
snai3	ENSDARG00000031243	3.184128696	0.029111515
ccr12.3	ENSDARG00000038541	3.153294601	0.020907088
AHSG	ENSDARG00000069293	3.152538227	0.041000313
hsp90aa1.2	ENSDARG00000024746	3.150342667	0.000400301
mc1r	ENSDARG00000020237	3.149556026	0.000489104
rbm5	ENSDARG00000078781	3.142821458	2.99E-20
si:dkeyp-2e4.5	ENSDARG00000095497	3.121973855	0.00041931
CABZ01059415.2	ENSDARG00000087345	3.118851134	0.002442947
zgc:174310	ENSDARG00000076442	3.109661051	4.79E-06
c6ast3	ENSDARG00000024503	3.095039713	0.007964957
cd74b	ENSDARG00000036628	3.09432726	0.0253571
fbx15	ENSDARG00000005284	3.087390055	1.10E-08
im:7160159	ENSDARG00000091625	3.086359859	0.000285194
sult3st2	ENSDARG00000093619	3.076133372	1.29E-09
trmt2b	ENSDARG00000033967	3.07563617	0.010007299
si:dkey-222e15.4	ENSDARG00000095280	3.071181802	0.004665409
si:dkey-184p9.7	ENSDARG00000092726	3.051103098	7.37E-06

ch25hl1.1	ENSDARG00000039381	3.050492244	1.00E-19
NAALADL1	ENSDARG00000020952	3.033361275	4.98E-13
zgc:101549	ENSDARG00000036009	3.032353994	1.24E-08
SLC26A3 (2 of 2)	ENSDARG00000003615	3.031217068	0.004228627
opn1mw3	ENSDARG00000044279	3.014912158	0.042866388
si:dkey-193c22.1	ENSDARG00000093687	3.003658134	2.74E-09
	ENSDARG00000062221	2.996807077	3.94E-11
nupr1	ENSDARG00000094557	2.996300778	3.51E-28
C9H2orf76	ENSDARG00000037199	2.992732502	0.015089818
olfm2b	ENSDARG00000007015	2.973782426	5.13E-06
si:ch211-205a14.12	ENSDARG00000095875	2.973772128	0.02000505
ptpn6	ENSDARG00000013916	2.954255677	4.04E-07
meox2b	ENSDARG00000061818	2.952347127	0.000125956
neu3.3	ENSDARG00000058327	2.950311706	2.08E-09
ahr1a	ENSDARG00000020046	2.945237514	0.02645793
B3GNT1	ENSDARG00000077583	2.934162629	7.11E-07
atxn10	ENSDARG00000008439	2.922390153	4.03E-07
si:ch73-289h5.4	ENSDARG00000077488	2.908500204	5.34E-12
cbln13	ENSDARG00000026904	2.896454212	0.027307287
opn1mw2	ENSDARG00000094617	2.894696654	0.000112808
galr1	ENSDARG00000005522	2.884193559	0.049251695
GPSM3	ENSDARG00000086246	2.850446445	3.72E-08
obfc1	ENSDARG00000007734	2.848042958	2.10E-07
SNAPC2	ENSDARG00000036473	2.846773528	4.11E-10
TPMT (2 of 2)	ENSDARG00000028012	2.841206817	5.11E-10
cmah	ENSDARG00000057714	2.840212357	4.92E-12
zgc:136461	ENSDARG00000093844	2.839724383	0.001309059
zgc:113426	ENSDARG00000051793	2.831225542	0.000235231
CU694226.1	ENSDARG00000059000	2.81977429	4.12E-09
CELA1 (2 of 8)	ENSDARG00000043173	2.814204963	0.026103657
TACO1 (1 of 2)	ENSDARG00000062943	2.813229754	3.10E-11
si:ch73-7i4.1	ENSDARG00000094554	2.80136679	0.000258965
zgc:113210	ENSDARG00000002872	2.792128689	5.58E-09
CU694226.2	ENSDARG00000059008	2.791697654	4.11E-05
BX539313.2	ENSDARG00000042984	2.788168	0.000130712
BX897747.1	ENSDARG00000053761	2.783738725	0.001326802
ENTPD5 (1 of 2)	ENSDARG00000053481	2.780360993	4.74E-10
TMEM150B	ENSDARG00000056144	2.777969058	0.000750758
SYCN (1 of 2)	ENSDARG00000090469	2.766499864	1.14E-07
dnaja11	ENSDARG00000030972	2.760273838	1.41E-05
si:ch211-218c6.3	ENSDARG00000091865	2.752872617	0.000325252
GZMH	ENSDARG00000014623	2.738496866	0.003255242
zgc:103601	ENSDARG00000036068	2.738388628	4.64E-05
ugt2b1	ENSDARG00000086865	2.73658685	0.005150184
tbx22	ENSDARG00000091748	2.721830156	0.004103604
cyp27a7	ENSDARG00000033802	2.720562072	1.25E-05
CR974475.2	ENSDARG00000090107	2.718429816	0.026835097

ZCCHC4	ENSDARG00000018810	2.715156855	4.11E-07
zgc:66473	ENSDARG00000087289	2.688407262	0.00262124
sult3st3	ENSDARG00000042920	2.688330524	1.86E-11
prmt2	ENSDARG00000063212	2.684475521	1.30E-05
dnajb1b	ENSDARG00000041394	2.681336516	0.00070108
si:dkey-22a18.2	ENSDARG00000087222	2.680518026	3.48E-05
cyp8b1	ENSDARG00000053068	2.678006373	6.13E-06
zgc:158417	ENSDARG00000068706	2.676031613	0.006128207
amy2a	ENSDARG00000013856	2.675917889	0.000673316
si:dkey-217m5.9	ENSDARG00000092331	2.668187573	0.01609068
si:dkey-21o19.3	ENSDARG00000092130	2.666242552	0.000399697
si:ch211-23714.6	ENSDARG00000056915	2.663263251	8.80E-06
BX323987.1	ENSDARG00000041333	2.663094734	0.012522482
ZMAT1	ENSDARG00000058679	2.6505214	1.74E-05
BX470254.1	ENSDARG00000055160	2.64730572	0.031401638
zgc:113333	ENSDARG00000038242	2.646118199	2.00E-12
olfm3b	ENSDARG00000039174	2.642739241	0.021194726
zgc:194314	ENSDARG00000078859	2.642383095	0.007650794
ap5m1	ENSDARG00000031533	2.637702182	1.19E-07
cnot7	ENSDARG00000032116	2.632824792	9.02E-05
si:ch73-21112.3	ENSDARG00000075932	2.63162665	0.01142501
ZNF32 (4 of 4)	ENSDARG00000087453	2.623781738	0.009004019
lipt1	ENSDARG00000025233	2.616493874	1.29E-06
med16	ENSDARG00000040779	2.612532247	8.76E-12
setmar	ENSDARG00000074836	2.602731354	0.028476794
btr06	ENSDARG00000054184	2.599181777	3.48E-05
NEU3 (2 of 5)	ENSDARG00000096368	2.599050464	0.03292354
CR382327.1	ENSDARG00000073754	2.595009563	0.020942471
LRRC8E	ENSDARG00000078283	2.576549906	9.25E-06
ERICH1	ENSDARG00000078130	2.57444565	2.63E-13
cyp2k18	ENSDARG00000038366	2.572050887	6.59E-07
foxe1	ENSDARG00000079266	2.56742638	8.89E-07
rbmx	ENSDARG00000014244	2.553469411	3.62E-22
tnni1a	ENSDARG00000000474	2.538399126	0.025938055
LRRC41	ENSDARG00000096306	2.536082893	0.000509408
CR932000.1	ENSDARG00000070541	2.532848722	0.030726542
BX004857.3	ENSDARG00000078137	2.531745817	0.028316178
crtac1a	ENSDARG00000059826	2.510033036	7.74E-16
cyp2k19	ENSDARG00000038367	2.509654309	1.71E-06
safb	ENSDARG00000020467	2.506591492	8.59E-22
zgc:66473	ENSDARG00000087375	2.504158995	0.007779001
aspm	ENSDARG00000071442	2.499254804	6.58E-18
ch25hl2	ENSDARG00000038728	2.496761516	0.035090999
si:dkey-156k2.8	ENSDARG00000087743	2.488908424	0.03024619
cdc20	ENSDARG00000020192	2.488667934	3.39E-09
cx55.5	ENSDARG00000069830	2.485740097	0.032456139
cyp17a1	ENSDARG00000033566	2.485195217	0.002348969

cyp27a1.4	ENSDARG00000055159	2.483473219	3.53E-05
CABZ01007930.1	ENSDARG00000087805	2.476443025	0.014634038
aplnr3	ENSDARG00000036670	2.469616378	4.00E-13
CR396586.2	ENSDARG00000091105	2.468385016	0.025855668
OLAH	ENSDARG00000058502	2.456668696	5.88E-05
tas1r3	ENSDARG00000006341	2.454066006	0.012669393
zgc:163083	ENSDARG00000070945	2.449115214	0.001895334
MFAP4 (2 of 14)	ENSDARG00000038682	2.438889186	0.000436293
ela2l	ENSDARG00000056765	2.43488257	1.29E-05
zgc:92137	ENSDARG00000009443	2.433467838	3.03E-05
trpv6	ENSDARG00000014496	2.431148369	6.04E-17
ca4b	ENSDARG00000042293	2.426432524	0.000587685
invs	ENSDARG00000002213	2.425032403	2.86E-06
MTERF	ENSDARG00000086107	2.420633681	0.002297429
si:rp71-81e14.2	ENSDARG00000070306	2.419351498	0.038900784
GLIPR1L2	ENSDARG00000045224	2.417532971	0.003590827
si:ch73-21112.1	ENSDARG00000053345	2.412525693	0.037429402
APOD (2 of 3)	ENSDARG00000060350	2.410041859	1.93E-15
si:dkey-14d8.7	ENSDARG00000045834	2.404859235	0.000200394
dmrt2b	ENSDARG00000070013	2.396451236	0.009788074
fam173b	ENSDARG00000033451	2.392472714	3.93E-06
phf23b	ENSDARG00000036305	2.383810838	5.43E-12
si:ch73-341p18.7	ENSDARG00000075855	2.383463941	0.004590478
si:dkey-125i10.3	ENSDARG00000094760	2.382340242	2.74E-08
CYP2W1 (6 of 10)	ENSDARG00000040426	2.365581985	0.010401332
nr5a5	ENSDARG00000039116	2.364516208	0.001958338
CABZ01080134.1	ENSDARG00000079971	2.362691717	0.003249326
ugt2b1	ENSDARG00000091624	2.359764608	2.16E-06
zgc:193801	ENSDARG00000076552	2.358145999	0.002837096
CABZ01064327.1	ENSDARG00000090459	2.357547551	0.000474217
C19H6orf136	ENSDARG00000056165	2.355519459	1.93E-13
	ENSDARG00000031534	2.354959128	0.009380003
FP236810.1	ENSDARG00000087325	2.354908722	0.000444606
BNC1	ENSDARG00000074397	2.353585592	3.06E-10
scnm1	ENSDARG00000003027	2.348920976	5.70E-05
MVD	ENSDARG00000074035	2.347672487	0.025980661
kpna2	ENSDARG00000038066	2.347561717	7.17E-13
cry2a	ENSDARG00000069074	2.341472902	3.75E-20
si:dkey-236e20.3	ENSDARG00000071495	2.339491651	0.014684375
rsg1	ENSDARG00000028442	2.332844937	0.000739882
si:dkey-48n15.2	ENSDARG00000057148	2.330207123	1.74E-06
	ENSDARG00000091838	2.329409595	2.00E-05
cx41.8	ENSDARG00000069450	2.328503045	0.02232197
evel	ENSDARG00000056012	2.325764999	0.015542631
BX004857.1	ENSDARG00000039895	2.324698945	0.008897784
kti12	ENSDARG00000054301	2.324404379	4.14E-05
si:dkey-29j8.1	ENSDARG00000090947	2.324194631	0.004477206

CT025934.2	ENSDARG00000090488	2.319291409	1.13E-08
si:ch211-42i9.5	ENSDARG00000095388	2.318421314	0.000214341
	ENSDARG00000036750	2.314612403	0.003401969
SNORD31	ENSDARG00000082087	2.313323257	0.019547548
si:dkey-21o19.5	ENSDARG00000095722	2.308955032	0.012988152
C13H1orf63	ENSDARG00000030440	2.301166691	1.96E-19
BX908386.1	ENSDARG00000040740	2.300504411	0.021430162
snaila	ENSDARG00000056995	2.300449857	8.80E-11
supv3l1	ENSDARG00000077728	2.298767946	6.21E-06
si:ch211-194h1.1	ENSDARG00000092729	2.297688719	0.027148493
g2e3	ENSDARG00000001313	2.293599916	1.12E-09
maf	ENSDARG00000015890	2.292412114	8.79E-11
CABZ01054394.3	ENSDARG00000090942	2.290201021	7.21E-05
SNORA32	ENSDARG00000081937	2.288883776	0.037565833
ankle2	ENSDARG00000035607	2.288587431	1.93E-07
CCDC87	ENSDARG00000045683	2.285172406	0.030684718
CELA1 (6 of 8)	ENSDARG00000095462	2.284665711	0.003291968
ms4a17a.9	ENSDARG00000043802	2.278588535	7.72E-12
serac1	ENSDARG00000056121	2.270861671	1.27E-08
si:dkey-222p3.1	ENSDARG00000071103	2.27069307	0.034169885
dio3a	ENSDARG00000089937	2.268164573	0.019302796
ankrd10a	ENSDARG00000037100	2.267465814	1.54E-10
AL935293.1	ENSDARG00000077585	2.265805996	5.47E-08
rfesd	ENSDARG00000058725	2.261770665	0.022276853
zgc:162962	ENSDARG00000087378	2.260507706	0.001057125
	ENSDARG00000052917	2.257480685	0.029862073
adrb1	ENSDARG00000088851	2.250500177	0.049589322
mfap4	ENSDARG00000090783	2.24970915	0.00052869
gprc6a	ENSDARG00000005371	2.245762032	0.006654029
zgc:113209	ENSDARG00000043808	2.245403747	0.0006471
ints6	ENSDARG00000013025	2.245096583	2.88E-09
abcg5	ENSDARG00000063078	2.244511363	3.20E-06
fhit	ENSDARG00000068850	2.243223843	0.006129202
tmem174	ENSDARG00000035388	2.242835706	0.00669713
p4ha1b	ENSDARG00000071082	2.239754465	9.21E-06
si:ch211-240i19.7	ENSDARG00000076313	2.238591971	0.010513522
abcg8	ENSDARG00000063059	2.238294286	0.002284955
zmynd8	ENSDARG00000007601	2.236587116	1.21E-10
ftr39p	ENSDARG00000079030	2.236461262	0.002451611
fads2	ENSDARG00000019532	2.235575197	0.010034466
zgc:66382	ENSDARG00000079274	2.234964258	9.15E-11
mll5	ENSDARG00000007523	2.234725438	1.61E-13
kcnv2b	ENSDARG00000062906	2.233576479	0.000556263
slx4ip	ENSDARG00000039069	2.232369679	0.017780512
tatdn3	ENSDARG00000054076	2.227918077	0.031273355
p2rx1	ENSDARG00000016695	2.226369107	0.02972606
zgc:64002	ENSDARG00000022370	2.225280177	0.002697183

si:dkey-119m7.8	ENSDARG00000096654	2.21965755	1.91E-05
myf5	ENSDARG00000007277	2.212648329	0.00079824
CABZ01064861.1	ENSDARG00000052643	2.210294044	0.002239755
lgals3bpa	ENSDARG00000037805	2.209913958	0.002495515
zgc:194189	ENSDARG00000008010	2.208946347	0.042788461
CABZ01069576.1	ENSDARG00000087722	2.206189442	0.004424366
hnmt	ENSDARG00000012796	2.203151345	0.014146044
pofut1	ENSDARG00000008953	2.202659198	2.05E-07
tram2	ENSDARG00000030092	2.201532245	4.65E-08
si:ch211-69g19.2	ENSDARG00000070656	2.20075546	6.09E-07
IGFALS	ENSDARG00000037836	2.200701753	0.043354659
zgc:152698	ENSDARG00000058464	2.200528033	0.039800655
ccnb1	ENSDARG00000051923	2.196173721	1.04E-11
ABI3 (2 of 2)	ENSDARG00000063283	2.194238817	1.90E-09
CELA1 (1 of 8)	ENSDARG00000017314	2.191625203	0.000674938
ugt2b3	ENSDARG00000011197	2.184462203	6.55E-06
her8a	ENSDARG00000016363	2.184403431	1.74E-05
cpa1	ENSDARG00000030915	2.183840389	3.45E-11
ptpn6	ENSDARG00000089043	2.181906188	0.003643376
zgc:153733	ENSDARG00000053257	2.17889542	0.002274604
tial1	ENSDARG00000009525	2.177256034	1.30E-15
CABZ01112647.1	ENSDARG00000090189	2.177157813	0.010553465
TMEM220	ENSDARG00000088981	2.176928186	0.021550317
PRODH (3 of 3)	ENSDARG00000086512	2.174065437	7.82E-06
ugt2a6	ENSDARG00000039501	2.168180311	1.85E-05
LYRM9	ENSDARG00000075528	2.165596642	0.037841633
CABZ01086926.1	ENSDARG00000088054	2.165399567	0.015062121
zgc:66484	ENSDARG00000030478	2.164430648	8.70E-07
zgc:103519	ENSDARG00000079272	2.163998358	0.000928343
MRS2	ENSDARG00000062872	2.16356928	0.021663895
shhb	ENSDARG00000038867	2.162818938	6.64E-06
INSC (1 of 2)	ENSDARG00000091425	2.162458412	0.001801389
slitrk2	ENSDARG00000006636	2.155071451	9.46E-08
slc12a3	ENSDARG00000013855	2.154450359	1.87E-10
trim35-30	ENSDARG00000042396	2.154236633	0.000230655
BX005305.6	ENSDARG00000090382	2.15415123	0.045996786
hoxa13a	ENSDARG00000007609	2.15265372	0.000585148
crp2	ENSDARG00000056462	2.148529549	0.011582932
si:ch211-240119.6	ENSDARG00000074613	2.148057283	7.48E-05
cyp2n13	ENSDARG00000042953	2.147357461	0.01965527
DNAJA4	ENSDARG00000051762	2.146833738	0.027609469
hsp90b1	ENSDARG00000003570	2.145398611	0.02039223
tubb4b	ENSDARG00000091444	2.143645952	9.93E-10
cyp3c4	ENSDARG00000070021	2.143121781	0.004310429
si:ch73-382f3.1	ENSDARG00000093833	2.142762131	0.001306183
gas5	ENSDARG00000092337	2.137360938	0.011850014
ctrl	ENSDARG00000068680	2.132163949	4.78E-05

zgc:112160	ENSDARG00000039730	2.129315914	1.39E-07
ap4m1	ENSDARG00000056871	2.128930129	1.44E-05
slc15a1b	ENSDARG00000044528	2.127392825	0.000272572
mkks	ENSDARG00000016139	2.127380065	0.00312041
BX088718.1	ENSDARG00000040463	2.127248213	0.003443765
BX119963.1	ENSDARG00000057542	2.126167208	0.003951749
ZBTB11	ENSDARG00000017886	2.125586956	3.68E-11
zgc:123217	ENSDARG00000059026	2.124021256	0.008354179
klhl6	ENSDARG00000026990	2.123475059	0.035740454
znf668	ENSDARG00000025226	2.123272984	4.22E-06
entpd2a.1	ENSDARG00000035506	2.121185109	0.000201282
si:dkey-27i16.3	ENSDARG00000057773	2.121127945	1.36E-08
pif1	ENSDARG00000020289	2.118779867	0.000198876
wu:fj41e11	ENSDARG00000038198	2.115929374	4.00E-11
prkrra	ENSDARG00000042489	2.115813932	2.79E-08
FP074874.1	ENSDARG00000089047	2.115499515	0.028115212
CYP2W1 (3 of 10)	ENSDARG00000040424	2.111749516	0.005420578
cant1b	ENSDARG00000087157	2.111278987	5.68E-08
si:dkey-159a18.1	ENSDARG00000056145	2.109288582	0.000608748
zgc:158614	ENSDARG00000061634	2.108519903	2.07E-10
olig4	ENSDARG00000052610	2.106727352	0.006770336
thnsl2	ENSDARG00000032584	2.106504884	0.000158189
zgc:162946	ENSDARG00000062467	2.105627576	0.031231449
si:dkey-11p23.9	ENSDARG00000087679	2.10059756	0.005489027
txnipb	ENSDARG00000070000	2.093235792	1.52E-09
CABZ01041769.2	ENSDARG00000074622	2.092987154	0.001903006
VPS72 (1 of 2)	ENSDARG00000088567	2.092783155	0.001086929
tmem70	ENSDARG00000078773	2.090269677	1.31E-06
s1pr5b	ENSDARG00000052192	2.088972695	0.025735734
AL935141.5	ENSDARG00000087625	2.08600357	0.034917169
jagn1b	ENSDARG00000014995	2.082813664	6.11E-05
cpsf4	ENSDARG00000020217	2.081358976	0.000304193
ptrhd1	ENSDARG00000016122	2.077166518	0.02033917
zgc:101640	ENSDARG00000022807	2.074455313	2.09E-08
pus1	ENSDARG00000045562	2.073781889	6.17E-05
dhrs9	ENSDARG00000019260	2.072796756	0.005462176
crhb	ENSDARG00000027657	2.072795485	0.000127708
FNBP4	ENSDARG00000051800	2.072334755	3.06E-14
FP236810.1	ENSDARG00000086782	2.07115098	0.03262403
mtmr8	ENSDARG00000008592	2.068645949	2.80E-07
slc6a13l	ENSDARG00000001354	2.066772208	0.000272512
scpp9	ENSDARG00000087178	2.064885795	2.57E-06
minal	ENSDARG00000036359	2.064405386	1.17E-07
ptk6b	ENSDARG00000059956	2.063947543	2.03E-06
CABZ01100326.1	ENSDARG00000087598	2.062031483	0.000407867
wnt4a	ENSDARG00000071208	2.06111084	4.90E-05
fam122b	ENSDARG00000036500	2.060219469	4.64E-09

myf6	ENSDARG00000029830	2.055808557	0.004345638
tdo2a	ENSDARG00000071429	2.054233751	1.50E-06
insm1b	ENSDARG00000053301	2.054176146	3.96E-09
zgc:163098	ENSDARG00000078911	2.051595682	4.65E-10
FKBPL	ENSDARG00000095322	2.051260887	0.001336049
try	ENSDARG00000042993	2.049947626	3.29E-09
SLC22A7 (5 of 5)	ENSDARG00000091252	2.048609486	0.007804948
zgc:113119	ENSDARG00000043805	2.048344464	0.005019742
taf5	ENSDARG00000018325	2.047771616	3.48E-09
rccd1	ENSDARG00000071074	2.047656635	0.02191868
ptk6a	ENSDARG00000017947	2.044147179	0.005778381
CT583625.1	ENSDARG00000086621	2.04257538	0.043067842
lrrc23	ENSDARG00000006174	2.038276863	0.032779491
si:ch211-280c20.7	ENSDARG00000095197	2.03742306	0.014287621
pars2	ENSDARG00000044404	2.035778847	0.000239859
lactb	ENSDARG00000040803	2.034083433	1.82E-06
si:ch211-234p6.10	ENSDARG00000056498	2.033534111	0.047923499
rerqlb	ENSDARG00000054324	2.032006778	0.016266926
anpepb	ENSDARG00000075168	2.029513286	6.93E-14
pex12	ENSDARG00000035149	2.028716896	0.001221511
BX571679.1	ENSDARG00000058845	2.028628445	0.006318199
CU693369.1	ENSDARG00000089534	2.028422897	3.47E-08
lpcat4	ENSDARG00000035028	2.027214021	1.76E-06
trim110	ENSDARG00000068240	2.026980133	0.023221804
sumf1	ENSDARG00000044203	2.026947892	1.42E-05
CCNA2 (2 of 2)	ENSDARG00000089988	2.026931254	7.34E-06
btr32	ENSDARG00000053940	2.025217951	0.035584883
hey1	ENSDARG00000055798	2.024620048	0.024392436
si:ch211-51h9.7	ENSDARG00000074720	2.023800117	0.000507814
ABHD12B (1 of 2)	ENSDARG00000069828	2.023447649	0.00608325
pdzd3b	ENSDARG00000055656	2.023384633	0.02879753
cyp7a1a	ENSDARG00000069018	2.020875172	2.25E-05
fam49ba	ENSDARG00000020929	2.019649965	0.00019811
ascl1b	ENSDARG00000094379	2.018723176	4.57E-06
foxd1	ENSDARG00000029179	2.018617543	3.50E-05
SIMC1	ENSDARG00000089939	2.017935363	0.000604006
zgc:110712	ENSDARG00000019365	2.017813833	3.53E-05
fam58a	ENSDARG00000037537	2.016788693	1.87E-05
serpinh1a	ENSDARG00000075954	2.015202793	0.000138096
RBPMS	ENSDARG00000088558	2.014136412	0.000108497
slc10a2	ENSDARG00000014916	2.013281056	1.14E-05
PPIL3	ENSDARG00000033370	2.012311316	0.003905092
si:ch211-205a14.1	ENSDARG00000095055	2.011878819	0.000785822
phc1	ENSDARG00000002971	2.010901924	1.12E-08
C6H1orf74	ENSDARG00000017657	2.009654186	0.029677258
hoxd13a	ENSDARG00000059256	2.008033343	0.021573987
ccdc51	ENSDARG00000058828	2.004814916	0.001775329

hnf4g	ENSDARG00000071565	2.002794419	4.67E-06
mrps24	ENSDARG00000042517	2.002347983	0.009913936
si:ch211-76m11.3	ENSDARG00000092284	2.000916605	0.00158828
RNH1 (5 of 8)	ENSDARG00000011581	1.998637388	1.00E-05
casp8l1	ENSDARG00000058341	1.997357324	0.001985448
CU929417.2	ENSDARG00000088111	1.99710802	3.56E-05
hspa5	ENSDARG00000004665	1.996889172	0.000391947
syce2	ENSDARG00000058375	1.995558556	0.011210876
stc2a	ENSDARG00000056680	1.995064535	9.03E-09
cenpf	ENSDARG00000055133	1.993515758	0.000199327
CR548641.1	ENSDARG00000091734	1.992052447	0.014646247
TAF4	ENSDARG00000068192	1.990452942	6.41E-06
fam151a	ENSDARG00000058218	1.990296232	0.000142253
FBXL6	ENSDARG00000077227	1.99022943	5.43E-07
smtlb	ENSDARG00000017251	1.990164764	0.031329689
EIF2AK3	ENSDARG00000062139	1.989896675	8.55E-11
mnat1	ENSDARG00000002077	1.989485409	6.10E-05
svopl	ENSDARG00000057983	1.98811273	2.63E-05
ccnb3	ENSDARG00000034855	1.987388039	1.76E-05
dars2	ENSDARG00000060861	1.985669513	2.27E-06
CR538726.1	ENSDARG00000076528	1.983744607	0.001222469
AL954697.1	ENSDARG00000087906	1.983567592	0.010187245
inip	ENSDARG00000028523	1.982763905	0.000355655
ctrb1	ENSDARG00000090428	1.98227932	3.54E-05
CABZ01067557.1	ENSDARG00000063721	1.980787727	0.035725551
si:ch211-216l23.2	ENSDARG00000069122	1.979161607	9.02E-11
ect2	ENSDARG00000007278	1.978856239	1.11E-06
cpa4	ENSDARG00000043722	1.978803078	3.44E-11
cyp2aa2	ENSDARG00000087868	1.97869484	0.001296653
cyp3a65	ENSDARG00000045627	1.974289928	0.001514927
nusap1	ENSDARG00000002403	1.974143681	1.69E-09
pdia4	ENSDARG00000018491	1.973801709	0.026545628
ccnk	ENSDARG00000034146	1.973449249	1.40E-06
rcor2	ENSDARG00000008278	1.971740191	5.31E-09
zgc:63863	ENSDARG00000039194	1.971732719	0.00027977
slc22a7b	ENSDARG00000056643	1.97169437	0.020940923
AL807792.1	ENSDARG00000092755	1.970483957	0.021732973
tpx2	ENSDARG00000078654	1.967456277	1.35E-10
tmem177	ENSDARG00000069301	1.967424584	1.90E-06
prmt6	ENSDARG00000069706	1.966394233	0.00035857
taf5l	ENSDARG00000025808	1.965200046	2.67E-06
ipo8	ENSDARG00000058159	1.964888247	7.20E-06
chia.4	ENSDARG00000008541	1.962711378	0.0135518
si:ch211-188c16.1	ENSDARG00000077288	1.961367542	0.024320619
si:dkey-206d17.11	ENSDARG00000093742	1.961042911	0.047732947
parpbp	ENSDARG00000029944	1.960343321	5.90E-05
dhrs11b	ENSDARG00000031299	1.959522126	0.001469999

CMAS (2 of 3)	ENSDARG00000091267	1.959483199	0.046888041
ptcd2	ENSDARG00000035391	1.957487095	0.000412818
zgc:101129	ENSDARG00000094974	1.95697642	5.96E-05
plac811	ENSDARG00000069031	1.956689287	0.030099418
slc6a19a	ENSDARG00000018621	1.954338991	0.009402419
CR854855.2	ENSDARG00000090480	1.953412457	0.000612174
chd4a	ENSDARG00000063535	1.952751804	2.48E-12
p4ha2	ENSDARG00000010085	1.952333459	2.62E-07
CR812464.1	ENSDARG00000090970	1.952274297	1.59E-06
pdip5	ENSDARG0000009001	1.951237898	0.003601429
si:ch211-132b12.2	ENSDARG00000094946	1.950801207	0.026362204
gins3	ENSDARG00000038847	1.950593535	0.00108466
CR385022.1	ENSDARG00000079569	1.948754143	0.003439054
zgc:172057	ENSDARG00000038458	1.943881728	0.019115033
tmprss13a	ENSDARG00000057040	1.940161174	0.001822866
zgc:172128	ENSDARG00000077683	1.939035645	0.000793029
top11	ENSDARG00000070545	1.938621244	7.14E-12
si:dkey-154p10.3	ENSDARG00000068366	1.938277542	0.000193285
dyn11	ENSDARG00000058454	1.937468729	0.000150073
ANXA9	ENSDARG00000053593	1.93732996	0.001644029
fam26e	ENSDARG00000074947	1.937315311	0.002789972
CR848836.6	ENSDARG00000076710	1.936579313	0.000619527
xrcc6bp1	ENSDARG00000063686	1.936406007	0.00185245
sf3b4	ENSDARG00000018574	1.935885637	3.74E-09
sp1	ENSDARG00000088347	1.934682463	8.87E-08
uo:ion006	ENSDARG00000076244	1.933852011	0.00183744
E2F3	ENSDARG00000070463	1.93308051	1.40E-07
im:7136021	ENSDARG00000054128	1.932972156	0.000426877
ela3l	ENSDARG00000007276	1.932859238	0.019337108
slc25a48	ENSDARG00000021250	1.931237772	0.008450022
optc	ENSDARG00000014358	1.930853281	0.044341712
slc6a19b	ENSDARG00000056719	1.928363766	0.010724354
abhd10b	ENSDARG00000075627	1.928132608	0.001027477
GPR112 (1 of 2)	ENSDARG00000087813	1.927694435	5.23E-05
CU638740.1	ENSDARG00000079429	1.926131998	0.002720658
fzd8a	ENSDARG00000045444	1.922866715	4.23E-09
fbxo42	ENSDARG00000087545	1.92245555	1.05E-06
FAM53C	ENSDARG00000045127	1.922395149	2.15E-08
CABZ01112331.1	ENSDARG00000006990	1.922234316	2.01E-06
gtf3c3	ENSDARG00000043247	1.922002146	0.000525414
minpp1b	ENSDARG00000045172	1.921846662	0.003279995
zgc:85910	ENSDARG00000056381	1.921688643	0.00035034
badb	ENSDARG00000054937	1.920814434	1.72E-05
MRPS28	ENSDARG00000041538	1.920371812	0.000116655
ppt2	ENSDARG00000070883	1.919957363	2.75E-06
abcd4	ENSDARG00000061770	1.919399239	5.23E-06
si:dkey-238o13.4	ENSDARG00000078847	1.918719999	0.000404573

slco2b1	ENSDARG00000054609	1.9181816	5.83E-08
UBAC2 (1 of 2)	ENSDARG00000060581	1.916395585	0.000168963
arl4aa	ENSDARG00000022934	1.915457068	0.000245288
pparg	ENSDARG00000031848	1.914274942	9.47E-06
BX682552.1	ENSDARG00000059491	1.912510523	0.048751472
tm4sf5	ENSDARG00000055185	1.912450182	1.97E-06
nelfa	ENSDARG00000061411	1.912443929	1.46E-06
ubxn7	ENSDARG00000009436	1.9122353	2.88E-07
epd	ENSDARG00000014745	1.910827604	0.006588318
amn	ENSDARG00000062947	1.910737664	0.001174678
CR376751.1	ENSDARG00000076287	1.910437682	0.044156963
plk1	ENSDARG00000058471	1.909568186	1.26E-09
si:ch73-108h4.3	ENSDARG00000094004	1.90862995	6.83E-07
apex1	ENSDARG00000045843	1.906390049	8.39E-11
hoxd12a	ENSDARG00000059263	1.906279462	0.001658485
dnajc3	ENSDARG00000041110	1.906237681	0.005904195
FBXO15 (2 of 2)	ENSDARG00000029848	1.906110186	0.014339066
ftr53	ENSDARG00000041220	1.905920024	0.031697093
prhoxnb	ENSDARG00000071579	1.905641298	0.00278539
zgc:162962	ENSDARG00000089693	1.904347454	0.0124132
cdk1	ENSDARG00000087554	1.903919914	1.84E-06
zgc:113372	ENSDARG00000053263	1.903664271	0.00010933
coq6	ENSDARG00000060380	1.903617606	5.66E-06
eefsec	ENSDARG00000004696	1.903193252	4.50E-06
zgc:92630	ENSDARG00000004141	1.900997939	1.33E-08
hkdc1	ENSDARG00000038703	1.899840776	7.12E-09
and4	ENSDARG00000090729	1.899815872	8.64E-06
si:dkeyp-2e4.8	ENSDARG00000005010	1.899563629	7.80E-07
si:dkey-16p6.4	ENSDARG00000068161	1.898834711	0.048692956
lig4	ENSDARG00000060620	1.898794294	0.000199982
setd6	ENSDARG00000043986	1.898467864	0.000518274
mir137-2	ENSDARG00000082099	1.897982642	0.049863476
chchd4	ENSDARG00000033376	1.896388091	7.78E-05
fance	ENSDARG00000068870	1.892497469	0.000170259
C11H19orf25 (1 of 2)	ENSDARG00000076890	1.891943979	0.01225746
cdk7	ENSDARG00000051916	1.891802693	9.26E-07
atp13a2	ENSDARG00000061890	1.891175201	4.27E-06
si:ch73-103b2.3	ENSDARG00000073742	1.890525121	3.52E-11
si:dkeyp-110g5.4	ENSDARG00000092482	1.888089232	0.000480248
htr1b	ENSDARG00000053987	1.887605525	0.006513202
FP236513.2	ENSDARG00000071105	1.887131115	0.002107355
trim45	ENSDARG00000076781	1.886891061	0.00079253
si:ch211-240119.5	ENSDARG00000039393	1.886727357	7.31E-07
tmem69	ENSDARG00000076017	1.886685867	0.003262659
ipmka	ENSDARG00000076699	1.885984596	0.0043115
ndufaf5	ENSDARG00000061629	1.884731665	1.66E-06
six2a	ENSDARG00000058004	1.884033498	3.23E-07

exosc4	ENSDARG00000088210	1.883963257	9.85E-06
zgc:158263	ENSDARG00000037267	1.883926377	9.49E-07
pigo	ENSDARG00000011743	1.881930138	2.37E-08
cdca7a	ENSDARG00000077620	1.881479704	3.00E-08
IFITM5	ENSDARG00000091273	1.880941037	0.000130257
thada	ENSDARG00000053082	1.880729803	0.000930134
naf1	ENSDARG00000057929	1.880596065	2.93E-05
MFAP4 (7 of 14)	ENSDARG00000088745	1.880111462	0.000844434
ugt5e1	ENSDARG00000058048	1.877866134	0.002038517
thoc3	ENSDARG00000056517	1.875923264	6.68E-06
shq1	ENSDARG00000058522	1.875887576	3.65E-05
mob1bb	ENSDARG00000012953	1.875610472	9.87E-08
FAM185A	ENSDARG00000019142	1.875223354	0.003915383
si:dkeyp-117h8.4	ENSDARG00000043004	1.87438888	0.000440432
rac1l	ENSDARG00000054649	1.874346784	0.017818102
grk7b	ENSDARG00000055534	1.874056302	0.001637255
her15.1	ENSDARG00000054560	1.873159611	6.19E-05
pdcd4b	ENSDARG00000041022	1.872884088	8.83E-10
synpr	ENSDARG00000044278	1.872697593	0.006200664
babam1	ENSDARG00000077526	1.872555538	3.58E-07
si:dkey-240n22.6	ENSDARG00000089296	1.871761046	3.02E-05
CABZ01052953.2	ENSDARG00000088261	1.870915499	0.029628374
mchr1b	ENSDARG00000022525	1.870454328	0.033613042
serpinf2a	ENSDARG00000076448	1.869901067	0.00241873
gtpbp5	ENSDARG00000063574	1.86976941	1.65E-05
hnf4a	ENSDARG00000021494	1.86948601	2.90E-07
MRPS12 (1 of 2)	ENSDARG00000089836	1.868363176	0.036030614
dpp4	ENSDARG00000079420	1.866940117	5.11E-06
cyp2y3	ENSDARG00000007173	1.865695073	9.43E-11
commd8	ENSDARG00000028201	1.864895628	0.001991372
nup43	ENSDARG00000043884	1.864624388	0.000180632
si:ch73-386o14.1	ENSDARG00000091917	1.863702637	0.000301313
nanp	ENSDARG00000075143	1.862982238	0.002109252
CDCP1 (1 of 3)	ENSDARG00000091644	1.862174633	0.000806562
anapc4	ENSDARG00000032237	1.86203896	3.70E-05
pik3ap1	ENSDARG00000078285	1.861723824	0.015271881
ms4a17a.11	ENSDARG00000053561	1.861627059	2.82E-05
ILKAP	ENSDARG00000040615	1.860876897	0.000301805
	ENSDARG00000091294	1.860159954	0.013443422
ngly1	ENSDARG00000003205	1.858674248	1.78E-07
mcm3	ENSDARG00000024204	1.85763416	5.60E-08
FASTKD5	ENSDARG00000091717	1.857425262	0.000220809
hdhd1	ENSDARG00000027826	1.857290592	0.00491003
exosc2	ENSDARG00000028688	1.857041073	6.60E-05
bdkrb1	ENSDARG00000020744	1.856874727	0.008924602
ugdh	ENSDARG00000019838	1.856795867	2.09E-09
creld2	ENSDARG00000029071	1.856787682	0.026761567

MPLKIP	ENSDARG00000078986	1.855059743	8.97E-06
usp48	ENSDARG00000090301	1.854398557	6.57E-07
tacc3	ENSDARG00000005454	1.85421243	1.06E-08
mettl21a	ENSDARG00000012051	1.854035998	0.009950268
tmem187	ENSDARG00000051989	1.853927882	0.012335646
zgc:153896	ENSDARG00000003977	1.853665304	0.000336383
wipf2b	ENSDARG00000006712	1.852954882	1.87E-08
mstnb	ENSDARG00000069133	1.852883004	0.010008225
uggt1	ENSDARG00000054746	1.852220009	1.83E-07
poli	ENSDARG00000029250	1.852042297	0.000352888
zgc:110626	ENSDARG00000053159	1.851346561	6.17E-07
mtrr	ENSDARG00000045398	1.85053918	2.93E-05
BX248510.1	ENSDARG00000075422	1.849157869	0.000645473
larp6	ENSDARG00000005355	1.849144878	1.84E-07
tango6	ENSDARG00000034001	1.848434443	0.000998166
sfrp5	ENSDARG00000039041	1.847840906	9.51E-06
phax	ENSDARG00000044298	1.847588933	2.73E-07
commd9	ENSDARG00000094258	1.846990454	0.000505394
zgc:111974	ENSDARG00000046081	1.846689082	1.46E-05
CU928854.1	ENSDARG00000068493	1.846622307	1.08E-05
cyp51	ENSDARG00000042641	1.846326759	0.045765359
C1H7orf26	ENSDARG00000037652	1.845339654	4.29E-05
crispld1b	ENSDARG00000013293	1.845237086	1.14E-06
mcat	ENSDARG00000016613	1.842210654	0.004011441
vps45	ENSDARG00000061180	1.841363283	1.17E-07
kif11	ENSDARG00000010948	1.840842711	4.12E-09
scarb1	ENSDARG00000042697	1.840733012	4.69E-07
zgc:113516	ENSDARG00000008035	1.840553541	2.44E-06
CU596012.2	ENSDARG00000069841	1.840053908	0.000471894
fam84a	ENSDARG00000018921	1.839317861	1.64E-07
CU571169.5	ENSDARG00000091640	1.839106521	0.025141069
si:dkey-33c12.4	ENSDARG00000057890	1.839014491	1.01E-06
aptx	ENSDARG00000027143	1.83885948	0.001299936
myo5ab	ENSDARG00000025218	1.837684754	0.002565246
entpd2a.2	ENSDARG00000033953	1.837559278	0.034255201
MTRF1	ENSDARG00000033579	1.837494811	0.004090794
gpr85	ENSDARG00000068701	1.836315649	7.77E-08
sltm	ENSDARG00000052728	1.836262124	2.09E-10
ttc9c	ENSDARG00000007025	1.835396882	0.000609827
rnf168	ENSDARG00000026757	1.834803547	0.006951788
si:dkey-45k15.1	ENSDARG00000061714	1.833950915	0.02017569
mif4gdb	ENSDARG00000006331	1.833900936	0.018148203
TIMM22	ENSDARG00000091413	1.833841306	9.34E-05
ephx1l	ENSDARG00000008887	1.833011912	1.21E-06
SH3PXD2A (2 of 2)	ENSDARG00000061758	1.832688	5.22E-05
ybey	ENSDARG00000011999	1.831925579	0.02276666
BX510926.2	ENSDARG00000075368	1.831633959	0.044533904

tgm114	ENSDARG00000040569	1.831228098	0.008618979
ints3	ENSDARG00000016811	1.830481576	2.42E-07
cbln2a	ENSDARG00000074601	1.829757928	0.022857789
nsun4	ENSDARG00000021324	1.827945307	0.015009429
grn2	ENSDARG00000088641	1.827460739	0.048850629
slc39a13	ENSDARG00000000442	1.824916492	8.27E-07
adat2	ENSDARG00000041944	1.823921118	5.62E-05
TTC37	ENSDARG00000074314	1.821414929	1.54E-05
atoh1a	ENSDARG00000055294	1.820673628	0.010513521
gmcl1	ENSDARG00000020948	1.819840939	4.47E-07
plaa	ENSDARG00000042728	1.819642936	2.31E-07
lrp6	ENSDARG00000076053	1.819042985	5.96E-06
mrpl20	ENSDARG00000090462	1.818539117	2.46E-06
mkrn4	ENSDARG00000028295	1.818408243	3.83E-05
fam60a1	ENSDARG00000095007	1.818224838	6.90E-08
chchd7	ENSDARG00000068156	1.818155548	7.62E-05
ppcs	ENSDARG00000061889	1.817398973	0.000669205
spsb4b	ENSDARG00000040538	1.816944359	5.26E-05
alg1	ENSDARG00000054963	1.816352997	3.89E-05
mitfa	ENSDARG00000003732	1.816233473	0.008256457
CINP	ENSDARG00000073910	1.816093268	0.001154236
zbtb25	ENSDARG00000042383	1.814994167	0.000116569
rnaseh1	ENSDARG00000042571	1.813544934	0.000460841
gemin5	ENSDARG00000079257	1.812873283	3.38E-06
tram1	ENSDARG00000019137	1.812829638	0.000166979
unc50	ENSDARG00000040455	1.811494966	6.74E-06
pls1	ENSDARG00000039272	1.811168693	2.22E-06
GPR151	ENSDARG00000076565	1.810670355	0.009013415
wdr83	ENSDARG00000041600	1.81054717	0.000273392
mtrf11	ENSDARG00000060005	1.810137165	0.008289722
dnajc24	ENSDARG00000023927	1.809650021	0.019725435
DTX3L (2 of 2)	ENSDARG00000089511	1.809372094	0.020615268
dnajb1a	ENSDARG00000015831	1.808891798	5.52E-05
TIMM21	ENSDARG00000071594	1.807901106	0.001775325
cxxc4	ENSDARG00000077817	1.807776151	0.000941929
btd	ENSDARG00000006926	1.807612054	0.000213821
si:dkey-246g23.4	ENSDARG00000013775	1.807598303	0.021039838
slc7a9	ENSDARG00000005894	1.807515593	0.008560141
si:ch211-14k19.12	ENSDARG00000096584	1.806706645	1.32E-05
inaa	ENSDARG00000011862	1.806214145	0.010923494
si:ch1073-309n14.1	ENSDARG00000092985	1.806191509	0.020652084
egln1	ENSDARG00000004632	1.805786306	4.94E-07
ptgdsb	ENSDARG00000027088	1.805487127	0.012618534
AKIP1	ENSDARG00000069037	1.805283633	0.042128449
gba2	ENSDARG00000061472	1.80516389	2.51E-08
med21	ENSDARG00000026839	1.805163074	0.000251443
zw10	ENSDARG00000018738	1.805022145	4.17E-05

nkx3.2	ENSDARG00000037639	1.804511209	6.69E-05
arhgef19	ENSDARG00000078853	1.803858188	1.61E-05
tyw3	ENSDARG00000038222	1.803535261	0.002394093
FP236168.1	ENSDARG00000076426	1.803511343	0.00011636
ggcta	ENSDARG00000076406	1.803327796	0.008537962
C21HXorf40B	ENSDARG00000044480	1.801356111	0.005056948
fam46a	ENSDARG00000054641	1.801309437	0.011475791
tmem119b	ENSDARG00000068036	1.800226644	0.000283698
BX088691.1	ENSDARG00000009702	1.799218708	5.41E-05
si:ch211-106j21.1	ENSDARG00000091420	1.799100416	0.01325204
si:rp71-68n21.9	ENSDARG00000067751	1.799081024	0.000999002
si:ch211-258f1.3	ENSDARG00000087316	1.797309325	0.018492754
tim50	ENSDARG00000031098	1.797290848	0.000179868
rpap1	ENSDARG00000075072	1.796179347	2.09E-06
DNAJB9 (1 of 2)	ENSDARG00000052072	1.795979546	2.75E-05
si:ch211-262h13.3	ENSDARG00000070898	1.795430475	3.26E-05
atp6v1e1a	ENSDARG00000003635	1.795130098	0.000674271
pycard	ENSDARG00000040076	1.794328676	2.36E-07
naa40	ENSDARG00000024109	1.792932022	1.33E-07
tes	ENSDARG00000051857	1.792103138	6.09E-05
ugt5b3	ENSDARG00000094549	1.791524886	6.68E-05
n6amt2	ENSDARG00000040584	1.791346978	0.011917529
FHL5	ENSDARG00000014805	1.790672152	9.28E-06
BX511066.3	ENSDARG00000091160	1.79042323	0.033182535
foxk2	ENSDARG00000030583	1.790387988	2.05E-08
fam129aa	ENSDARG00000042055	1.790264259	4.65E-05
CABZ01102039.1	ENSDARG00000076357	1.789821977	9.41E-05
hic1	ENSDARG00000055493	1.78817948	3.10E-05
mrpl14	ENSDARG00000068886	1.787511959	3.43E-05
faub	ENSDARG00000043663	1.784438603	0.004879614
atoh1b	ENSDARG00000033400	1.784432693	0.047506312
slc35d1b	ENSDARG00000027986	1.783240325	0.005188501
nat15	ENSDARG00000061185	1.783215629	8.69E-06
adob	ENSDARG00000053571	1.780662857	1.51E-06
bub1bb	ENSDARG00000074927	1.78035136	0.000366821
slc44a5a	ENSDARG00000017398	1.779979847	0.00427778
sap130a	ENSDARG00000056924	1.779623071	4.38E-07
C2H7orf25	ENSDARG00000057184	1.779471317	0.000128219
zgc:112146	ENSDARG00000038196	1.778369634	0.004007931
slc35b3	ENSDARG00000045437	1.777473787	7.20E-06
golt1ba	ENSDARG00000022795	1.776963015	0.002327194
ccdc41	ENSDARG00000055720	1.77632473	0.000167239
ascl1a	ENSDARG00000038386	1.775195992	6.75E-06
ssscal	ENSDARG00000069109	1.774453604	5.02E-05
SLC28A2	ENSDARG00000060879	1.77392723	2.05E-05
uba2	ENSDARG00000077024	1.77364181	6.00E-08
nkx2.2a	ENSDARG00000053298	1.773263847	4.39E-05

nog1	ENSDARG00000058819	1.772488022	0.000556682
osr2	ENSDARG00000038006	1.772428593	0.001102722
si:ch73-60g14.2	ENSDARG00000092226	1.772380796	0.021232342
EIF4BA	ENSDARG00000017439	1.771503596	1.58E-07
EIF2AK1	ENSDARG00000093182	1.770655515	0.000720326
VASNB	ENSDARG00000016293	1.769033091	1.64E-07
STMN2B	ENSDARG00000070537	1.76872328	3.19E-09
GYG1B	ENSDARG00000059391	1.768400951	2.21E-08
HELLS	ENSDARG00000057738	1.767774802	0.000387489
si:dkeyp-38g8.5	ENSDARG00000056954	1.767754325	0.001398157
AP3M1	ENSDARG00000029928	1.76720703	0.001653005
CU207301.10	ENSDARG00000091667	1.766182593	0.000303719
PRNPA	ENSDARG00000026229	1.765698879	0.019109308
NOG3	ENSDARG00000079003	1.765672081	0.008310515
PRC1B	ENSDARG00000005993	1.765644293	0.000129603
MAPKAPK5	ENSDARG00000028082	1.765057698	3.19E-05
PPIFA	ENSDARG00000007409	1.765034775	0.000862263
URP2	ENSDARG00000067781	1.764340427	0.015868979
LAP3	ENSDARG00000061981	1.763923451	3.70E-06
WASA	ENSDARG00000015149	1.763627636	0.02635363
LRIG3	ENSDARG00000079363	1.762248065	6.71E-06
ZNF70 (1 of 2)	ENSDARG00000069869	1.762183284	0.024919215
MDH1B	ENSDARG00000092649	1.761665586	6.67E-09
HER6	ENSDARG00000006514	1.761301665	8.15E-07
SAAL1	ENSDARG00000018681	1.760468924	0.001644973
KBTBD7	ENSDARG00000078001	1.760349425	0.00279078
si:dkey-84h14.2	ENSDARG00000091013	1.760100986	0.02865121
PCMTL	ENSDARG00000042848	1.759448585	0.000173915
BX005356.1	ENSDARG00000077880	1.759036405	0.003162993
CYB5B	ENSDARG00000053954	1.758548843	1.03E-05
SLC30A10	ENSDARG00000034877	1.757999171	0.001716465
PITX1	ENSDARG00000042785	1.757929589	9.30E-06
VRK3	ENSDARG00000036056	1.757901897	5.89E-05
RHBDD3	ENSDARG00000079816	1.755961646	0.004263303
GEMIN8	ENSDARG00000053496	1.755445448	0.00038334
zgc:174259	ENSDARG00000091136	1.75489965	0.017681321
SLITRK4	ENSDARG00000079781	1.753738759	1.06E-05
LYPD6B	ENSDARG00000077643	1.753519495	0.039871902
CDCA2	ENSDARG00000068759	1.753374658	2.59E-06
si:dkey-20i10.7	ENSDARG00000075269	1.753260402	0.000488095
zgc:153116	ENSDARG00000077205	1.753153321	0.04524483
VSTM4A	ENSDARG00000010154	1.75299824	0.000525173
MAL	ENSDARG00000030094	1.752669677	9.80E-05
PIGA	ENSDARG00000041040	1.752055639	0.000763763
si:dkey-234h16.7	ENSDARG00000095754	1.751942762	0.000357187
FASTKD3	ENSDARG00000075652	1.751855897	1.86E-05
THAP11	ENSDARG00000036055	1.751114918	0.000447553

nr1h4	ENSDARG00000057741	1.75092185	0.00053577
si:dkey-182i3.10	ENSDARG00000096614	1.750196387	0.000734226
tnni2a.3	ENSDARG00000013752	1.749604867	0.001281131
ugt2b6	ENSDARG00000058841	1.749406632	0.000180589
pex11b	ENSDARG00000069147	1.748915472	0.001276671
exosc6	ENSDARG00000036060	1.748541005	0.003924764
fbxo22	ENSDARG00000053505	1.748532909	0.000537029
glipr2	ENSDARG00000041724	1.74833782	0.011955472
NOG (2 of 3)	ENSDARG00000053528	1.748185463	0.01015235
ahsg	ENSDARG00000026764	1.747841174	0.022264963
akr7a3	ENSDARG00000016649	1.747753224	0.009113747
pafah1b2	ENSDARG00000035352	1.747002054	3.36E-07
si:ch211-67e16.11	ENSDARG00000095580	1.746549951	5.18E-05
RABGAP1	ENSDARG00000060315	1.746487696	0.000348918
ERP27	ENSDARG00000036433	1.74596957	0.000434964
srsf2b	ENSDARG00000010906	1.74576177	8.82E-07
myct1	ENSDARG00000056125	1.745071087	0.003133428
si:dkey-189h5.6	ENSDARG00000095188	1.744876495	0.042705562
KRTCAP2	ENSDARG00000070386	1.744237036	2.48E-06
hdhd3	ENSDARG00000053934	1.744174329	0.003388586
si:ch211-246m6.4	ENSDARG00000042857	1.743501837	0.03280855
si:ch211-207d6.4	ENSDARG00000092539	1.742840525	8.78E-07
pofut2	ENSDARG00000045175	1.742458902	0.005329703
mir133b	ENSDARG00000096639	1.742171082	0.005383781
rgrb	ENSDARG00000044445	1.740741568	1.04E-06
PRR13	ENSDARG00000086216	1.740683532	1.33E-06
rbfa	ENSDARG00000073705	1.740265703	0.004084132
si:ch1073-357b18.4	ENSDARG00000096602	1.739950923	0.008098307
PREB	ENSDARG00000054897	1.739907608	2.15E-06
hnrnpm	ENSDARG00000061735	1.739366171	2.50E-09
CNOT4 (1 of 2)	ENSDARG00000007639	1.738940387	7.14E-07
gtpbp11	ENSDARG00000042900	1.73686373	0.002359328
BX324131.3	ENSDARG00000078801	1.73684532	0.003699549
rmil	ENSDARG00000041376	1.736530449	0.008598241
SLC13A5 (2 of 2)	ENSDARG00000077691	1.736230889	0.000984307
prr11	ENSDARG00000087393	1.735737413	0.007871214
styk1	ENSDARG00000041947	1.734656018	0.024246939
CCDC15	ENSDARG00000067517	1.734489309	0.003952663
MCMDC2	ENSDARG00000073834	1.733840362	0.022697371
abcc2	ENSDARG00000014031	1.733653625	6.53E-09
CU693495.1	ENSDARG00000088955	1.733493942	0.01759223
alkbh6	ENSDARG00000077253	1.73311504	0.004647115
nfe2	ENSDARG00000020606	1.733053286	4.25E-07
POLR2H	ENSDARG00000038505	1.731762648	0.043680244
si:dkey-78p8.2	ENSDARG00000078166	1.73131047	0.003570744
PXMP2	ENSDARG00000003144	1.73121236	0.005973794
tmpoa	ENSDARG00000007315	1.731024812	2.46E-06

si:ch211-214j8.12	ENSDARG00000092556	1.730195364	0.009396145
FP103059.1	ENSDARG00000087555	1.728978865	2.54E-05
C7H11orf68	ENSDARG00000019406	1.728933188	2.94E-05
CABZ01033205.2	ENSDARG00000090943	1.728396655	0.001625319
TESK1 (1 of 2)	ENSDARG00000079281	1.727072545	4.05E-05
kiaa0907	ENSDARG00000035023	1.726755775	2.61E-05
ost4	ENSDARG00000096118	1.726352917	0.001496285
fahd1	ENSDARG00000031657	1.726167737	0.029469681
fam210a	ENSDARG00000040186	1.725847863	0.001914907
wu:fc75a09	ENSDARG00000089342	1.725476551	0.016769955
osr1	ENSDARG00000014091	1.725170135	4.39E-05
si:dkey-42i9.4	ENSDARG00000008049	1.724538188	1.90E-06
fam105bb	ENSDARG00000079886	1.724042807	0.00016864
enpep	ENSDARG00000057064	1.722666761	0.012523653
gpx8	ENSDARG00000013302	1.721940627	0.002421684
ppm1db	ENSDARG00000021380	1.721808222	4.71E-05
commd5	ENSDARG00000029660	1.721249284	0.003349879
c1qtnf9	ENSDARG00000058318	1.721085837	0.003008998
CNOT4 (2 of 2)	ENSDARG00000007045	1.720488699	1.61E-06
RBBP8NL	ENSDARG00000087032	1.719968624	0.002506398
rprma	ENSDARG00000053383	1.719802527	0.017072395
coro1a	ENSDARG00000054610	1.719484219	0.015004022
CABZ01115881.1	ENSDARG00000086539	1.719307006	0.000354435
manf	ENSDARG00000063177	1.719265048	0.018084833
polr3k	ENSDARG00000037835	1.718822357	0.005584171
dcun1d4	ENSDARG00000092394	1.718432544	1.06E-06
spata6l	ENSDARG00000004874	1.717870036	0.023649389
CU929230.1	ENSDARG00000030665	1.717608575	2.24E-06
ssbp4	ENSDARG00000056483	1.716780673	4.29E-08
twist3	ENSDARG00000019646	1.716770085	2.73E-05
cbx1a	ENSDARG00000004189	1.715878235	1.01E-07
tpcn1	ENSDARG00000062362	1.715498473	3.93E-05
pex13	ENSDARG00000071037	1.715349748	2.73E-05
pax1b	ENSDARG00000073814	1.71509607	0.013669548
cnga4	ENSDARG00000069383	1.714973663	0.042878116
rnf207b	ENSDARG00000012409	1.713686814	0.00113729
atxn2l	ENSDARG00000011597	1.713613866	3.71E-07
pfdn2	ENSDARG00000025391	1.713613161	0.001805627
mettl11b	ENSDARG00000042033	1.713502873	0.031008524
rab3gap2	ENSDARG00000044136	1.712749769	4.24E-07
birc5a	ENSDARG00000075621	1.712734037	0.00216766
hif1an	ENSDARG00000031915	1.712698057	6.11E-06
prdx1	ENSDARG00000058734	1.712643223	0.001619547
guf1	ENSDARG00000029088	1.711956019	0.000390127
csrp2bp	ENSDARG00000041708	1.711800806	2.95E-06
si:ch73-144m15.3	ENSDARG00000086971	1.711360004	0.044536309
BX088524.2	ENSDARG00000078974	1.711316746	0.012418517

tmed5	ENSDARG00000008765	1.711093061	0.001142071
MON1B (1 of 2)	ENSDARG00000077434	1.711013044	7.33E-05
CABZ01083442.1	ENSDARG00000091729	1.710965998	0.011492596
wibg	ENSDARG00000046024	1.710937249	0.000159135
ephx1	ENSDARG00000042854	1.710647583	0.003079958
DHRS4	ENSDARG00000021135	1.709675473	3.54E-06
zgc:77262	ENSDARG00000044545	1.70888516	1.28E-07
CABZ01073654.1	ENSDARG00000075190	1.708627599	0.001372132
grap2a	ENSDARG00000006468	1.708462401	0.043970038
sgms2	ENSDARG00000052520	1.708284769	0.003299895
gpr182	ENSDARG00000036616	1.708041643	0.007017069
lonp1	ENSDARG00000071674	1.707317891	0.000541221
trim13	ENSDARG00000010010	1.706963044	5.16E-06
aanat1	ENSDARG00000036567	1.706193906	0.013726739
tab3	ENSDARG00000062063	1.706070891	3.01E-06
panx3	ENSDARG00000004627	1.705621323	0.004918212
nasp	ENSDARG00000039208	1.705423072	0.003995559
TAF15	ENSDARG00000070019	1.70448416	1.37E-08
actr5	ENSDARG00000012995	1.704410038	0.001212375
trim35-28	ENSDARG00000021021	1.704286344	1.54E-06
wu:fb63a08	ENSDARG00000020994	1.704262075	0.008400095
PLCXD2	ENSDARG00000058200	1.703953827	0.024577944
gsr	ENSDARG00000019236	1.70375486	4.44E-07
serp1	ENSDARG00000025493	1.703381187	0.00064589
cdc26	ENSDARG00000077815	1.703242009	0.007927153
sox9b	ENSDARG00000043923	1.70205357	1.82E-06
ENDOU	ENSDARG00000044204	1.701825553	0.000547796
plcg2	ENSDARG00000068763	1.701576481	0.005618657
snx16	ENSDARG00000046072	1.701322823	0.000372426
ccna2	ENSDARG00000011094	1.700597371	0.006176069
uck11a	ENSDARG00000001686	1.698395965	0.005172411
mrpl35	ENSDARG00000070589	1.697959791	0.003582068
zfand1	ENSDARG00000009178	1.697528613	0.047717622
si:ch1073-13h15.3	ENSDARG00000052772	1.697481461	2.96E-06
CCDC180	ENSDARG00000032372	1.697444144	0.036304614
RPUSD2	ENSDARG00000060992	1.696097378	0.002987275
OMA1	ENSDARG00000090503	1.695120768	0.00399611
rbp2b	ENSDARG00000093774	1.694913805	0.000703604
ARMC10	ENSDARG00000062960	1.69476783	8.88E-05
slc6a11a	ENSDARG00000074002	1.69290902	0.005663963
efcab4a	ENSDARG00000053636	1.692756413	0.001064171
pgls	ENSDARG00000021233	1.692548823	0.001243181
NAIF1 (2 of 3)	ENSDARG00000053716	1.692215466	1.12E-05
ppil1	ENSDARG00000015422	1.691508742	0.001837349
bag4	ENSDARG00000043179	1.691350672	8.02E-05
tnfsf10	ENSDARG00000057241	1.691085858	4.04E-06
INPP5D	ENSDARG00000074283	1.690752182	0.015449818

fgf8a	ENSDARG00000003399	1.690169366	0.004892597
znf366	ENSDARG00000040116	1.689714866	0.048797472
trap1	ENSDARG00000089242	1.689108269	0.0029296
COMMD6	ENSDARG00000074204	1.688900353	0.020114423
p4hb	ENSDARG00000052589	1.688456945	0.007488391
	ENSDARG00000087773	1.688357758	2.84E-05
slc25a19	ENSDARG00000079990	1.688287756	0.003848301
sema4e	ENSDARG00000052997	1.687747454	9.70E-06
crp3	ENSDARG00000042613	1.687596103	5.47E-05
alpi.1	ENSDARG00000015273	1.687041785	0.000221279
naa40	ENSDARG00000090570	1.686559148	0.003156894
her2	ENSDARG00000038205	1.686517417	0.006770122
fxn	ENSDARG00000074356	1.686485635	0.024153185
papola	ENSDARG00000009585	1.686485238	4.44E-08
hinfp	ENSDARG00000004851	1.686429778	0.003899684
si:ch1073-404f17.2	ENSDARG00000095291	1.686124403	0.001069374
cxcr4b	ENSDARG00000041959	1.685966463	0.002898228
slc33a1	ENSDARG00000020085	1.685698532	7.62E-06
cox15	ENSDARG00000075933	1.685536057	1.02E-05
rpap3	ENSDARG00000025882	1.685331819	0.005836744
si:dkey-258f14.3	ENSDARG00000075974	1.684994638	0.047512037
lig3	ENSDARG00000052553	1.684787107	4.34E-06
mctp2a	ENSDARG00000001414	1.683839088	0.003131805
sco2	ENSDARG00000045555	1.683280313	0.011293267
RLTPR	ENSDARG00000056639	1.683245074	1.44E-07
si:ch211-214p16.1	ENSDARG00000044129	1.683000633	0.016895631
rdh1	ENSDARG00000017882	1.68291789	0.036028441
commd3	ENSDARG00000045402	1.682428433	0.002111075
si:ch211-14c17.6	ENSDARG00000095804	1.682132839	0.015639585
fzd5	ENSDARG00000025420	1.679476769	0.00028688
CU856173.1	ENSDARG00000091560	1.678677713	0.000567056
nmrk2	ENSDARG00000067848	1.677612318	7.62E-06
lpar2b	ENSDARG00000042561	1.676749607	6.87E-07
bloc1s1	ENSDARG00000014171	1.676274823	0.004134981
ankrd1b	ENSDARG00000076192	1.675913307	0.006551983
mrpl36	ENSDARG00000070607	1.675839775	0.004593136
hcfcl1a	ENSDARG00000015990	1.675759979	1.68E-07
DNLZ	ENSDARG00000068655	1.675700417	0.007587428
ndufaf4	ENSDARG00000077859	1.675063903	0.000953098
zgc:113385	ENSDARG00000058622	1.674594027	0.005353743
ido1	ENSDARG00000033594	1.672293482	0.015839332
gstp1	ENSDARG00000005039	1.672249457	3.35E-05
rgs7bpb	ENSDARG00000016742	1.670828489	0.000191371
tmem179	ENSDARG00000013292	1.670769624	0.000248166
nhp211a	ENSDARG00000069878	1.670693249	0.044189072
mppel	ENSDARG00000045416	1.670533051	0.0004361
l3mbtl1a	ENSDARG00000014828	1.670486443	9.36E-06

tdg	ENSDARG00000013004	1.670136184	9.89E-07
cx28.9	ENSDARG00000041797	1.669891238	0.000623656
zgc:172121	ENSDARG00000034430	1.668572029	0.013507922
si:dkey-207j16.9	ENSDARG00000095994	1.668255378	8.91E-05
slc25a36a	ENSDARG00000038731	1.668246914	6.55E-08
ggt1b	ENSDARG00000018342	1.667819889	0.002001647
hoxc12a	ENSDARG00000070352	1.667560886	0.000676167
ahsa1l	ENSDARG00000011127	1.667486229	0.000521418
rabl3	ENSDARG00000040959	1.66741409	0.004621915
aurka	ENSDARG00000012485	1.66713915	0.000174853
C2H5orf22	ENSDARG00000011723	1.667054517	0.01636282
rrp7a	ENSDARG00000044853	1.666977674	0.004548958
dbr1	ENSDARG00000056923	1.666659017	2.25E-05
dnaja3a	ENSDARG00000058494	1.666017644	6.99E-05
spon2b	ENSDARG00000002732	1.664383941	6.17E-05
zgc:165423	ENSDARG00000052905	1.663872136	1.83E-07
BX927064.1	ENSDARG00000089205	1.663666689	0.027950432
slc30a8	ENSDARG00000057629	1.663638276	0.007240611
si:dkey-237i9.8	ENSDARG00000086918	1.662851515	0.024454801
ociad2	ENSDARG00000052336	1.662376487	4.24E-05
grnas	ENSDARG00000091885	1.661725457	0.012103726
ERCC6L2	ENSDARG00000012403	1.660939258	0.00038614
ncbp2	ENSDARG00000014898	1.660094539	0.010356799
mrpl41	ENSDARG00000002264	1.659930499	0.000964291
si:ch1073-357b18.3	ENSDARG00000079888	1.659830201	0.043119257
dis3	ENSDARG00000060559	1.659748284	0.010202463
ITGB1BP2	ENSDARG00000030176	1.659495186	6.14E-05
mrps25	ENSDARG00000041306	1.658901363	2.47E-05
foxb1.1	ENSDARG00000053650	1.658631222	0.01142019
l3mbtl1	ENSDARG00000094801	1.658459061	0.004856841
cdc25	ENSDARG00000010792	1.658109993	0.000125884
polr2a	ENSDARG00000076177	1.658065953	8.50E-08
MTFMT	ENSDARG00000005448	1.657874007	0.000589976
pmpcb	ENSDARG00000016979	1.657817252	0.001613359
asb13a.2	ENSDARG00000045765	1.657790945	0.045448068
OCEL1	ENSDARG00000061800	1.657464889	0.042714931
PPFIBP1 (3 of 3)	ENSDARG00000045749	1.656529681	3.31E-06
srm	ENSDARG00000055760	1.655924475	6.49E-06
bysl	ENSDARG00000001057	1.654640563	1.71E-06
C21H5orf24 (2 of 2)	ENSDARG00000078202	1.654503628	9.10E-07
asah2	ENSDARG00000012829	1.653973257	0.014192038
dhrs1	ENSDARG00000054300	1.653757308	1.11E-06
snx30	ENSDARG00000069601	1.653243387	0.000294191
si:ch211-113p18.3	ENSDARG00000087835	1.652916185	0.002798682
CU041386.1	ENSDARG00000045823	1.651690383	0.004821327
znf346	ENSDARG00000060695	1.651350557	1.38E-06
dtd2	ENSDARG00000036775	1.65079853	0.031412002

wdr21	ENSDARG00000003197	1.650498267	0.00050662
and1	ENSDARG00000088514	1.649653455	0.000992044
tsfm	ENSDARG00000060748	1.649630339	0.005696556
hspd1	ENSDARG00000056160	1.649296338	0.017810138
hspa4a	ENSDARG00000004754	1.649083545	0.013727816
s100a11	ENSDARG00000093628	1.649043092	5.38E-05
mrpl45	ENSDARG00000044942	1.64876671	0.01304087
grn1	ENSDARG00000089362	1.648563385	0.039330599
nog2	ENSDARG00000043066	1.648401702	0.000665932
ompb	ENSDARG00000032380	1.648368805	0.03894648
si:dkey-15f23.1	ENSDARG00000096258	1.64815794	0.012353064
pias4a	ENSDARG00000007081	1.646771826	1.44E-06
echdc1	ENSDARG00000005959	1.646609662	0.043829518
ugt5c3	ENSDARG00000061439	1.646348931	0.002412041
fam86a	ENSDARG00000054950	1.646282826	0.017671023
SPINK4	ENSDARG00000091609	1.644748703	0.00410205
THAP6 (1 of 2)	ENSDARG00000056213	1.644638306	0.025863218
si:dkey-183n20.15	ENSDARG00000094265	1.644556306	0.015059103
PKHD1L1 (2 of 2)	ENSDARG00000040004	1.644299211	0.012453561
srsf1b	ENSDARG00000017843	1.644073116	1.34E-07
cldn11b	ENSDARG00000030723	1.644044836	0.000114155
cldn15a	ENSDARG00000036463	1.643569265	0.001028448
C5H12orf49	ENSDARG00000078315	1.64341924	0.000105509
pop4	ENSDARG00000003263	1.642750335	0.002803172
acads	ENSDARG00000030781	1.642449128	0.000104265
slc25a22	ENSDARG00000020893	1.642404403	8.60E-08
znf511	ENSDARG00000000760	1.642390476	0.024874854
zgc:103508	ENSDARG00000088755	1.642203086	0.007896007
eps8l1	ENSDARG00000057984	1.641552917	0.000329821
pdf	ENSDARG00000013950	1.641131768	0.004755525
elp3	ENSDARG00000042005	1.640819822	0.000184792
zgc:162816	ENSDARG00000070416	1.640765729	0.013249469
sdccag3	ENSDARG00000095515	1.640199378	0.000978645
mrps2	ENSDARG00000068635	1.639716804	0.000214723
foxl2	ENSDARG00000042180	1.639472024	0.04621487
SI:DKEY-78K22.2	ENSDARG00000092620	1.63936514	0.043102631
cutc	ENSDARG00000077306	1.638331978	0.004399859
CAMSAP3 (2 of 2)	ENSDARG00000091359	1.638052326	6.64E-06
dlx4b	ENSDARG00000071560	1.637867479	0.013523275
rgs9bp	ENSDARG00000009466	1.637610378	0.043951855
BX005001.1	ENSDARG00000061260	1.637582033	0.010957909
runx1t1	ENSDARG00000003680	1.637480805	5.27E-07
hey1	ENSDARG00000070538	1.636680886	1.26E-05
dub	ENSDARG00000059774	1.636573021	0.00062314
CELA1 (8 of 8)	ENSDARG00000077058	1.63605912	0.008899661
RNF152	ENSDARG00000087782	1.6359861	0.03970832
zgc:110333	ENSDARG00000040628	1.635308983	7.11E-06

vwde	ENSDARG00000077369	1.633871645	0.000152308
opr1l	ENSDARG00000071209	1.633604211	0.000175405
vti1b	ENSDARG00000039270	1.633391541	0.000518859
slc35b4	ENSDARG00000071087	1.633254377	0.003806314
cep135	ENSDARG00000002991	1.633099588	4.94E-05
CR855307.2	ENSDARG00000086245	1.63307018	0.023913937
dhrs1311	ENSDARG00000016713	1.632826026	0.028158546
slc13a3	ENSDARG00000069478	1.632128439	0.000323062
rhbdd2	ENSDARG00000092463	1.63200278	0.005999216
si:ch73-334d15.1	ENSDARG00000061672	1.631972501	0.001643554
mrpl9	ENSDARG00000063249	1.631621899	0.016829173
SMIM13	ENSDARG00000089204	1.631620498	0.003542718
ssu72	ENSDARG00000031216	1.630751805	0.000646555
zgc:172049	ENSDARG00000069409	1.630742706	0.001818803
CR925772.2	ENSDARG00000057504	1.630696965	0.035903895
zgc:136439	ENSDARG00000009267	1.63063639	0.0030482
ilf3a	ENSDARG00000058660	1.63050351	7.67E-07
exoc3l1	ENSDARG00000051899	1.63027035	0.000187445
jmjd6	ENSDARG00000034358	1.630048252	0.000163131
coch	ENSDARG00000024032	1.630017594	3.24E-05
MFAP4 (5 of 14)	ENSDARG00000089667	1.628885949	0.028968577
INTS5 (1 of 2)	ENSDARG00000077943	1.628837645	0.010733189
SLITRK3 (2 of 2)	ENSDARG00000074739	1.62751472	0.001110846
ppie	ENSDARG00000059270	1.627276894	0.01291321
CGREF1	ENSDARG00000075444	1.626590226	0.000475618
selrc1	ENSDARG00000019355	1.626518047	0.00034202
lrrc17	ENSDARG00000037960	1.626243212	0.005864419
si:ch211-229i10.4	ENSDARG00000088320	1.626155411	0.033349625
irx1a	ENSDARG00000009510	1.62597249	2.05E-05
slc22a18	ENSDARG00000052271	1.625176691	6.51E-06
hadh	ENSDARG00000030765	1.6249365	3.65E-05
CU462845.1	ENSDARG00000056045	1.624468529	0.000569285
carm1	ENSDARG00000018698	1.624168454	1.79E-06
timm8b	ENSDARG00000055708	1.623806003	0.014298385
ndufaf6	ENSDARG00000053652	1.623405439	0.014699936
ecsit	ENSDARG00000062834	1.623314561	0.000137736
tm9sf1	ENSDARG00000022970	1.62287387	0.000181666
adra2c	ENSDARG00000069669	1.62201087	0.015033284
cthl	ENSDARG00000032206	1.62164277	0.009331525
cel.1	ENSDARG00000017490	1.621243398	0.02506875
MEOX2 (2 of 2)	ENSDARG00000040911	1.620546289	0.0096093
cyp2k16	ENSDARG00000058458	1.620277059	0.006712451
asb12b	ENSDARG00000037558	1.620197674	0.027453392
pvalb2	ENSDARG00000002768	1.619888812	0.001795242
RBP1	ENSDARG00000038742	1.618621268	0.033089875
stk24a	ENSDARG00000031413	1.618365663	0.000394139
rcc2	ENSDARG00000011510	1.617968594	6.18E-07

TCF24	ENSDARG00000086944	1.61793228	0.000763074
myef2	ENSDARG00000059398	1.617846135	1.69E-06
gtf3c6	ENSDARG00000043301	1.617615798	0.027834527
SMIM4	ENSDARG00000089921	1.617259382	0.009066857
SIRT4	ENSDARG00000010415	1.617016877	0.001088971
triap1	ENSDARG00000014963	1.616011712	0.000974248
agxta	ENSDARG00000052099	1.615895199	5.59E-05
anln	ENSDARG00000060917	1.615775177	9.06E-06
	ENSDARG00000069916	1.615658837	0.00044705
DCTPP1	ENSDARG00000054334	1.615126996	0.010647673
bambib	ENSDARG00000056406	1.615114805	0.049966
znf259	ENSDARG00000043542	1.614107244	0.013567886
otub1b	ENSDARG00000011462	1.614079934	2.80E-05
si:ch211-245h7.2	ENSDARG00000093801	1.613520434	0.001259147
nolc1	ENSDARG00000024561	1.61325556	1.38E-06
pnisr	ENSDARG00000069855	1.612720646	2.57E-07
nubp2	ENSDARG00000055653	1.612623088	0.00052671
tagln	ENSDARG00000045408	1.612602579	3.06E-06
usp8	ENSDARG00000063719	1.612012361	6.16E-07
ankmy2a	ENSDARG00000005948	1.611990359	0.000343805
si:dkey-32e6.6	ENSDARG00000070857	1.611773555	0.002978326
C11H19orf25 (2 of 2)	ENSDARG00000091646	1.611370993	0.007686682
zgc:114130	ENSDARG00000040725	1.610806872	0.000447152
cbln1	ENSDARG00000057296	1.609890037	1.72E-05
wdr37	ENSDARG00000074611	1.609638467	1.26E-05
EIF4EB	ENSDARG00000013274	1.609354612	0.01455503
tamm41	ENSDARG00000040113	1.609004239	0.001412583
matn3b	ENSDARG00000069265	1.608883856	0.000255141
hlcs	ENSDARG00000039934	1.608843475	0.000260267
dync2i1	ENSDARG00000057635	1.608724271	0.013859025
edem2	ENSDARG00000028448	1.6084741	0.000288642
si:ch211-199o1.2	ENSDARG00000056210	1.608472168	0.043748188
tcf7l1a	ENSDARG00000038159	1.608036616	1.34E-05
fhl2b	ENSDARG00000003991	1.607879393	3.43E-05
EIF5	ENSDARG00000003681	1.607875702	4.45E-07
mrpl38	ENSDARG00000039667	1.607343595	1.32E-05
zcchc8	ENSDARG00000034982	1.607212397	7.76E-05
tmed3	ENSDARG00000028816	1.607035683	0.001882141
cd248a	ENSDARG00000079898	1.606650936	4.64E-06
KIF20A	ENSDARG00000044491	1.606601586	2.56E-05
metap1	ENSDARG00000033440	1.606413866	0.008383262
PPP4R1 (2 of 2)	ENSDARG00000087348	1.606273994	0.00037047
siva1	ENSDARG00000086639	1.606264525	0.038012556
LLPH	ENSDARG00000055360	1.606198223	0.01050828
zgc:174935	ENSDARG00000079255	1.605877498	0.001396776
ska1	ENSDARG00000039354	1.605767332	0.029971154
nabp1a	ENSDARG00000004692	1.605754658	0.00180393

aqp12	ENSDARG00000043279	1.605057987	3.10E-05
hoxb13a	ENSDARG00000056015	1.604626944	0.008676355
cbr1l	ENSDARG00000021149	1.604591694	0.011162676
golt1bb	ENSDARG00000059308	1.604445195	0.016161141
zgc:123295	ENSDARG00000056324	1.603995607	0.020871958
smarcc1a	ENSDARG00000017397	1.603927242	7.50E-07
zgc:113625	ENSDARG00000054160	1.603862102	0.043721814
PRDM12	ENSDARG00000007430	1.603708875	0.000489692
si:dkey-151g10.6	ENSDARG00000092807	1.603181565	0.002362862
tspan13b	ENSDARG00000070479	1.603117539	0.000421671
LIMD2	ENSDARG00000078092	1.602926448	0.011911808
wrap73	ENSDARG00000009557	1.602590362	0.00488153
allc	ENSDARG00000042562	1.60242766	0.003897172
tmem86b	ENSDARG00000038296	1.602023934	0.024189431
DHX29	ENSDARG00000040326	1.601525551	8.86E-05
comta	ENSDARG00000015337	1.601008477	5.67E-05
ptx3a	ENSDARG00000068275	1.600671765	6.96E-06
CTBP1	ENSDARG00000019213	1.600268022	6.87E-06
si:ch211-134n17.5	ENSDARG00000094105	1.600178003	0.034430547
CORT	ENSDARG00000070485	1.599989245	0.011428094
WDR61	ENSDARG00000007755	1.599806118	0.001601294
cox1l	ENSDARG00000061004	1.599752362	0.000432666
si:dkey-121j17.6	ENSDARG00000069661	1.599379673	0.017749446
zmym2	ENSDARG00000027353	1.598782	5.98E-06
si:ch211-76m11.5	ENSDARG00000092565	1.59870895	0.044329728
bmp2a	ENSDARG00000013409	1.598640577	0.004669026
fam89b	ENSDARG00000069106	1.5984034	0.000872667
BX470189.1	ENSDARG00000067658	1.597972981	0.006585011
chia.6	ENSDARG00000093193	1.597631212	0.001883486
atpif1a	ENSDARG00000067975	1.597375772	1.03E-05
pi4k2b	ENSDARG00000013881	1.597331013	0.000798267
calr	ENSDARG00000043276	1.596399467	0.016098542
bhlhe22	ENSDARG00000058039	1.596387063	1.38E-05
zgc:103681	ENSDARG00000042379	1.59616399	0.004741931
mex3b	ENSDARG00000058369	1.596064062	2.67E-06
ugt2a4	ENSDARG00000051940	1.595832968	7.57E-06
ugt1ab	ENSDARG00000006220	1.595819057	6.83E-07
GJD2 (1 of 2)	ENSDARG00000067999	1.595614633	0.000255816
rnasel3	ENSDARG00000036171	1.595598256	0.001176965
elovl7a	ENSDARG00000069279	1.595597012	6.86E-05
NPBWR2 (1 of 2)	ENSDARG00000033393	1.595246455	0.013969529
parla	ENSDARG00000039310	1.595234577	0.001523538
slc39a7	ENSDARG00000036388	1.594953703	0.00382155
dnajc22	ENSDARG00000037067	1.59495145	0.023383034
pmm2	ENSDARG00000037654	1.594313129	0.000459088
zzz3	ENSDARG00000077581	1.594283869	9.81E-06
nom1	ENSDARG00000060027	1.593467297	0.000473077

HMGXB4 (1 of 2)	ENSDARG00000075783	1.593435052	0.010953686
fzd2	ENSDARG00000054438	1.593431741	2.20E-06
fam96b	ENSDARG00000052010	1.593328674	0.00021284
fam83d	ENSDARG00000077883	1.592734605	0.002439436
pgrmc2	ENSDARG00000030237	1.592627807	6.94E-06
rnasen	ENSDARG00000055563	1.592289948	6.76E-05
PBRM1 (1 of 2)	ENSDARG00000003877	1.591931644	3.50E-05
SYPL1	ENSDARG00000077356	1.591867141	0.006281411
CABZ01038928.1	ENSDARG00000088119	1.591106362	4.86E-06
MTHFS	ENSDARG00000042465	1.590518057	0.006552811
fabp1b.1	ENSDARG00000059227	1.590177536	2.42E-05
yy1b	ENSDARG00000027978	1.589526866	1.59E-05
ELMSAN1 (2 of 2)	ENSDARG00000011445	1.589496632	0.000109274
pabpn1l	ENSDARG00000087996	1.589491749	0.03561808
rgma	ENSDARG00000012248	1.588159325	1.31E-06
six2b	ENSDARG00000054878	1.588141443	0.009171645
alg8	ENSDARG00000044627	1.587631819	0.005629599
zgc:158345	ENSDARG00000086578	1.587630987	0.014175837
erp44	ENSDARG00000019008	1.587428889	0.000259787
TRPM6	ENSDARG00000087272	1.587294235	0.018661254
MOV10L1	ENSDARG00000059037	1.58721717	0.00586848
lingo2	ENSDARG00000069970	1.586740446	0.000481503
LYAR	ENSDARG00000032505	1.586648557	0.000768729
rplp2	ENSDARG00000022833	1.586571328	0.009253081
ca7	ENSDARG00000045139	1.586558935	0.033472554
zgc:162161	ENSDARG00000079571	1.586310253	0.01221452
use1	ENSDARG00000007250	1.585809473	0.000885172
nek2	ENSDARG00000005619	1.585800734	0.019629898
cdkn2aipnl	ENSDARG00000053395	1.585799811	0.010781085
aspscr1	ENSDARG00000089727	1.585769058	0.005436413
bmpr1bb	ENSDARG00000075729	1.585359041	0.0372142
ndufs5	ENSDARG00000006290	1.585293958	0.001763325
wu:fk11d03	ENSDARG00000024598	1.584821382	4.72E-05
si:dkey-24111.2	ENSDARG00000093800	1.584689099	0.000738997
lnpep	ENSDARG00000014403	1.584210418	0.000173215
mrps14	ENSDARG00000068305	1.584137597	0.000292511
VDAC3 (3 of 3)	ENSDARG00000073775	1.583770207	0.014706459
MEP1B (1 of 2)	ENSDARG00000040683	1.583450358	0.014756532
opa3	ENSDARG00000061761	1.58336655	0.012634665
pdzd3a	ENSDARG00000040568	1.583352786	0.004862785
mrps7	ENSDARG00000042077	1.582689274	0.007381669
mrps11	ENSDARG00000075129	1.582680057	0.000319866
zc3hc1	ENSDARG00000062651	1.582673687	0.04114949
fuom	ENSDARG00000039422	1.582567397	0.028780563
her15.1	ENSDARG00000054562	1.582354496	0.001143022
agr2	ENSDARG00000070480	1.582287359	0.004924043
pitpnbl	ENSDARG00000015310	1.582138918	6.01E-06

ostf1	ENSDARG00000086835	1.581841731	0.001649964
spryd4	ENSDARG00000023309	1.581551644	0.020848012
sephs1	ENSDARG00000058292	1.581217938	0.000293677
chid1	ENSDARG00000069673	1.581129158	0.000706605
anxa1b	ENSDARG00000014594	1.580693843	8.33E-05
gtf2a1	ENSDARG00000011000	1.580094021	1.16E-05
dynll2b	ENSDARG00000005172	1.579493242	3.91E-05
supt16h	ENSDARG00000079949	1.579204484	0.00511732
CR388231.3	ENSDARG00000088835	1.579202763	8.49E-06
itpkb	ENSDARG00000010059	1.578815842	0.00017899
si:ch211-199c19.4	ENSDARG00000095991	1.578383672	0.026132635
si:ch211-207d6.2	ENSDARG00000031658	1.578281119	0.000211625
mrp63	ENSDARG00000007285	1.578193872	0.00812161
prkcbp11	ENSDARG00000011932	1.578163778	3.21E-05
nos2b	ENSDARG00000031976	1.578105598	0.046081719
CELA1 (7 of 8)	ENSDARG00000043168	1.577670578	0.043419491
fzd7a	ENSDARG00000060004	1.577514513	3.22E-06
orc3	ENSDARG00000008805	1.577431641	0.014372802
nat10	ENSDARG00000054259	1.577364566	3.41E-05
ppp1r14ba	ENSDARG00000044541	1.577100424	1.54E-05
FAM3C (2 of 2)	ENSDARG00000045824	1.576929317	0.021636863
ddx10	ENSDARG00000061865	1.576876419	0.005066395
aagab	ENSDARG00000041170	1.576864158	0.012534559
cars2	ENSDARG00000078546	1.576572366	0.001721904
si:dkeyp-117b11.2	ENSDARG00000076419	1.576531474	0.00201382
mrc1b	ENSDARG00000038822	1.576520056	0.008316642
si:dkey-119m7.4	ENSDARG00000071049	1.576105892	0.00028991
kctd4	ENSDARG00000068691	1.575491117	0.000237798
hira	ENSDARG00000013434	1.575444733	0.004083201
trpm1b	ENSDARG00000061399	1.574799153	0.000652968
b3gntl1	ENSDARG00000043431	1.574307094	0.040943369
MRPL18	ENSDARG00000060199	1.574234667	0.006412034
nucks1b	ENSDARG00000012777	1.574114052	4.94E-06
smfn	ENSDARG00000009806	1.574087424	0.028557447
C9H2orf49	ENSDARG00000042025	1.573993089	0.001248537
sid4	ENSDARG00000034273	1.573934018	1.91E-05
zgc:162948	ENSDARG00000053695	1.573850398	0.009925379
KCNJ15	ENSDARG00000058988	1.573267875	0.022810692
krt1-19d	ENSDARG00000023082	1.572860246	2.29E-06
arid1ab	ENSDARG00000060073	1.57264263	2.09E-06
zgc:158387	ENSDARG00000033364	1.57244331	0.008968618
ppm1nb	ENSDARG00000057032	1.5724357	0.003450714
ppp1r14aa	ENSDARG00000011239	1.572200047	0.003346622
BTBD17 (1 of 2)	ENSDARG00000077868	1.571419699	0.000330363
myc11a	ENSDARG0000006003	1.571307881	0.000516764
NAGPA	ENSDARG00000075149	1.571240166	0.00683714
mtif3	ENSDARG00000039649	1.571052938	0.000531222

trnt1	ENSDARG00000075297	1.571016528	0.000420588
dcp2	ENSDARG00000039016	1.570975019	0.000333756
slc5a1	ENSDARG00000013871	1.570947161	0.040342099
zgc:161969	ENSDARG00000041359	1.570810919	4.38E-05
ppp1r3ca	ENSDARG00000071005	1.570686364	0.00237645
CABZ01088927.1	ENSDARG00000063691	1.570479072	0.00202935
uqcc	ENSDARG00000068176	1.570426828	4.76E-05
cldn17	ENSDARG00000092338	1.570340568	1.65E-05
si:dkeyp-79f4.1	ENSDARG00000094023	1.570274088	0.016088753
smyd2a	ENSDARG00000055151	1.569871918	2.57E-05
ddrgk1	ENSDARG00000075690	1.569497438	0.006486204
gata5	ENSDARG00000017821	1.568977834	0.000208356
cbll1	ENSDARG00000015222	1.568972959	0.001247799
drg1	ENSDARG00000039345	1.568795954	0.000948337
alg12	ENSDARG00000041199	1.568452376	0.001122533
hoxc4a	ENSDARG00000070338	1.568296931	0.001503823
ISCA2	ENSDARG00000038154	1.567543956	0.003117581
ssbp3b	ENSDARG00000030155	1.567457793	1.04E-05
cbx3a	ENSDARG00000003860	1.56738303	0.000961046
mrps5	ENSDARG00000062209	1.566826417	0.000115256
aprt	ENSDARG00000003519	1.566298992	0.000671445
parp12a	ENSDARG00000042496	1.56621693	0.004461352
fzd6	ENSDARG00000042731	1.566027424	0.001309369
zgc:92518	ENSDARG00000016343	1.565767456	0.00998601
stxbp6l	ENSDARG00000028354	1.56574101	0.005744752
CT573433.2	ENSDARG00000087979	1.565676694	0.009795052
ethe1	ENSDARG00000005713	1.56472144	0.000538974
gas1a	ENSDARG00000077298	1.564556303	1.15E-05
tal2	ENSDARG00000042041	1.564491705	0.00863663
zgc:101130	ENSDARG00000003102	1.564324605	0.000475897
dhcr7	ENSDARG00000015564	1.564107258	0.009048999
atxn2	ENSDARG00000052897	1.564047318	4.08E-05
CHORDC1 (1 of 2)	ENSDARG00000003973	1.563902586	0.014063305
serpina7	ENSDARG00000087143	1.563593582	0.030468024
PTGDS (3 of 3)	ENSDARG00000071626	1.563055353	5.82E-06
aqp8a.1	ENSDARG00000045141	1.562419249	6.29E-05
wrb	ENSDARG00000074271	1.562380626	0.000341182
bub3	ENSDARG00000075883	1.56137699	0.004429287
si:ch211-165d12.4	ENSDARG00000079353	1.561133124	0.011047949
cant1b	ENSDARG00000016398	1.561038736	3.61E-05
GATC	ENSDARG00000056855	1.560656152	0.022355159
diexf	ENSDARG00000017696	1.56048362	0.001160505
soul5	ENSDARG00000075015	1.560417238	1.55E-05
FAM117B (1 of 2)	ENSDARG00000009839	1.560169126	0.002012355
cpa5	ENSDARG00000021339	1.559860121	1.93E-05
gsto2	ENSDARG00000033285	1.559795445	0.001980468
fam175a	ENSDARG00000043339	1.559739662	0.005753608

ttc36	ENSDARG00000011693	1.559702825	0.007421674
hcfc2	ENSDARG00000058127	1.559426904	0.002793779
C8H22orf39	ENSDARG00000092360	1.558616739	0.006410645
si:dkeyp-82a1.6	ENSDARG00000094336	1.558510613	0.020367504
TMEM254	ENSDARG00000025538	1.558456804	0.001790168
trap1	ENSDARG00000024317	1.55808041	0.006292143
si:ch211-288g17.4	ENSDARG00000070960	1.557485364	0.00185128
GPA33 (1 of 2)	ENSDARG00000040543	1.557464543	1.33E-05
synpo2b	ENSDARG00000077157	1.557102473	9.94E-05
diabloa	ENSDARG00000035323	1.557088737	1.62E-05
zgc:194839	ENSDARG00000078550	1.556705976	0.018558941
clcnk	ENSDARG00000022560	1.556631538	0.017609828
cx30.3	ENSDARG00000042707	1.556570158	4.46E-05
mlec	ENSDARG00000059630	1.556508391	0.000292981
samd11	ENSDARG00000077852	1.556283407	0.000635882
bcl7a	ENSDARG00000052907	1.556117523	3.49E-05
abcb11a	ENSDARG00000011573	1.555718475	0.004278837
dcun1d1	ENSDARG00000037371	1.55513084	0.000243922
irf5	ENSDARG00000045681	1.554618315	0.004565833
spata511	ENSDARG00000061763	1.554461741	0.003783517
si:dkey-30k6.5	ENSDARG00000057238	1.554433884	0.007084138
fah	ENSDARG00000039743	1.554287436	5.60E-05
mrpl48	ENSDARG00000035167	1.554269517	0.001000456
ddx59	ENSDARG00000022177	1.553957565	0.003173545
eed	ENSDARG00000040548	1.553595506	0.03712283
lrrc4.2	ENSDARG00000003020	1.553552166	0.002074113
eci1	ENSDARG00000018002	1.553095165	0.003857182
mocs2	ENSDARG00000077202	1.553087817	0.001465256
zc3h18	ENSDARG00000062506	1.553052336	2.55E-05
NDUFA3	ENSDARG00000041400	1.55295954	0.00037042
commd4	ENSDARG00000061946	1.552395146	0.044817485
cryba1a	ENSDARG00000041141	1.551948505	0.030083597
ARMC5	ENSDARG00000078083	1.551876465	0.002330709
zgc:101663	ENSDARG00000037852	1.551725798	0.001039861
trim44	ENSDARG00000051761	1.551635812	0.000320342
carm11	ENSDARG00000091531	1.551597816	0.045073323
MDGA1 (2 of 2)	ENSDARG00000090361	1.551397547	0.003251434
si:ch211-86h15.3	ENSDARG00000093627	1.551259289	0.025699748
si:dkey-219c3.2	ENSDARG00000075805	1.551246228	0.001098798
esd	ENSDARG00000019496	1.550613137	0.005084906
hn11	ENSDARG00000034427	1.550410969	9.91E-06
CT955967.1	ENSDARG00000078133	1.550409577	1.16E-05
par1	ENSDARG00000067544	1.550256623	0.04815558
cdh10	ENSDARG00000055843	1.549518594	0.002195109
selenbp1	ENSDARG00000024717	1.549312835	0.01099153
armc11	ENSDARG00000020887	1.54888082	0.003537801
serhl	ENSDARG00000032340	1.548799477	0.036046446

crfb2	ENSDARG00000040332	1.548495869	0.038718114
DNAJC13 (2 of 2)	ENSDARG00000090243	1.548444005	0.01078995
ANKRD40	ENSDARG00000076490	1.548400711	0.000163599
vbp1	ENSDARG00000030241	1.548104172	0.001090509
rbb4l	ENSDARG00000015208	1.547808591	6.29E-05
GTSE1	ENSDARG00000013719	1.547541567	0.00140615
nudcd2	ENSDARG00000078059	1.547113986	0.002684602
gfod2	ENSDARG00000061145	1.546776316	0.000393482
rbm15b	ENSDARG00000078966	1.546328244	0.000116388
atpaf2	ENSDARG00000056270	1.546324549	0.001180049
wu:fb17g07	ENSDARG00000068432	1.546074935	4.34E-06
pdzrn3b	ENSDARG00000073869	1.546008937	6.64E-05
uap1l1	ENSDARG00000013082	1.545606366	0.000603237
surf1	ENSDARG00000003592	1.545573942	0.001899656
ugt5b4	ENSDARG00000057612	1.545540582	2.05E-05
mk11b	ENSDARG00000076229	1.545513878	2.25E-05
cratb	ENSDARG00000010382	1.545326683	0.001450888
commd7	ENSDARG00000036784	1.545300487	0.030124194
il13ra2	ENSDARG00000039436	1.545113996	0.006189559
zgc:112001	ENSDARG00000078034	1.545047199	0.002724216
thoc5	ENSDARG00000038290	1.544926225	0.000216254
APBA3	ENSDARG00000090675	1.544904156	0.003686218
htatip2	ENSDARG00000028386	1.544795931	0.005224927
HHIPL2	ENSDARG00000060008	1.544373952	0.004144639
ube2g1a	ENSDARG00000015292	1.544158925	5.04E-05
mybphb	ENSDARG00000003081	1.543859512	0.0010208
dnal4b	ENSDARG00000088841	1.543809926	0.039672111
tmem88b	ENSDARG00000069388	1.543735735	0.006926284
mrps18c	ENSDARG00000069624	1.543302175	0.021808518
ppm1g	ENSDARG00000075559	1.543100148	1.59E-05
PHKA1 (1 of 2)	ENSDARG00000030749	1.542733977	0.000353903
SMG9	ENSDARG00000076627	1.542732726	0.001903722
klhl36	ENSDARG00000030251	1.542320012	0.028951454
mrps6	ENSDARG00000039543	1.54206436	0.000572592
MTERFD2	ENSDARG00000079124	1.541869846	0.010562809
mcm6	ENSDARG00000057683	1.541752491	4.39E-05
fzd10	ENSDARG00000068213	1.541587933	0.000235204
eif2s1a	ENSDARG00000005827	1.54132744	3.98E-05
her9	ENSDARG00000056438	1.541121032	8.12E-05
prkrip1	ENSDARG00000033126	1.54077351	0.004505258
actc1b	ENSDARG00000037840	1.540701862	2.54E-06
mrpl15	ENSDARG00000041338	1.540607179	0.001037635
zgc:65772	ENSDARG00000086411	1.540401218	0.000718002
rrp36	ENSDARG00000032516	1.539733772	0.008253484
acot11b	ENSDARG00000042122	1.539504066	0.003308385
u2af2a	ENSDARG00000012505	1.539482989	0.002743142
pparaa	ENSDARG00000031777	1.539049499	0.007009694

SSTR5	ENSDARG00000042081	1.538780319	0.001356301
tspan13a	ENSDARG00000068883	1.538689138	0.000921731
BX005234.1	ENSDARG00000091572	1.538668252	0.003251641
cpb1	ENSDARG00000045442	1.538228574	0.024341321
rexo1	ENSDARG00000026986	1.538080082	0.001347243
dao.2	ENSDARG00000035603	1.538069922	0.016253034
mettl3	ENSDARG00000012827	1.537809676	0.007335814
CR942805.1	ENSDARG00000075067	1.537689464	0.015161048
zdhhc4	ENSDARG00000045159	1.53762759	0.010444854
CR385054.1	ENSDARG00000075760	1.537497619	0.000889826
dync1li2	ENSDARG00000035924	1.53721931	1.62E-05
cenpi	ENSDARG00000052565	1.537078111	0.004180588
cmlc1	ENSDARG00000032976	1.537024119	0.007213886
AL954696.1	ENSDARG00000078442	1.536922547	0.001671054
si:ch211-56a11.2	ENSDARG00000093677	1.536638118	0.027816584
gbgt1l4	ENSDARG00000068503	1.536487592	0.000427214
CABZ01088930.1	ENSDARG00000088884	1.536372237	3.48E-05
brdt	ENSDARG00000020076	1.536129409	2.48E-05
cep63	ENSDARG00000056862	1.535513258	0.010415983
tm2d1	ENSDARG00000057042	1.535430335	0.004600254
NCBP1 (1 of 2)	ENSDARG00000086907	1.534892655	0.000570476
ndufb5	ENSDARG00000070824	1.534835942	0.002177951
prosc	ENSDARG00000060288	1.534340645	2.21E-05
MCAT (2 of 2)	ENSDARG00000096473	1.533771198	0.009190706
wdr33	ENSDARG00000018272	1.533663514	2.61E-05
chrac1	ENSDARG00000042337	1.533441952	0.001383081
rnf170	ENSDARG00000028476	1.533236858	0.034562999
upb1	ENSDARG00000011521	1.532753342	0.012050892
gadd45gip1	ENSDARG00000039338	1.532749251	0.002079564
zgc:153662	ENSDARG00000042559	1.53220154	0.001218226
TLDC1	ENSDARG00000062951	1.531768477	0.00520683
wdr85	ENSDARG00000062083	1.531643773	0.002258592
srsf9	ENSDARG00000008097	1.531640083	5.68E-05
sft2d1	ENSDARG00000007362	1.531638579	0.002628169
si:dkey-24111.3	ENSDARG00000068140	1.531551078	0.00013291
cenpe	ENSDARG00000063385	1.531460057	3.57E-05
EIF2B1	ENSDARG00000091402	1.5313387	0.006813129
sc:d808	ENSDARG00000075092	1.531041111	0.033448779
tpgb	ENSDARG00000037186	1.530991355	0.006808138
psmg3	ENSDARG00000030897	1.530497876	0.011230836
ints9	ENSDARG00000067913	1.530214146	0.005429681
aldh16a1	ENSDARG00000037935	1.530108247	0.019969815
polr3glb	ENSDARG00000013734	1.529965549	0.000815926
si:dkey-166k9.2	ENSDARG00000092980	1.529863784	0.00246692
ERO1LB	ENSDARG00000030004	1.529720011	0.000281957
SLC39A8 (1 of 2)	ENSDARG00000056757	1.529633023	0.024057305
si:dkey-11e23.4	ENSDARG00000042510	1.529385477	0.003149478

si:dkey-7e14.7	ENSDARG00000078132	1.528844015	0.022626938
FAM126B (2 of 3)	ENSDARG00000094758	1.528760349	0.006883148
srsf1a	ENSDARG00000057691	1.528663968	7.74E-06
ints10	ENSDARG00000043031	1.528658743	0.001694792
galnt10	ENSDARG00000042778	1.528169943	0.000191051
nup85	ENSDARG00000046061	1.527914031	0.006145276
ccdc129	ENSDARG00000086805	1.527871421	0.010632956
myog	ENSDARG00000009438	1.527842336	0.030295972
thyn1	ENSDARG00000042659	1.527257887	0.042610787
clk2a	ENSDARG00000062954	1.527152672	6.96E-05
PROZ (1 of 2)	ENSDARG00000076900	1.527108641	0.011357163
HSPA4L	ENSDARG00000053544	1.52664731	6.68E-05
cox6a1	ENSDARG00000022438	1.526622953	0.000686883
	ENSDARG00000058100	1.526318487	0.009858921
EIF4A2	ENSDARG00000016477	1.526069059	0.003500694
hdhd2	ENSDARG00000024728	1.525939455	0.029432027
FP015916.1	ENSDARG00000081363	1.525884099	0.002267706
mcm5	ENSDARG00000019507	1.525665423	0.004904634
kctd12.2	ENSDARG00000053542	1.525552325	0.000483039
	ENSDARG00000045298	1.524892009	0.000268253
TFPT	ENSDARG00000089572	1.524664029	0.035010544
TRIP10 (2 of 2)	ENSDARG00000077953	1.5245501	0.049407167
PPP2R2A	ENSDARG00000006624	1.524429421	9.20E-05
si:ch73-389k6.1	ENSDARG00000043812	1.524196423	0.000635933
MRPS35	ENSDARG00000038456	1.524113219	0.000671387
CELA1 (3 of 8)	ENSDARG00000092890	1.524090376	0.006493584
EPHB3A	ENSDARG00000031548	1.523734318	4.49E-05
MRPL54	ENSDARG00000071468	1.523634062	0.02205937
PHGDH	ENSDARG00000001873	1.523589565	0.003246747
PPP1R2	ENSDARG00000054007	1.523501916	0.000765853
SEC11A	ENSDARG00000008936	1.523212752	0.000250284
IRX2A	ENSDARG00000001785	1.523163416	0.000305963
FABP6	ENSDARG00000044566	1.52285598	3.24E-05
SPS2	ENSDARG00000017659	1.522777179	3.04E-05
ENDOG	ENSDARG00000058865	1.522504672	0.003516394
PVALB9	ENSDARG00000071601	1.522494444	0.004723718
TRPA1A	ENSDARG00000016699	1.522468294	0.000388217
TCF7L1B	ENSDARG00000007369	1.522458529	9.99E-05
CNOT11	ENSDARG00000068596	1.522384493	0.000452022
ZNF207A	ENSDARG00000015538	1.522306199	6.96E-05
SSRP1A	ENSDARG00000037397	1.522094191	0.001724833
YLP1	ENSDARG00000043680	1.521909713	3.31E-05
CX32.3	ENSDARG00000041787	1.521908351	0.000897231
MRPS30	ENSDARG00000075326	1.52178537	0.004534662
APOL1	ENSDARG00000007425	1.521717689	0.005255578
CU207301.4	ENSDARG00000061282	1.521419813	9.49E-06
si:dkeyp-73d8.8	ENSDARG00000094045	1.52141734	0.036768761

idua	ENSDARG00000062904	1.521164708	0.0088778
bmp3	ENSDARG00000060526	1.521117913	0.000663384
RBM6	ENSDARG00000077060	1.520857922	5.04E-05
dbh	ENSDARG00000069446	1.520407194	0.019063501
GPR52	ENSDARG00000093460	1.520209384	0.027520074
FP016199.1	ENSDARG00000074570	1.5200821	0.022285342
aspscr1	ENSDARG00000090657	1.51999872	0.005130563
eif4g3b	ENSDARG00000074331	1.519768976	7.44E-05
nthl1	ENSDARG00000042881	1.51931797	0.009979128
fkbp4	ENSDARG00000008447	1.519298871	0.000713007
zfpm1	ENSDARG00000041572	1.519295782	0.001112808
hspe1	ENSDARG00000056167	1.519028247	0.034201222
si:ch73-52f15.5	ENSDARG00000095400	1.519012563	0.002579646
UBE2S	ENSDARG00000031775	1.518254531	8.09E-05
sod1	ENSDARG00000043848	1.518224347	0.007683801
opn1sw2	ENSDARG00000017274	1.518220244	8.94E-05
tmem33	ENSDARG00000041332	1.517937191	9.29E-05
tsen34	ENSDARG00000061370	1.517404177	0.005794104
rgp1	ENSDARG00000006545	1.51707864	0.002741758
timm13	ENSDARG00000058297	1.516882996	0.045587699
smg8	ENSDARG00000061378	1.516808412	0.001103991
uqcrq	ENSDARG00000029064	1.51674549	0.023113072
nudc	ENSDARG00000008052	1.516691531	0.002139641
olig2	ENSDARG00000040946	1.516690033	0.004088296
larsb	ENSDARG00000019280	1.516643965	0.000121028
mcmbp	ENSDARG00000055314	1.5162696	0.006628048
phactr4b	ENSDARG00000032221	1.516253391	0.000113749
kif2c	ENSDARG00000076228	1.51624418	0.002236969
pigm	ENSDARG00000024277	1.515977512	0.010926637
pih1d1	ENSDARG00000037955	1.515874926	0.024075948
fscn1a	ENSDARG00000059680	1.515753942	1.10E-05
CABZ01003826.1	ENSDARG00000086627	1.51537084	0.007730471
mpped2	ENSDARG00000034443	1.514924657	0.001004595
rbp4	ENSDARG00000077505	1.514592052	0.005432008
prkri	ENSDARG00000017874	1.514517719	0.024078401
cyp2x7	ENSDARG00000044002	1.514023534	0.014273176
lman1	ENSDARG00000069980	1.513927888	0.008208476
med4	ENSDARG00000041503	1.513560088	0.010110105
stx2b	ENSDARG00000068217	1.513541378	0.001259016
tctn1	ENSDARG00000078447	1.513309999	0.039232216
ABCF3	ENSDARG00000089705	1.513260423	0.038071959
rargb	ENSDARG00000054003	1.512943122	6.52E-06
epo	ENSDARG00000055163	1.512926949	0.028208058
dhdds	ENSDARG00000039851	1.512852275	0.014477125
si:ch211-266d19.4	ENSDARG00000012642	1.512449512	0.000374096
SMARCAD1 (2 of 2)	ENSDARG00000073721	1.51239198	0.000355307
si:ch211-131k2.3	ENSDARG00000079462	1.512324901	0.015502949

RNF208	ENSDARG00000078056	1.512164188	0.002311977
spopla	ENSDARG00000010563	1.51205187	0.001101168
MAD2L1BP	ENSDARG00000020039	1.511812862	0.031771608
fkbp8	ENSDARG00000001734	1.51172073	0.000247586
DHX30	ENSDARG00000077839	1.510970144	0.001603155
THOP1	ENSDARG00000013776	1.510793949	0.000299657
zgc:86725	ENSDARG00000079111	1.510701441	0.008938253
her4.2	ENSDARG00000056729	1.510657635	0.005889211
adrb3a	ENSDARG00000053646	1.510437721	0.009217342
gata2a	ENSDARG00000059327	1.510126894	0.000368255
ugp2b	ENSDARG00000008200	1.509748734	3.37E-05
nxfl	ENSDARG00000055076	1.509492011	2.60E-05
rpl18a	ENSDARG00000025073	1.509080065	0.0049728
eif2b2	ENSDARG00000041397	1.509025408	0.023743424
capn2b	ENSDARG00000055592	1.50858288	6.77E-05
tbc1d15	ENSDARG00000057218	1.508428955	0.010040297
si:dkey-51e6.1	ENSDARG00000042133	1.507218959	0.011392998
asxl1	ENSDARG00000036956	1.506588077	1.98E-05
skiv2l2	ENSDARG00000013457	1.506333582	0.000240054
MRPS12 (2 of 2)	ENSDARG00000089095	1.506173154	0.010042064
CABZ01049057.1	ENSDARG00000091784	1.50610412	0.003556479
ireb2	ENSDARG00000021466	1.505991217	0.000387453
pgam2	ENSDARG00000057571	1.505698953	0.026227792
puf60b	ENSDARG00000001241	1.505376805	3.72E-05
si:ch211-106h4.12	ENSDARG00000092920	1.505210481	0.010558845
si:ch211-173n18.3	ENSDARG00000028478	1.505107759	0.027184691
skiv2l	ENSDARG00000062206	1.504954409	0.002327794
mif	ENSDARG00000071336	1.504330722	0.007602834
si:ch211-198n5.11	ENSDARG00000054400	1.50413795	0.001355262
ehmt1b	ENSDARG00000026634	1.503612371	4.25E-05
wu:fb30e12	ENSDARG00000053800	1.503505556	0.000485488
INTU	ENSDARG00000077639	1.503423092	0.004291525
gpr19	ENSDARG00000041125	1.503105247	0.004387407
taf3	ENSDARG00000045513	1.502750376	9.60E-05
poldip2	ENSDARG00000092305	1.502661858	0.002248127
zgc:110339	ENSDARG00000046030	1.50265889	7.19E-05
dbx1b	ENSDARG00000001859	1.502560338	0.048035952
zic1	ENSDARG00000015567	1.502483821	5.23E-05
hoxd10a	ENSDARG00000057859	1.502142275	0.004132413
fgf4	ENSDARG00000068095	1.501891426	0.030067854
CCDC115	ENSDARG00000033533	1.501069912	0.020148042
lpar2a	ENSDARG00000042338	1.501041799	0.008524827
tspan12	ENSDARG00000032389	1.501012659	0.001742572
zic6	ENSDARG00000071496	1.500577903	0.042811223