

Supplementary Table 4. Up-regulated genes in 4 dpf *glut12* morphant larvae

Gene	Gene Id	Fold Change	p-value
si:dkeyp-87e3.1	ENSDARG00000093888	75.00392424	2.13E-15
CR759879.1	ENSDARG00000088069	34.26875662	7.47E-05
si:dkeyp-75b4.9	ENSDARG00000015678	27.52167052	1.13E-06
zgc:114174	ENSDARG00000057884	24.98040446	1.75E-14
BX005073.1	ENSDARG00000088089	20.47804396	0.005765654
si:ch211-263p13.7	ENSDARG00000077622	19.21440536	0.020073022
hbbe3	ENSDARG00000038147	17.5998267	0.000328813
isg15	ENSDARG00000086374	14.16569072	0.047937577
CU302326.1	ENSDARG00000040828	14.03072141	0.001646074
zgc:173552	ENSDARG00000091770	13.96613715	0.045034105
BX005472.1	ENSDARG00000087133	12.62441087	0.003481477
si:ch211-163b2.2	ENSDARG00000092243	11.64840196	4.23E-07
CR450686.2	ENSDARG00000089692	11.37964867	0.014588024
si:dkey-19a16.1	ENSDARG00000093852	10.10987446	0.018995282
REG1A	ENSDARG00000079043	9.946161048	0.022392938
scn4bb	ENSDARG00000093246	9.627976266	0.017857939
tgfbr1b	ENSDARG00000042259	9.582470301	1.43E-12
CR450686.1	ENSDARG00000077415	9.475822185	0.007411167
si:dkey-169i5.4	ENSDARG00000077862	8.955342766	2.28E-09
si:dkey-14p11.4	ENSDARG00000094787	8.477212543	0.000775894
si:dkey-149m13.1	ENSDARG00000096127	8.350628215	0.000158806
ankrd52a	ENSDARG00000036826	8.306403317	0.003656865
CU459012.3	ENSDARG00000079151	7.537941171	0.001708874
si:rp71-17i16.7	ENSDARG00000093223	7.367070088	0.018204383
CR848664.2	ENSDARG00000069603	7.363419513	0.000232804
ARHGEF17 (2 of 2)	ENSDARG00000091766	7.237539598	4.06E-08
svilb	ENSDARG00000088405	7.136523777	0.008245725
si:dkeyp-86f5.1	ENSDARG00000040200	7.09850775	0.029404263
CR547131.2	ENSDARG00000071143	7.093667051	0.026867594
TMEM74B	ENSDARG00000078868	6.899898801	0.001355946
zgc:165656	ENSDARG00000096566	6.679157346	0.003110867
CABZ01048020.1	ENSDARG00000087561	6.374828633	0.012360487
CHD6	ENSDARG00000017244	6.258092322	0.000795326
acp5a	ENSDARG00000019763	6.061067991	0.000117384
mast4	ENSDARG00000078270	5.887986276	0.00020267
kif1c	ENSDARG00000054448	5.874238085	1.03E-05
si:ch211-261n11.9	ENSDARG00000093392	5.873646877	0.003035708
CABZ01048021.1	ENSDARG00000088302	5.862211327	9.33E-08
si:dkey-29n19.3	ENSDARG00000092440	5.771111233	0.000532514
DTX4 (2 of 2)	ENSDARG00000078016	5.261801335	0.013354183
fam169aa	ENSDARG00000059719	5.259350984	0.008000163

si:dkey-217f16.3	ENSDARG00000052873	5.221415323	1.80E-08
FP236606.1	ENSDARG00000088606	5.217630584	0.019006842
si:ch211-131e11.14	ENSDARG00000052582	5.186244138	0.010806475
zzef1	ENSDARG00000094380	5.159416565	2.92E-05
si:ch211-141e20.2	ENSDARG00000093349	4.938614315	9.78E-08
CR385054.2	ENSDARG00000090805	4.935910508	0.002928855
col6a3	ENSDARG00000095915	4.913371252	2.03E-05
megf8	ENSDARG00000091856	4.889333633	1.14E-05
CABZ01079057.1	ENSDARG00000091173	4.770904756	0.001214725
plaua	ENSDARG00000039145	4.763162188	1.91E-06
si:dkey-103k4.2	ENSDARG00000092252	4.752404868	6.41E-05
si:dkeyp-101e12.1	ENSDARG00000089794	4.696413614	0.007382127
GPR116 (5 of 6)	ENSDARG00000040194	4.684554213	0.004473623
CABZ01072338.1	ENSDARG00000062513	4.681226253	1.62E-08
per3	ENSDARG00000010519	4.638721385	0.000360344
si:dkey-266h18.3	ENSDARG00000060202	4.580199513	4.42E-09
si:ch211-258l4.4	ENSDARG00000070885	4.567171077	0.043327022
CT485993.2	ENSDARG00000036569	4.517928082	0.029489144
pcdh2ab3	ENSDARG00000087974	4.517366574	0.000599099
si:dkey-30j22.1	ENSDARG00000042829	4.492259679	0.005508512
si:dkey-172m14.2	ENSDARG00000067664	4.489988003	0.006181022
CABZ01075689.1	ENSDARG00000088660	4.480948812	1.74E-05
pcdh2aa15	ENSDARG00000087958	4.462955109	0.001988953
si:dkey-103k4.5	ENSDARG00000093501	4.461398262	0.037194191
pcdh2aa1	ENSDARG00000037695	4.456223454	0.042352564
si:dkey-31e10.5	ENSDARG00000067992	4.394111768	0.039726763
elmod3	ENSDARG00000074742	4.394095737	0.007131867
CABZ01086041.1	ENSDARG00000019442	4.38982975	0.00011926
si:ch73-27e22.8	ENSDARG00000091269	4.383672885	5.18E-05
si:ch211-81a5.2	ENSDARG00000094631	4.37929355	0.004601821
si:dkey-9p24.5	ENSDARG00000094330	4.351596428	0.017407837
GJC1	ENSDARG00000077563	4.278927245	0.006101206
si:dkey-10f21.16	ENSDARG00000092159	4.254099703	0.04595325
tmem86a	ENSDARG00000044034	4.201168324	0.00995353
map2k7	ENSDARG00000008279	4.183398333	1.65E-06
CR790363.2	ENSDARG00000093476	4.156321114	0.005970926
MAP6 (2 of 2)	ENSDARG00000074073	4.151809258	3.50E-09
SPTBN4 (2 of 3)	ENSDARG00000092624	4.140327189	0.000301537
CABZ01083440.1	ENSDARG00000090535	4.11799703	0.008038993
DNAJC14	ENSDARG00000091478	4.100539129	0.017776717
CABZ01088238.1	ENSDARG00000073728	4.094497678	0.035851713
FUT9	ENSDARG00000016460	4.065085735	0.013281234
colm	ENSDARG00000061576	4.064834773	0.000480626
SPTBN1 (2 of 2)	ENSDARG00000036402	4.047047069	1.52E-08

slc6a17	ENSDARG00000068787	4.033265375	0.002291366
aqp4	ENSDARG00000010565	4.029700749	0.005726782
zgc:171679	ENSDARG00000071024	3.985007546	9.13E-15
sobpa	ENSDARG00000054253	3.969599308	7.98E-05
igf2bp1	ENSDARG00000061478	3.963285087	2.85E-06
rorcb	ENSDARG00000017780	3.960779265	5.95E-05
NUGGC (1 of 4)	ENSDARG00000091951	3.959288641	0.000112017
PEA15	ENSDARG00000079771	3.94219379	0.000224133
map3k10	ENSDARG00000055672	3.937042931	0.002245681
kank2	ENSDARG00000018393	3.923258102	0.000775022
CU633981.2	ENSDARG00000091177	3.906808416	0.032455918
cyp2ae1	ENSDARG00000013524	3.89546187	0.002557567
AL929558.2	ENSDARG00000087121	3.886753274	0.009400249
tenc1a	ENSDARG00000076292	3.870558067	0.000211843
prdm1b	ENSDARG00000078168	3.86864356	2.47E-07
BX548021.2	ENSDARG00000086060	3.858649065	0.001965894
CABZ01027547.1	ENSDARG00000076638	3.858475444	5.46E-05
mmd2b	ENSDARG00000089090	3.852980634	0.021433274
syt15	ENSDARG00000062135	3.84572541	0.002786459
TSPAN17	ENSDARG00000053183	3.828902905	0.035594124
uhrf1bp1	ENSDARG00000077011	3.81952709	1.11E-09
si:dkey-203c4.2	ENSDARG00000093890	3.794842759	0.045029891
CR751224.2	ENSDARG00000087398	3.783346857	0.000226362
CABZ01059291.1	ENSDARG00000091254	3.752917947	0.036132482
st6galnac4	ENSDARG00000043897	3.725316328	0.007979914
CABZ01079258.1	ENSDARG00000091137	3.715992284	0.009121958
si:ch73-286h23.4	ENSDARG00000090193	3.706975526	0.047482472
CU855896.2	ENSDARG00000077023	3.702597275	0.000188329
pcdh2ab8	ENSDARG00000089874	3.691454929	0.000988778
pum2	ENSDARG00000061040	3.689714312	9.92E-06
MTUS2 (2 of 2)	ENSDARG00000074984	3.687369517	0.032364038
PXN (3 of 3)	ENSDARG00000060766	3.685623551	1.82E-05
HIVEP2 (2 of 2)	ENSDARG00000018773	3.675794617	0.004169552
abhd2a	ENSDARG00000025797	3.658909276	0.008173234
si:ch73-374a13.1	ENSDARG00000094998	3.62204565	0.00319459
mchr1b	ENSDARG00000022525	3.609380722	6.68E-09
CABZ01084569.1	ENSDARG00000036619	3.591012163	4.05E-05
pcdh2ab5	ENSDARG00000090348	3.586148074	0.002946541
CABZ01078921.1	ENSDARG00000089596	3.583873237	0.001664016
HDAC5	ENSDARG00000075139	3.582360365	0.001716217
csf2rb	ENSDARG00000076586	3.571677138	0.009374413
pygo1	ENSDARG00000044963	3.569288582	0.018346548
kcnma1b	ENSDARG00000060237	3.568902244	0.00106246
prune	ENSDARG00000076246	3.54338674	0.000224452

CABZ01075275.1	ENSDARG00000089198	3.524228821	0.000159882
sv2c	ENSDARG00000059997	3.521430138	0.00921595
si:ch211-179i5.6	ENSDARG00000096080	3.521035593	0.046903201
TEP1	ENSDARG00000038713	3.519832069	6.71E-06
si:ch211-153j24.3	ENSDARG00000068428	3.497553316	0.001558828
RPS6KA5	ENSDARG00000060551	3.472205708	0.004797059
zgc:113278	ENSDARG00000037813	3.470776655	0.00120948
CR391963.2	ENSDARG00000052056	3.470254697	0.030805323
AL929558.3	ENSDARG00000087698	3.452896999	0.038277205
usp46	ENSDARG00000045343	3.44832081	0.030217653
mapk8ip2	ENSDARG00000063157	3.444555564	0.012535399
CSRNP3	ENSDARG00000079741	3.410252487	0.024131525
rhobtb2a	ENSDARG00000016868	3.396845134	1.15E-05
si:dkey-103k4.3	ENSDARG00000094550	3.396296633	0.013831233
drl	ENSDARG00000078004	3.393141046	0.005139864
si:ch211-165b19.8	ENSDARG00000093990	3.383450797	0.04907888
dolk	ENSDARG00000076991	3.367193943	0.011315317
CR847851.3	ENSDARG00000088053	3.364263703	0.0411696
chico	ENSDARG00000019588	3.354645616	8.75E-10
BX510316.3	ENSDARG00000090777	3.352752811	0.027235154
ubtd1b	ENSDARG00000079623	3.346627234	0.000148388
tfe3b	ENSDARG00000019457	3.341696556	0.009450805
si:dkey-114d20.2	ENSDARG00000092192	3.338591424	0.011957817
BX248496.1	ENSDARG00000088811	3.337816853	0.049318952
SNORD47	ENSDARG00000086382	3.32420926	0.020009932
KCNA3	ENSDARG00000079491	3.316917724	0.005740825
usp34	ENSDARG00000037734	3.314422979	1.05E-06
GRIN2B (1 of 2)	ENSDARG00000079348	3.308878366	4.50E-05
si:ch211-207c6.5	ENSDARG00000093054	3.291958019	1.31E-06
zc3h12b	ENSDARG00000062463	3.276536855	5.01E-05
si:ch73-115f13.1	ENSDARG00000096641	3.261700887	0.002339961
chst12a	ENSDARG00000028786	3.249767269	0.000220816
ssh1a	ENSDARG00000056780	3.248591429	0.000128844
BX323064.1	ENSDARG00000079059	3.238417334	0.00077887
CABZ01063789.1	ENSDARG00000091068	3.237879547	0.043890614
CR847851.4	ENSDARG00000088136	3.233209651	0.04679733
mmp24	ENSDARG00000018896	3.231856637	0.000971192
si:ch211-134d5.3	ENSDARG00000094847	3.231164201	0.010714642
CR376794.1	ENSDARG00000063715	3.221106157	1.39E-05
lzts2b	ENSDARG00000077207	3.204443145	6.26E-05
mafk	ENSDARG00000033709	3.189341734	0.027651753
pcsk9	ENSDARG00000074185	3.160998636	0.002069646
vtg7	ENSDARG00000092419	3.149830682	0.009103532
si:ch211-71k24.5	ENSDARG00000077656	3.147124601	0.001184763

FAT4	ENSDARG00000045665	3.133534639	1.48E-11
FRMPD1 (6 of 6)	ENSDARG00000091264	3.108528101	0.014635745
si:dkey-19a16.13	ENSDARG00000071651	3.106760936	0.001495392
si:ch211-188c16.4	ENSDARG00000094248	3.102799687	0.01071324
BX640518.1	ENSDARG00000058565	3.102280356	0.004014849
AL953907.2	ENSDARG00000070510	3.098328417	0.002751311
map1aa	ENSDARG00000059601	3.079000845	0.002681866
CABZ01080224.1	ENSDARG00000089035	3.063072214	0.001142125
klf12b	ENSDARG00000032197	3.059831657	3.94E-05
pcdh2ab10	ENSDARG00000088724	3.052923587	0.042354617
CT573476.1	ENSDARG00000077915	3.03610623	0.04415558
DMXL2 (2 of 2)	ENSDARG00000061570	3.031544651	0.000478362
ADAMTS15	ENSDARG00000058252	3.021269414	0.048154105
adora2ab	ENSDARG00000058488	3.015544605	0.008670029
ANO8	ENSDARG00000077229	3.012614655	0.012502693
zeb1a	ENSDARG00000016788	3.008563771	0.024644685
si:ch1073-181h11.4	ENSDARG00000086016	3.007960624	0.009606186
si:dkeyp-82a1.5	ENSDARG00000087740	3.000901695	0.000150775
pcdh2ab6	ENSDARG00000091043	2.992675289	0.010550035
CEP170B (1 of 2)	ENSDARG00000078327	2.989326002	7.61E-05
KLHL30	ENSDARG00000076094	2.985152232	0.002938383
rxrab	ENSDARG00000035127	2.984518151	0.004592447
ube3b	ENSDARG00000061960	2.978110972	0.006051751
si:ch211-236p5.3	ENSDARG00000086418	2.977918752	0.00139599
si:dkey-283b15.3	ENSDARG00000089435	2.968867197	0.000200184
fgfr3	ENSDARG00000004782	2.967115961	3.11E-06
zgc:171490	ENSDARG00000071643	2.961918512	0.000132461
ANKFN1 (2 of 2)	ENSDARG00000060941	2.959407208	0.000855691
fam101a	ENSDARG00000023484	2.958868234	0.000196551
GREB1L	ENSDARG00000092038	2.953155975	0.008020047
TOM1L2 (1 of 2)	ENSDARG00000056394	2.910247071	3.29E-05
sema4ga	ENSDARG00000076595	2.902935335	0.001004617
arf3b	ENSDARG00000036998	2.889896637	0.011282712
SV2A	ENSDARG00000059945	2.882059892	0.0028
LUZP1	ENSDARG00000075556	2.873602455	5.50E-05
abhd8	ENSDARG00000079719	2.873199128	0.016960941
osbpl2a	ENSDARG00000053804	2.866719054	0.00312695
tfr1a	ENSDARG00000058784	2.86602549	0.000740285
CR847851.6	ENSDARG00000088669	2.84952785	0.014055821
pcdh2ab9	ENSDARG00000090748	2.848123717	0.035025273
si:ch211-213a13.5	ENSDARG00000071618	2.843174451	0.003779013
snx13	ENSDARG00000013828	2.841242703	0.003432366
tmx4	ENSDARG00000053942	2.83206087	7.87E-05
PIK3CA (1 of 2)	ENSDARG00000075456	2.832007215	0.003317589

pcdh2ab2	ENSDARG00000037691	2.829336457	0.032102073
DDO (1 of 2)	ENSDARG00000074891	2.828308761	0.029559951
ism2	ENSDARG00000053859	2.827215679	0.008585314
kcnal	ENSDARG00000062942	2.810634714	0.002939377
MGA (1 of 2)	ENSDARG00000086287	2.809449882	0.000172349
GFOD1	ENSDARG00000061363	2.808924012	0.000436269
si:ch211-117m22.2	ENSDARG00000092179	2.807592142	0.022611497
CABZ01048349.1	ENSDARG00000091302	2.801065993	0.009017576
BX571715.2	ENSDARG00000091498	2.79857639	0.001205078
si:ch211-222g5.6	ENSDARG00000092598	2.793404473	0.016548957
rgl2	ENSDARG00000007727	2.78816044	0.001589996
il6st	ENSDARG00000030498	2.782168513	0.003620843
CABZ01024201.1	ENSDARG00000078775	2.776387743	0.000522471
hecw2a	ENSDARG00000062447	2.774244478	0.002103299
adora2b	ENSDARG00000002533	2.774138577	0.003242486
atp10a	ENSDARG00000061039	2.772749686	0.003089087
CABZ01081294.1	ENSDARG00000089006	2.772133555	0.00697427
BIN1 (1 of 2)	ENSDARG00000042114	2.757502377	0.034969603
BX649453.2	ENSDARG00000089941	2.752521435	0.048898366
CRTC1 (1 of 2)	ENSDARG00000076068	2.750973719	0.010377576
mapk8b	ENSDARG00000009870	2.749284404	0.000409968
TTBK2 (1 of 2)	ENSDARG00000005670	2.743897402	3.16E-05
RC3H1 (1 of 2)	ENSDARG00000063182	2.743678427	0.002085516
KCNJ10 (1 of 2)	ENSDARG00000090815	2.742238512	0.006393632
mtus2	ENSDARG00000062347	2.741945771	0.000640301
CARD9	ENSDARG00000086871	2.73393971	0.000628216
PCDH9	ENSDARG00000063264	2.72773188	0.006245393
rora	ENSDARG00000031768	2.724871934	0.015817849
tldr6	ENSDARG00000070052	2.723491249	0.016561916
MCOLN1 (1 of 2)	ENSDARG00000058848	2.717928695	0.000281355
MYO9B	ENSDARG00000078313	2.713543303	5.03E-05
slc27a4	ENSDARG00000017047	2.705543072	0.011807822
CT971495.1	ENSDARG00000071709	2.699001806	0.023183722
mecp2	ENSDARG00000014218	2.697997485	0.003839675
epas1b	ENSDARG00000057671	2.694649136	0.037008945
	ENSDARG00000075024	2.693157455	0.000365815
si:ch211-213a13.2	ENSDARG00000093024	2.684654675	0.018072561
SIPA1	ENSDARG00000076697	2.683707143	8.77E-05
pgap1	ENSDARG00000062465	2.680769298	0.001874608
vgl2a	ENSDARG00000041706	2.680278262	0.022277302
si:ch211-117i10.10	ENSDARG00000096256	2.679579564	0.039011451
CU694197.1	ENSDARG00000088952	2.674804097	0.018709883
pcdh2g20	ENSDARG00000089195	2.66958328	0.011442405
scn8ab	ENSDARG00000018032	2.659499902	0.000284824

ddx6	ENSDARG00000061338	2.654568671	0.030030282
pik3r2	ENSDARG00000018060	2.649377585	6.62E-06
si:ch211-236p5.2	ENSDARG00000086256	2.635583311	0.000692894
man2a1	ENSDARG00000059669	2.634311717	4.09E-06
ncoa1	ENSDARG00000018257	2.630544624	0.000887
stat5.1	ENSDARG00000019392	2.627573595	8.22E-06
slc17a6a	ENSDARG00000001127	2.625763829	0.010862874
mri1	ENSDARG00000075754	2.621036904	0.000273218
kif13ba	ENSDARG00000079731	2.609023854	3.34E-05
lingo1a	ENSDARG00000034165	2.607946892	0.001698067
tln2	ENSDARG00000017901	2.600783761	3.34E-05
LRRK1 (1 of 2)	ENSDARG00000089483	2.596924857	0.001442267
	ENSDARG00000054373	2.59368382	0.045457071
tet3	ENSDARG00000062646	2.592722726	9.51E-06
F2RL2 (1 of 2)	ENSDARG00000079472	2.592603921	0.011927892
rorb	ENSDARG00000033498	2.590235613	2.29E-05
	ENSDARG00000089696	2.589379245	0.0228276
BX005175.2	ENSDARG00000088801	2.589155526	1.94E-05
SOGA2	ENSDARG00000091408	2.588616474	0.00581552
nad1l.1	ENSDARG00000015025	2.588117625	0.001352644
btbd7	ENSDARG00000003069	2.587372376	0.000219974
APH1A	ENSDARG00000052668	2.586373745	0.003413993
cthl	ENSDARG00000032206	2.578567989	3.29E-05
mxdl	ENSDARG00000032039	2.573137556	0.007949961
mark1	ENSDARG00000055343	2.572467784	0.006168864
si:dkey-176f19.6	ENSDARG00000094926	2.568070099	0.036561639
ano6	ENSDARG00000061544	2.558484562	0.002846201
znf384l	ENSDARG00000001015	2.557467187	0.000801225
tmem125b	ENSDARG00000093357	2.556858833	0.004242568
cacnalc	ENSDARG00000008398	2.55675799	0.010324813
CU570976.1	ENSDARG00000059473	2.555619271	0.001621584
CABZ01054405.2	ENSDARG00000089635	2.555056838	0.012174572
unc5db	ENSDARG00000061541	2.555002418	0.013038382
slc6a5	ENSDARG00000067964	2.546916472	0.00173214
SYNGAP1 (1 of 2)	ENSDARG00000063713	2.545360145	0.001951779
fndc7	ENSDARG00000077096	2.539772833	0.002928908
BX004816.2	ENSDARG00000056461	2.538911563	0.034814268
nos1	ENSDARG00000068910	2.532794664	0.004559284
CU302376.1	ENSDARG00000086027	2.532209757	0.000228415
chd5	ENSDARG00000078965	2.531752251	0.007708327
CCDC120 (1 of 2)	ENSDARG00000012449	2.531710827	0.010844392
scn4ba	ENSDARG00000062416	2.524410629	0.000463784
wu:fc75a09	ENSDARG00000089342	2.522498843	0.000679365
LRRK8A (2 of 2)	ENSDARG00000052155	2.521866901	7.25E-05

im:7151068	ENSDARG00000089862	2.51866309	0.013146737
	ENSDARG00000037904	2.510471478	0.004592299
si:dkeyp-106c3.3	ENSDARG00000093159	2.509143721	0.024087944
dnm1a	ENSDARG00000010042	2.508742009	0.003550043
kif5bb	ENSDARG00000075251	2.507487181	0.007113575
hipk2	ENSDARG00000042518	2.506053175	0.000195562
FAM196B	ENSDARG00000086049	2.504637865	0.03116692
slc7a1	ENSDARG00000016439	2.503306424	0.000933521
si:dkey-229p15.2	ENSDARG00000063594	2.501678832	7.51E-06
DPYSL2 (1 of 2)	ENSDARG00000038974	2.495626376	0.009547498
neur1a	ENSDARG00000069438	2.492277554	0.007424824
dtncbb	ENSDARG00000013020	2.490016541	0.004147763
zgc:195075	ENSDARG00000060049	2.489566939	0.014116417
CT573264.3	ENSDARG00000078339	2.489411226	0.021617782
si:ch73-387e10.3	ENSDARG00000078095	2.48534232	0.028416528
chd3	ENSDARG00000021405	2.484077279	0.001276152
NETO2 (2 of 2)	ENSDARG00000063293	2.477362075	0.00199539
npffr2.1	ENSDARG00000033635	2.477087887	0.004393909
NOD1	ENSDARG00000036308	2.475146895	0.013863303
slc6a5	ENSDARG00000015880	2.474628536	0.000360881
LRP3	ENSDARG00000008485	2.469482253	3.67E-05
SBNO2 (3 of 3)	ENSDARG00000094178	2.466673174	0.027483672
crebrf	ENSDARG00000078581	2.465759882	0.018140241
pcbp3	ENSDARG00000054378	2.465067281	0.001946688
BX005008.1	ENSDARG00000024890	2.460523555	0.046259108
CU693440.1	ENSDARG00000058701	2.458267828	0.003472414
CBFA2T3	ENSDARG00000079012	2.455838438	0.001259729
dab1b	ENSDARG00000003290	2.453537115	6.47E-05
kif1ab	ENSDARG00000062024	2.448752451	0.004372339
nfasca	ENSDARG00000061099	2.447789144	0.006979334
SYDE1	ENSDARG00000077440	2.447698746	1.47E-06
mmp16b	ENSDARG00000058876	2.446980699	0.000511775
avpr2ab	ENSDARG00000029219	2.446686137	0.024178768
si:ch211-221g5.2	ENSDARG00000095646	2.444204239	0.000113895
tbc1d9	ENSDARG00000059900	2.443462904	0.001314106
nova2	ENSDARG00000017673	2.442888082	0.000482891
si:ch211-183d21.1	ENSDARG00000092499	2.441726154	0.00013617
gpr12	ENSDARG00000062934	2.433764505	0.011854958
PSD (1 of 2)	ENSDARG00000076702	2.431498241	0.021375531
RPH3A (1 of 2)	ENSDARG00000076712	2.429611335	0.010916206
trpv6	ENSDARG00000014496	2.428442623	8.03E-11
UNC80	ENSDARG00000079480	2.428279918	0.002841117
vav3a	ENSDARG00000086623	2.42486716	0.027349333
nt5dc3	ENSDARG00000062949	2.41899315	0.027913049

	ENSDARG00000087018	2.412665113	0.032670735
txnrd2	ENSDARG00000094470	2.411784282	0.03765401
SLC16A5 (2 of 2)	ENSDARG00000030472	2.411671166	0.01556664
fgd1	ENSDARG00000017473	2.405185224	0.000220026
timm17b	ENSDARG00000060124	2.403754286	0.009378465
XRG5	ENSDARG00000057155	2.40187341	0.040290804
CABZ01041804.1	ENSDARG00000071488	2.400984631	0.007564911
CABZ01069042.1	ENSDARG00000088996	2.400955006	0.035403593
trim35-36	ENSDARG00000032169	2.400202896	0.047323297
si:dkey-175m17.7	ENSDARG00000078317	2.399503232	0.010593266
CABZ01109624.1	ENSDARG00000075546	2.395172463	0.03290879
tll1	ENSDARG00000037429	2.39285942	0.00387558
si:ch211-13o20.3	ENSDARG00000091871	2.392188416	6.60E-15
	ENSDARG00000087470	2.390780114	0.007040672
si:dkey-147f3.4	ENSDARG00000071029	2.390000637	0.001133686
mlxip	ENSDARG00000059474	2.387528256	0.010251283
zeb2b	ENSDARG00000078416	2.387342579	0.001809758
acol	ENSDARG00000026376	2.38012591	0.005374229
ripk1l	ENSDARG00000006677	2.372773947	0.004849177
	ENSDARG00000067562	2.368218522	0.00868589
FBXO10 (1 of 2)	ENSDARG00000061936	2.367907732	0.026682946
rcc1	ENSDARG00000037158	2.364668478	1.14E-10
aff4	ENSDARG00000001857	2.363708542	0.000683692
plekhh1	ENSDARG00000053835	2.362034244	0.001803297
ISM2 (1 of 2)	ENSDARG00000089691	2.361496697	0.012263383
scamp5	ENSDARG00000018743	2.360535037	0.006021783
eif2c3b	ENSDARG00000063079	2.359248681	0.017367205
CABZ01079551.1	ENSDARG00000053572	2.358180557	0.002881284
ptprdb	ENSDARG00000019945	2.355302788	0.008506238
BX088715.1	ENSDARG00000086761	2.35157628	0.013815931
cep104	ENSDARG00000060361	2.350089318	0.001359797
PCDH20	ENSDARG00000036424	2.349312612	0.004517625
SRGAP3	ENSDARG00000060309	2.3468425	0.01304506
CR678040.1	ENSDARG00000063007	2.346706354	0.001142454
CABZ01078919.1	ENSDARG00000086671	2.345003965	0.000186186
dock4b	ENSDARG00000024874	2.3413354	0.000121147
SI:CH1073-167A23.1	ENSDARG00000094420	2.340642064	0.047526153
MB21D2	ENSDARG00000077316	2.338888896	0.002622453
cpla2	ENSDARG00000024546	2.337968955	0.022927114
fer	ENSDARG00000012196	2.334805291	0.01655632
cdc42ep2	ENSDARG00000053959	2.334605898	0.000463507
gata4	ENSDARG00000035759	2.329164156	0.01938189
GRAMD2 (2 of 2)	ENSDARG00000089322	2.327255193	0.027100433
march2	ENSDARG00000061738	2.325738146	0.013705798

PLEKHG1	ENSDARG00000063484	2.325197762	3.30E-06
GRAMD1B	ENSDARG00000074258	2.321342238	0.001938979
gad1a	ENSDARG00000093411	2.320902913	0.003086689
adcyp1r1a	ENSDARG00000029989	2.316699508	0.007764033
nckap5l	ENSDARG00000079148	2.316634445	0.003449799
IQUB	ENSDARG00000061899	2.314968379	0.022540607
si:ch211-194e1.7	ENSDARG00000096449	2.313380081	0.045911778
GGA3 (1 of 2)	ENSDARG00000058987	2.310521881	0.002997766
C23H20orf112 (1 of 2)	ENSDARG00000037607	2.309416479	0.000229448
CABZ01103858.1	ENSDARG00000089996	2.307071591	0.003262423
mink1	ENSDARG00000035360	2.303413027	8.83E-05
BX004830.1	ENSDARG00000076332	2.30254937	0.026770916
pcdh2g7	ENSDARG00000071890	2.300035397	0.034393984
epha4b	ENSDARG00000011600	2.299359621	5.97E-08
egln2	ENSDARG00000062562	2.299127436	0.008707919
HECW2 (1 of 2)	ENSDARG00000063253	2.299095226	2.71E-05
lyst	ENSDARG00000008575	2.297020286	0.001847229
mtf1	ENSDARG00000090180	2.294945805	0.037046419
elnb	ENSDARG00000069017	2.293284011	0.000364231
PLEKHM3	ENSDARG00000030633	2.292320022	0.009098967
UNKL	ENSDARG00000037838	2.291914175	0.002036017
NHSL2	ENSDARG00000089066	2.291023839	1.54E-08
si:dkey-261j4.3	ENSDARG00000035151	2.290189607	0.040135318
pdk2	ENSDARG00000059054	2.285703487	0.012836321
fam105ba	ENSDARG00000073931	2.279072237	0.000980724
PLXNA2	ENSDARG00000060372	2.278944415	0.014285392
aspa	ENSDARG00000005154	2.278581629	0.031202935
slc4a10b	ENSDARG00000060303	2.27622623	0.002108807
LRFN5 (1 of 2)	ENSDARG00000071230	2.275934221	0.013667928
MAGIX (1 of 2)	ENSDARG00000025108	2.275579028	0.002705142
si:dkey-240h12.4	ENSDARG00000034210	2.274931579	0.024259318
BRSK1 (1 of 2)	ENSDARG00000077124	2.272020994	0.000263959
TENM3	ENSDARG00000087599	2.270971397	2.11E-06
CR925880.1	ENSDARG00000079994	2.269774353	2.45E-06
arntl2	ENSDARG00000041381	2.268669758	1.65E-06
pdk3a	ENSDARG00000014527	2.268552483	0.000646863
MAP1B	ENSDARG00000060434	2.267267632	0.025543408
smc1a	ENSDARG00000055754	2.264437952	0.011122348
	ENSDARG00000061928	2.264225429	0.03115185
zgc:113295	ENSDARG00000074768	2.262398824	0.008845171
tead1b	ENSDARG00000059483	2.261713846	0.017838669
diaph2	ENSDARG00000076060	2.25575771	0.001158454
rc3h2	ENSDARG00000063050	2.253439947	0.00769069
nlg4b	ENSDARG00000077761	2.244953707	0.006713714

cacna1aa	ENSDARG00000037905	2.242003893	0.007171258
bcl2l11	ENSDARG00000079144	2.239099967	0.033876666
iffo1a	ENSDARG00000062976	2.238215608	0.002345736
oprk1	ENSDARG00000006894	2.237658208	0.036917973
adam15	ENSDARG00000089213	2.237624229	0.000330865
HEPHL1 (4 of 4)	ENSDARG00000026403	2.236528336	0.035273394
scai	ENSDARG00000060865	2.232993037	0.04138766
scn2b	ENSDARG00000041176	2.231641494	0.003444099
rab9b	ENSDARG00000062576	2.228447901	0.007479565
DIP2B (2 of 2)	ENSDARG00000016348	2.225207244	2.73E-06
slc6a15	ENSDARG00000062821	2.225162521	0.002155246
CLPB	ENSDARG00000088463	2.224204098	0.007233949
ZC3H8	ENSDARG00000075165	2.222471516	0.018868237
pou2f2b	ENSDARG00000019658	2.222323552	6.81E-05
igfl1ra	ENSDARG00000027423	2.221306904	0.001673468
si:ch211-254o16.1	ENSDARG00000095064	2.216420567	0.032969095
STRN	ENSDARG00000060595	2.215486309	0.022860193
trim2a	ENSDARG00000031817	2.213760615	0.001455544
BBX	ENSDARG00000012699	2.213128006	0.046904894
BX470154.1	ENSDARG00000077028	2.212954284	0.022811787
TIAM1 (1 of 2)	ENSDARG00000025920	2.211411362	5.64E-06
slc25a38a	ENSDARG00000059805	2.208260773	0.046081023
RSF1 (1 of 3)	ENSDARG00000093503	2.206772617	0.035325391
cyp3a65	ENSDARG00000045627	2.204885716	0.048866266
FMN1 (2 of 3)	ENSDARG00000088133	2.203088556	0.013632945
si:ch73-27e22.1	ENSDARG00000058759	2.199428019	0.021569712
slc12a7a	ENSDARG00000073756	2.198405401	0.013325394
camta2	ENSDARG00000092799	2.198007796	0.002036682
mark4a	ENSDARG00000023914	2.196922671	0.005048612
dctn1b	ENSDARG00000056753	2.194318756	0.001813006
tmem163a	ENSDARG00000079858	2.193276162	0.0039318
sdc3	ENSDARG00000088962	2.190690708	0.000744992
celsr3	ENSDARG00000055825	2.188554689	0.002392977
MMP15 (1 of 2)	ENSDARG00000013072	2.188401764	0.000907513
EPHB3 (1 of 2)	ENSDARG00000033589	2.188117753	0.014809148
BICD2 (2 of 2)	ENSDARG00000075571	2.188111359	0.002487334
zgc:163061	ENSDARG00000076766	2.186797465	0.028458717
si:dkeyp-113d7.10	ENSDARG00000092359	2.185224105	0.008592745
KCNH7 (2 of 2)	ENSDARG00000062687	2.183636086	0.005502784
scn4bb	ENSDARG00000060319	2.180845281	0.038259202
camkk1	ENSDARG00000035452	2.180822963	0.016936908
CASKIN1 (3 of 3)	ENSDARG00000096052	2.179302811	0.037943562
abhd6a	ENSDARG00000060756	2.176725704	0.003492295
hmga2	ENSDARG00000069912	2.176406457	0.004920364

stat6	ENSDARG00000015902	2.174736894	4.72E-05
TSPAN5 (3 of 3)	ENSDARG00000070449	2.174672578	0.016491237
CNTNAP1	ENSDARG00000074524	2.165666465	0.003538063
si:ch211-126j24.1	ENSDARG00000074724	2.164739152	2.26E-05
tnfaip3	ENSDARG00000027777	2.163606523	0.01093354
PTCHD2	ENSDARG00000036999	2.161605964	0.000592675
slc8a4b	ENSDARG00000037145	2.161414363	0.03950715
CABZ01089918.1	ENSDARG00000086952	2.160993025	0.01877391
fam83b	ENSDARG00000078309	2.156196664	0.039847663
si:ch211-120p12.3	ENSDARG00000079473	2.152559978	0.000944038
KIAA0261	ENSDARG00000044144	2.15155503	0.01871546
olfml2ba	ENSDARG00000005716	2.150138141	0.007932245
EPG5	ENSDARG00000059846	2.150083918	0.000212128
SSTR2 (2 of 2)	ENSDARG00000059090	2.149886657	0.030866481
vps26bl	ENSDARG00000055433	2.149260851	0.019909728
zfyve28	ENSDARG00000060430	2.148572178	0.047826141
vwa5b2	ENSDARG00000075886	2.148427133	0.027223063
SLC6A13	ENSDARG00000067567	2.144923286	0.013956923
si:dkey-286j15.1	ENSDARG00000040864	2.144655655	1.33E-07
ranbp3	ENSDARG00000008727	2.143555446	0.013562491
CPEB2	ENSDARG00000052604	2.137133998	0.036896488
si:ch211-207c6.7	ENSDARG00000091918	2.136571171	0.00730573
zdhhc14	ENSDARG00000037069	2.135704897	0.000265343
pcsk1	ENSDARG00000002600	2.134713634	0.02405699
fibcd1	ENSDARG00000060393	2.134409496	0.006553927
NAT14	ENSDARG00000090962	2.133267858	0.00133563
zgc:103438	ENSDARG00000035663	2.132868883	0.001492954
pde3a	ENSDARG00000004227	2.132625058	0.015740886
BX005294.2	ENSDARG00000075935	2.132197311	0.007338907
KLHL38 (2 of 2)	ENSDARG00000040278	2.131639105	0.037243111
DLG4	ENSDARG00000041926	2.131389603	0.007735186
NYNRIN	ENSDARG00000092488	2.129857266	0.023609795
PPM1K (2 of 2)	ENSDARG00000076011	2.129397729	2.18E-10
PLEKHO2	ENSDARG00000016774	2.128635539	0.010438299
crim1	ENSDARG00000029668	2.128250829	0.000632239
pgbd5	ENSDARG00000011042	2.126197122	0.006583948
rictora	ENSDARG00000059414	2.125001032	0.00114152
zbtb44	ENSDARG00000061110	2.124974477	0.011193526
fzd4	ENSDARG00000077111	2.123742388	0.000970809
CACNG4 (1 of 2)	ENSDARG00000074669	2.123426984	0.020747172
insrb	ENSDARG00000071524	2.121056118	8.43E-05
ADAMTS14	ENSDARG00000078494	2.11985616	0.008146219
cngb1a	ENSDARG00000068242	2.11870811	0.000450169
scap	ENSDARG00000018096	2.11700825	0.002554178

HELZ2 (2 of 2)	ENSDARG00000016527	2.115806489	0.043822997
KIRREL3	ENSDARG00000060939	2.114784689	0.006354876
WNK3	ENSDARG00000021611	2.111008975	6.66E-05
si:rp71-52f21.1p	ENSDARG00000078636	2.108380791	0.044726854
numbl	ENSDARG00000024043	2.105994724	0.000845083
lrrc8db	ENSDARG00000044146	2.105147189	0.002359282
si:dkey-8k3.1	ENSDARG00000094594	2.104892212	0.00951176
CARD10	ENSDARG00000088099	2.102848467	0.015236451
TXNRD2 (1 of 2)	ENSDARG00000075923	2.101817822	0.002494893
rem2	ENSDARG00000074064	2.100790302	0.004295786
si:dkey-237g15.2	ENSDARG00000075315	2.099870479	0.000689694
CT476804.2	ENSDARG00000062261	2.097383604	0.035430096
ano5a	ENSDARG00000015731	2.097177707	0.006766284
cpeb3	ENSDARG00000060103	2.096952357	0.002015501
ASXL2	ENSDARG00000076501	2.095232714	0.01283154
scn1lab	ENSDARG00000062744	2.092414209	0.00722618
PAQR9	ENSDARG00000052059	2.091642572	0.047176492
slit1a	ENSDARG00000044954	2.091278933	0.001157433
si:ch211-238e22.2	ENSDARG00000090091	2.086600472	0.0027168
KCTD15	ENSDARG00000058255	2.086403011	0.000637819
BX649356.1	ENSDARG00000060496	2.085237525	1.36E-06
KLHDC8A	ENSDARG00000061000	2.084960303	0.009187139
si:dkey-192j17.1	ENSDARG00000088842	2.081608422	0.033524382
si:dkey-110c1.7	ENSDARG00000061829	2.081571668	0.002962393
foxn3	ENSDARG00000012833	2.081484503	0.021289892
si:dkey-71b5.9	ENSDARG00000092782	2.08140571	0.024317731
ppefl	ENSDARG00000020191	2.081001457	0.005249236
rab3ab	ENSDARG00000043835	2.077779982	0.031212222
zgc:174310	ENSDARG00000076442	2.074169287	4.62E-05
GIGYF1 (1 of 3)	ENSDARG00000075647	2.073151962	0.018851591
gabra1	ENSDARG00000068989	2.07299992	0.030962099
EGFLAM	ENSDARG00000059416	2.072986709	0.049594733
MYPN	ENSDARG00000076485	2.07122605	0.031056746
ACVR2B (2 of 2)	ENSDARG00000041516	2.070939154	0.04022515
abo	ENSDARG00000019207	2.070856232	0.03916543
RAP1GAP	ENSDARG00000053272	2.062093018	0.004046715
C2H3orf58 (1 of 2)	ENSDARG00000012816	2.055142198	2.28E-05
slc26a6	ENSDARG00000055835	2.054753617	0.00049675
cacng6b	ENSDARG00000046079	2.054160184	0.000118471
zbtb37	ENSDARG00000042689	2.052050315	0.043360337
si:ch211-210g13.5	ENSDARG00000062575	2.049484842	0.000148352
ca4a	ENSDARG00000043589	2.048651448	0.01125865
vcpip1	ENSDARG00000060177	2.047471187	0.007901369
MEX3C	ENSDARG00000068971	2.043104441	0.010773979

plxnb2a	ENSDARG00000094799	2.042331165	0.001404787
tmem178b	ENSDARG00000006747	2.041104912	0.042558241
PPP1R16B	ENSDARG00000079860	2.041005143	0.026923498
slc35e4	ENSDARG00000009459	2.040346573	0.021336665
notch1b	ENSDARG00000052094	2.039833688	0.000327392
rims3	ENSDARG00000062305	2.036068898	0.01250851
myo5aa	ENSDARG00000061635	2.035038639	0.030375991
ndrg2	ENSDARG00000011170	2.034581923	0.000501258
fbxo41	ENSDARG00000078908	2.03413796	0.000306195
si:ch211-27919.7	ENSDARG00000093951	2.032286423	0.033942193
setbp1	ENSDARG00000093799	2.031876819	0.007330785
itpr2	ENSDARG00000011909	2.02790799	0.000873428
zdhhc17	ENSDARG00000070441	2.025266458	0.003368048
BX004857.3	ENSDARG00000078137	2.02116227	0.000258117
SLC39A8 (1 of 2)	ENSDARG00000056757	2.020113331	0.001049156
dio3b	ENSDARG00000095767	2.019960378	0.010452133
ARHGAP23 (1 of 2)	ENSDARG00000052950	2.019775636	0.025194814
amigo1	ENSDARG00000079620	2.018875247	0.016988462
enc1	ENSDARG00000035398	2.018175612	0.030102486
	ENSDARG00000079822	2.017365533	0.046758264
dck11b	ENSDARG00000074976	2.016867621	0.030241696
TRIO (1 of 2)	ENSDARG00000019426	2.016163759	0.000234919
ches1	ENSDARG00000043553	2.015796112	0.013338837
ugt5a1	ENSDARG00000016479	2.015017954	0.011354533
si:ch211-284e13.4	ENSDARG00000060330	2.013855856	0.001850463
si:dkey-119m17.2	ENSDARG00000076008	2.012866761	0.007926041
DPY19L3	ENSDARG00000079013	2.012348402	0.005109621
pcyox1	ENSDARG00000024037	2.010929259	0.032677535
CCDC176 (2 of 2)	ENSDARG00000068855	2.010453624	0.008262029
arhgap21a	ENSDARG00000075328	2.007691934	8.40E-06
FP085412.1	ENSDARG00000088128	2.005094993	0.042041791
bmpr2b	ENSDARG00000020057	2.004585521	0.001750845
CNTN6	ENSDARG00000077141	2.003622821	0.027803624
enox1	ENSDARG00000060243	2.003043512	0.000514752
chpfa	ENSDARG00000078392	1.999989301	0.022053246
FYCO1 (2 of 2)	ENSDARG00000078022	1.999158896	0.039925052
ANKRD50	ENSDARG00000045666	1.998270594	0.007810464
C13H20orf194	ENSDARG00000079056	1.997589737	0.003292325
b3galt4	ENSDARG00000076218	1.997075224	0.03481799
PCMTD2 (1 of 2)	ENSDARG00000087644	1.995252307	0.005343085
igdcc3	ENSDARG00000075158	1.993529283	0.000666175
pcdh2g28	ENSDARG00000077771	1.991581624	0.017027144
CABZ01061495.1	ENSDARG00000074844	1.991130693	0.032460124
kitb	ENSDARG00000056133	1.988439372	0.010556025

zgc:65851	ENSDARG00000012281	1.987574944	0.011698785
atm	ENSDARG00000063465	1.985405163	0.001207416
si:dkey-179o14.1	ENSDARG00000078902	1.984411186	0.009744203
sfmbt2	ENSDARG00000045519	1.981435977	0.007614834
slc8a4a	ENSDARG00000055154	1.981198104	0.016425
si:ch1073-280h16.1	ENSDARG00000078752	1.97845849	0.026825146
rps6ka4	ENSDARG00000044436	1.978025432	0.000996278
FKBP15 (3 of 4)	ENSDARG00000095142	1.976185404	0.00296763
KDM4A (1 of 2)	ENSDARG00000018782	1.974843419	0.007162299
CPNE7	ENSDARG00000037084	1.974833036	0.002884808
rnf11b	ENSDARG00000040635	1.974540899	9.64E-07
zgc:158464	ENSDARG00000068165	1.974461388	0.030799679
BX004890.2	ENSDARG00000086505	1.972055508	0.000214364
jph2	ENSDARG00000028625	1.971276592	3.06E-07
RGL3 (2 of 2)	ENSDARG00000022185	1.971243286	0.03775219
MAP1A (1 of 2)	ENSDARG00000022045	1.968169223	0.044088412
faim2a	ENSDARG00000038784	1.968148625	0.000844266
rasgrp3	ENSDARG00000077864	1.967225993	0.020095223
noal	ENSDARG00000020178	1.967086243	0.008914479
btbd11b	ENSDARG00000063040	1.964000807	0.00355326
tyro3	ENSDARG00000005356	1.963070127	0.003866867
atmin	ENSDARG00000068601	1.963040377	0.002457089
zgc:158564	ENSDARG00000052244	1.962519395	0.002091304
PROZ (1 of 2)	ENSDARG00000076900	1.961788092	0.023520064
ccnt1	ENSDARG00000017525	1.961720542	0.024234983
lrre8a	ENSDARG00000032188	1.961499485	0.027669434
CABZ01009712.1	ENSDARG00000078523	1.960875286	0.034929565
pdgfra	ENSDARG00000070494	1.959298442	0.039125892
wu:fc17b08	ENSDARG00000094249	1.95882204	0.014979995
rest	ENSDARG00000007222	1.956858194	0.043729451
irs2	ENSDARG00000075282	1.955280486	0.028004095
si:ch1073-219n12.1	ENSDARG00000063580	1.951533388	0.001641987
TENM2 (2 of 3)	ENSDARG00000090676	1.951329362	0.048592228
RBM33	ENSDARG00000068562	1.950944798	0.000548294
dab2ipb	ENSDARG00000075110	1.950423049	0.009297101
CNOT6 (2 of 2)	ENSDARG00000022001	1.94828096	0.027996081
lyve1b	ENSDARG00000062483	1.941886715	0.004867483
CABZ01084323.1	ENSDARG00000059452	1.941532864	0.038570427
wnt9a	ENSDARG00000063437	1.938726852	0.018463545
foxo1a	ENSDARG00000063540	1.937575179	0.034750351
NUGGC (4 of 4)	ENSDARG00000058672	1.935925668	0.037324207
CABZ01070007.1	ENSDARG00000079113	1.93534896	0.003818559
azi1	ENSDARG00000088984	1.934705176	0.005775724
tatdn3	ENSDARG00000054076	1.932643947	0.047598617

si:dkey-4c15.17	ENSDARG00000095449	1.930676975	0.017406002
KCNJ12 (2 of 2)	ENSDARG00000062618	1.930347424	0.001047604
SLC7A3 (2 of 2)	ENSDARG00000061566	1.930203713	0.010923662
CREB3L3 (2 of 2)	ENSDARG00000090903	1.928308993	0.01539879
BX927253.1	ENSDARG00000089111	1.927745161	0.022632859
FAR2	ENSDARG00000009262	1.926937813	0.024665862
C22H19orf26 (1 of 2)	ENSDARG00000071325	1.926583654	0.00715714
TNPO1 (2 of 2)	ENSDARG00000086086	1.922338119	0.044458683
gdf5	ENSDARG00000002760	1.92165496	0.049891519
ciz1a	ENSDARG00000089781	1.919934136	0.000655911
clip2	ENSDARG00000059596	1.919361842	5.65E-08
CR388231.1	ENSDARG00000076443	1.918358292	0.026025417
fnbp1	ENSDARG00000036156	1.917346212	0.025935311
rpgr11	ENSDARG00000051754	1.917197674	0.004536544
CU062415.1	ENSDARG00000091362	1.91586739	0.014172761
zgc:163025	ENSDARG00000076045	1.915620894	0.001131304
	ENSDARG00000040502	1.914821694	0.0083834
CABZ01004375.1	ENSDARG00000087114	1.912386328	0.033838189
CCDC88A (2 of 2)	ENSDARG00000078440	1.910809272	0.020810873
DDO (2 of 2)	ENSDARG00000079664	1.90719591	0.045671637
CDH24 (1 of 2)	ENSDARG00000077996	1.904756188	0.017174135
dock3	ENSDARG00000063180	1.902822077	0.043901908
si:ch211-229i14.2	ENSDARG00000086048	1.902274181	0.040982916
ntn2	ENSDARG00000076748	1.901492443	0.006793475
tnr	ENSDARG00000020771	1.900661023	8.55E-05
si:ch211-213a13.11	ENSDARG00000074546	1.900262148	0.01466915
gabrb1b	ENSDARG00000016667	1.899812554	0.010086738
micall1	ENSDARG00000079811	1.899456595	0.016736132
cyp2aa1	ENSDARG00000070017	1.899433512	1.01E-05
CLMP	ENSDARG00000003145	1.898028448	0.029393658
CR848021.1	ENSDARG00000055223	1.896450869	0.00232093
SCARF2	ENSDARG00000079757	1.895921787	0.012390861
tbc1d10a	ENSDARG00000060096	1.895704984	0.019028858
klf4a	ENSDARG00000079922	1.894172155	0.049092469
abat	ENSDARG00000006031	1.892701547	0.020300177
hspa12a	ENSDARG00000070603	1.892296929	0.036744595
serping1	ENSDARG00000058053	1.891317807	0.001978315
si:ch73-60g14.2	ENSDARG00000092226	1.891314557	0.00476688
frem2a	ENSDARG00000076856	1.890978486	2.60E-05
CABZ01118047.1	ENSDARG00000043008	1.890443559	0.002651107
PDXP	ENSDARG00000038315	1.889533608	0.033063584
ZNF41	ENSDARG00000043090	1.888084056	0.024181639
GRAMD1B (2 of 2)	ENSDARG00000075383	1.886565657	0.000502729
DCLK2 (3 of 3)	ENSDARG00000079882	1.885997486	0.01593503

si:ch211-250o15.5	ENSDARG00000092739	1.885584064	0.031845051
aldh3a2b	ENSDARG00000029381	1.884781347	1.73E-05
si:ch211-136m16.8	ENSDARG00000090767	1.883730263	0.018983295
sptbn2	ENSDARG00000053956	1.881283317	0.001988247
adcy1b	ENSDARG00000088634	1.88053479	0.001022823
adamts8a	ENSDARG00000007709	1.880396239	0.004596707
cspg4	ENSDARG00000078227	1.879296493	0.009658872
CR925817.1	ENSDARG00000055093	1.876424467	0.015361959
srf	ENSDARG00000053918	1.876044869	0.048874997
si:dkey-228a15.1	ENSDARG00000095698	1.875258822	0.00013214
MKL2 (3 of 3)	ENSDARG00000076867	1.874839378	0.005720364
OTTDARG00000032278	ENSDARG00000073861	1.873837876	0.048532108
GSK3B (2 of 2)	ENSDARG00000052468	1.872796543	0.024004265
pou2f1b	ENSDARG00000007996	1.87203347	0.014869613
mif4gdb	ENSDARG00000006331	1.87151452	0.029980935
mef2aa	ENSDARG00000031756	1.871446334	0.014231415
si:dkeyp-73d8.12	ENSDARG00000086504	1.871289085	0.027124021
efr3a	ENSDARG00000005163	1.870067753	0.010564254
slc6a8	ENSDARG00000043646	1.869985418	0.017639538
kenk10a	ENSDARG00000062849	1.869963403	0.008980692
shisa4	ENSDARG00000006307	1.869755005	0.000374964
ITGA4	ENSDARG00000061186	1.868181228	0.012062064
hfm1	ENSDARG00000068922	1.864678595	0.007693915
zfyve16	ENSDARG00000075747	1.863596724	0.010614905
URB1 (2 of 2)	ENSDARG00000087043	1.862361651	0.003389701
HERC4	ENSDARG00000059936	1.86144255	0.004106225
klf13	ENSDARG00000061368	1.860607001	0.001536015
thsd7ba	ENSDARG00000095022	1.860156242	0.019846027
zgc:136791	ENSDARG00000091320	1.860128858	0.000983402
	ENSDARG00000095217	1.85997975	0.016184282
si:dkey-202n8.1	ENSDARG00000087118	1.859427775	0.014315997
myo10l3	ENSDARG00000074143	1.858646086	0.004624967
gas2l1	ENSDARG00000078803	1.858120421	0.005287915
gtpbp2	ENSDARG00000071059	1.857474586	0.000359809
OCRL (1 of 2)	ENSDARG00000060541	1.85591379	0.002756756
cacna1ba	ENSDARG00000021735	1.85380664	0.00539944
spred2b	ENSDARG00000008372	1.853726144	9.92E-05
QPCT	ENSDARG00000089717	1.853517551	6.43E-05
fam69b	ENSDARG00000059881	1.852490765	0.023613622
C23H1orf116 (1 of 2)	ENSDARG00000074827	1.85211602	0.003702182
zgc:63863	ENSDARG00000039194	1.851920769	0.001173693
htt	ENSDARG00000091911	1.851464766	0.015037039
f9b	ENSDARG00000029493	1.850810416	0.006639177
arhgef11	ENSDARG00000052482	1.850714838	0.001279991

CABZ01006254.1	ENSDARG00000051715	1.850394125	0.002951004
mbnl3	ENSDARG00000016085	1.850198706	0.008589925
SNTA1	ENSDARG00000090781	1.850001928	0.042932772
fbn2b	ENSDARG00000016744	1.849607988	0.00027759
TNFRSF1B	ENSDARG00000070165	1.849345233	0.042241866
si:dkey-166k12.1	ENSDARG00000054690	1.847833518	0.03354657
asap1a	ENSDARG00000029463	1.843936498	0.02920539
si:dkey-32n7.4	ENSDARG00000002956	1.842583592	0.044176802
GTSF1	ENSDARG00000000887	1.841569837	0.011566278
DLGAP4	ENSDARG00000012823	1.84137276	0.003561386
disc1	ENSDARG00000021895	1.840793048	0.008013602
CU468041.1	ENSDARG00000088644	1.837822862	0.018104934
tgfbr3	ENSDARG00000078670	1.837090683	0.003514989
MRC2	ENSDARG00000078135	1.836130167	0.011842686
vdrb	ENSDARG00000070721	1.834748444	0.012631905
onecut1	ENSDARG00000007982	1.832127669	0.034217546
atg9b	ENSDARG00000055292	1.832031299	0.031456864
kctd8	ENSDARG00000067507	1.82965563	0.015337251
col4a1	ENSDARG00000055009	1.827324482	0.046310412
gpd2	ENSDARG00000062430	1.826328674	0.015772042
ctu1	ENSDARG00000020986	1.825888211	0.011674628
wwtr1	ENSDARG00000067719	1.824471382	0.004600964
cldn5a	ENSDARG00000043716	1.82145203	0.030568762
CAMSAP2 (2 of 2)	ENSDARG00000059965	1.819963812	0.017899123
pde4cb	ENSDARG00000002411	1.81955049	0.00402425
DGKG	ENSDARG00000062696	1.817153903	0.044859732
CR405682.1	ENSDARG00000074506	1.817129979	0.016020087
RGS3	ENSDARG00000094605	1.815244983	0.007730897
csdc2b	ENSDARG00000068477	1.81281177	0.038868779
KIAA2026 (1 of 2)	ENSDARG00000090250	1.809790737	0.023711158
CU929150.1	ENSDARG00000038587	1.809526786	0.034397196
epb41a	ENSDARG00000070585	1.806636789	0.005666964
ulk1b	ENSDARG00000074481	1.806570169	0.01311862
flrt1a	ENSDARG00000077556	1.806349512	0.006260398
cyp2aa8	ENSDARG00000090403	1.806261105	0.039168131
mtmr12	ENSDARG00000059817	1.80530118	2.42E-06
THSD7B	ENSDARG00000061497	1.804151795	0.01327613
DBC1	ENSDARG00000078302	1.803350008	0.011022784
PKD1	ENSDARG00000030417	1.801999782	1.35E-05
F13B (2 of 4)	ENSDARG00000092786	1.801850906	0.001723207
	ENSDARG00000079161	1.800538816	0.0070095
dock5	ENSDARG00000001968	1.79758721	0.006855871
cnnm4	ENSDARG00000074309	1.795934811	0.041270339
vezf1b	ENSDARG00000061030	1.79328092	0.035600068

atp8b5a	ENSDARG00000062040	1.792364844	0.024031428
	ENSDARG00000086199	1.79061521	0.046436121
map2k4a	ENSDARG00000063583	1.790301197	0.012168319
gfra2a	ENSDARG00000042723	1.789862725	0.000135564
CR854899.1	ENSDARG00000090385	1.789274892	0.023520874
CU694445.1	ENSDARG00000078705	1.786412298	0.000269423
DKEY-43L20.2	ENSDARG00000067549	1.786077048	0.004972113
nadl1.2	ENSDARG00000007149	1.785664013	0.03350058
cabp1b	ENSDARG00000033411	1.785218356	0.047579535
zgc:110425	ENSDARG00000058479	1.785091559	0.042421871
sorl1	ENSDARG00000013892	1.784780123	0.014896396
RAI1	ENSDARG00000076679	1.783366666	0.008100657
extl3	ENSDARG00000026811	1.782925961	0.017143802
	ENSDARG00000031345	1.782572191	0.022287977
ntf3	ENSDARG00000059043	1.781953205	0.035260853
duox	ENSDARG00000062632	1.781778955	0.046988314
CABZ01030889.1	ENSDARG00000019157	1.78070079	0.012491095
arhgap23b	ENSDARG00000026840	1.778389979	0.031872748
ncanb	ENSDARG00000005783	1.778348998	0.040413486
PDE1A	ENSDARG00000060875	1.77824369	0.036223348
si:ch1073-459b3.2	ENSDARG00000067825	1.778091181	0.040198156
vstm4b	ENSDARG00000053186	1.777149068	0.033131085
traf2b	ENSDARG00000017812	1.777063405	0.007366505
ghrhra	ENSDARG00000037341	1.776601144	0.046589963
adam11	ENSDARG00000079204	1.77621138	0.003627609
gramd4	ENSDARG00000069171	1.775174388	0.021103293
PTPRU	ENSDARG00000094911	1.774884135	0.023355329
PPP1R15B	ENSDARG00000068128	1.773517605	0.001796611
unc93a	ENSDARG00000041554	1.773246367	0.031046286
gpr3711b	ENSDARG00000056774	1.771847008	0.045257109
BEGAIN (2 of 2)	ENSDARG00000089545	1.771418001	0.012904234
BX530018.3	ENSDARG00000062341	1.77104267	0.001012807
C17H14orf80	ENSDARG00000091366	1.770646009	0.022800406
SDR42E2	ENSDARG00000059914	1.767233755	0.036871219
CU210890.2	ENSDARG00000088051	1.767158487	0.007577538
FOXO4	ENSDARG00000055792	1.766773133	0.04576288
phospho1	ENSDARG00000008403	1.766216621	0.000758561
cacna1bb	ENSDARG00000079295	1.764256941	0.002870477
NHS (1 of 2)	ENSDARG00000079977	1.764078929	0.012211678
BX005294.4	ENSDARG00000095637	1.763067249	0.006726777
rab27a	ENSDARG00000040532	1.761898419	0.000482727
arrb1	ENSDARG00000043241	1.761138421	0.013126086
ppargc1a	ENSDARG00000067829	1.761048222	0.017162073
ELL3	ENSDARG00000038121	1.760187777	0.047399656

acvr2b	ENSDARG00000044422	1.76012502	0.007433267
shda	ENSDARG00000094243	1.759164979	0.011597131
pnpla4	ENSDARG00000069834	1.757822409	0.041506805
tuft1b	ENSDARG00000071010	1.757368448	0.00010913
si:dkeyp-67a8.3	ENSDARG00000095647	1.755768515	0.014008921
AAK1 (2 of 2)	ENSDARG00000011855	1.755730228	0.020383717
GPR158 (2 of 2)	ENSDARG00000079665	1.754492064	0.006920237
CABZ01041769.1	ENSDARG00000029232	1.753951361	0.027030854
adamts6	ENSDARG00000041982	1.750807162	0.011903364
BX323016.2	ENSDARG00000091465	1.7496952	0.016875283
adamts18	ENSDARG00000001999	1.749512747	0.001732458
SZT2	ENSDARG00000077753	1.74747032	7.25E-05
tert	ENSDARG00000042637	1.746290297	0.000434829
pbx1a	ENSDARG00000089610	1.745933067	0.004283612
CABZ01038524.1	ENSDARG00000088443	1.745813539	0.041436173
zfyve26	ENSDARG00000040131	1.745507794	0.001603394
slc24a4a	ENSDARG00000015425	1.744674949	0.029375558
GUSB (2 of 2)	ENSDARG00000063126	1.742940705	0.006212717
CDK18	ENSDARG00000012204	1.742905804	0.016069893
si:ch1073-126c3.2	ENSDARG00000092858	1.739019675	0.04013664
syt3	ENSDARG00000075830	1.737616061	0.001077759
dnmt3aa	ENSDARG00000005394	1.737395999	0.004993342
rab11fip4a	ENSDARG00000053855	1.735767894	0.048950758
pde5ab	ENSDARG00000051915	1.735570257	0.029610774
socs9	ENSDARG00000074493	1.731932045	0.047149056
sfxn1	ENSDARG00000019963	1.72839881	0.0015144
fasn	ENSDARG00000078895	1.72620674	0.007657668
stat5.2	ENSDARG00000055588	1.724659734	0.00096712
zgc:110782	ENSDARG00000044544	1.724395563	0.045701231
AP3B2	ENSDARG00000063432	1.723616167	0.005604104
ablim1b	ENSDARG00000045064	1.722573569	0.003604251
fam78a	ENSDARG00000088222	1.722156308	0.035974257
marveld3	ENSDARG00000026011	1.72184275	0.001504736
si:dkey-31n13.4	ENSDARG00000074202	1.719990222	0.029738674
cnksr2a	ENSDARG00000074480	1.71741358	0.005229766
TRIM46	ENSDARG00000012367	1.717281718	0.025632515
ryr2a	ENSDARG00000079171	1.713256185	0.011181118
appl2	ENSDARG00000078139	1.713033603	0.048299864
RAP1GAP2 (2 of 2)	ENSDARG00000061551	1.71258487	0.000677267
ern2	ENSDARG00000058475	1.708455237	0.008173032
cdh15	ENSDARG00000068191	1.706077576	0.002016038
IKZF4	ENSDARG00000037068	1.706049499	0.036587452
sema3bl	ENSDARG00000007560	1.704783822	0.029366261
pcdh8	ENSDARG00000006467	1.701995627	0.002195976

dysf	ENSDARG0000007370	1.701813119	0.009145263
	ENSDARG00000058145	1.700304221	0.028377032
dab1a	ENSDARG00000059939	1.700066809	0.011551806
si:dkey-193c22.2	ENSDARG00000076735	1.698732265	0.03471626
gusb	ENSDARG00000095529	1.694648319	0.025150984
trpm3	ENSDARG00000039181	1.693509333	0.047150599
mbnl1	ENSDARG00000052978	1.693147418	0.001962343
PBX1 (1 of 2)	ENSDARG00000089550	1.690916078	0.011390934
SAMD4A	ENSDARG00000075759	1.689897853	0.000368805
tnip1	ENSDARG00000015653	1.689889199	0.047804549
TRPM4 (3 of 3)	ENSDARG00000063435	1.689050563	0.038215094
esy1b	ENSDARG00000014239	1.688955397	0.014561007
cyp4v7	ENSDARG00000061585	1.687515869	0.005267762
si:ch211-200p22.4	ENSDARG00000029170	1.686269997	0.005210142
FBXL17	ENSDARG00000042072	1.685824898	0.0175175
si:dkey-281i8.1	ENSDARG00000069936	1.685473964	0.003306751
chrna2a	ENSDARG00000006602	1.685472843	0.034613051
sema3ab	ENSDARG00000042210	1.684634112	0.0121149
emilin2a	ENSDARG00000061196	1.682988054	0.000172406
fam63b	ENSDARG00000017431	1.681482573	0.015463398
AL929217.1	ENSDARG00000059891	1.681402009	0.040277812
adamts15a	ENSDARG00000029124	1.680576302	0.009898886
kcncl1a	ENSDARG00000051852	1.67874407	0.005947015
si:dkey-106c17.3	ENSDARG00000059747	1.678104476	0.016033159
si:ch211-282j22.3	ENSDARG00000010524	1.674712668	0.000952726
znf532	ENSDARG00000052894	1.671895578	0.00238901
tyk2	ENSDARG00000020326	1.671723947	0.010171018
AMBRA1 (1 of 2)	ENSDARG00000008322	1.669879606	0.044132111
PATZ1	ENSDARG00000076584	1.669385329	0.046711916
adm2a	ENSDARG00000045708	1.668205335	0.000711657
scn8aa	ENSDARG00000005775	1.666182877	0.019500648
kbtbd8	ENSDARG00000070698	1.665294612	0.022418196
TMEM248	ENSDARG00000018825	1.66461686	0.00425068
BX248124.2	ENSDARG00000074270	1.662978596	0.036532929
grial1a	ENSDARG00000021352	1.662842592	0.04678137
inpp5k	ENSDARG00000078618	1.662422897	0.031702496
ADAMTS16	ENSDARG00000074646	1.661232623	0.039116058
si:ch73-27e22.6	ENSDARG00000031731	1.65990982	0.000813929
si:dkey-269o24.1	ENSDARG00000090477	1.659194225	0.012591351
abcg1	ENSDARG00000063475	1.657832895	0.029444316
myo7bb	ENSDARG00000077201	1.65756624	0.049938788
FAT1	ENSDARG00000019063	1.657308328	0.019084575
trio	ENSDARG00000000370	1.655754612	0.000108564
ptpn21	ENSDARG00000062248	1.655597479	0.014475298

klf7a	ENSDARG00000073857	1.65541075	0.01385975
CU929219.1	ENSDARG00000086739	1.654664917	0.011267777
ttc23	ENSDARG00000022160	1.654556254	0.018756072
SGPP1 (1 of 2)	ENSDARG00000060534	1.652665345	0.019986606
PPEF2	ENSDARG00000079413	1.652478609	0.035291104
si:dkey-265e7.1	ENSDARG00000095293	1.651358867	0.034310244
fam120b	ENSDARG00000030804	1.65043858	0.012137583
ghitm	ENSDARG00000014573	1.648883057	0.002193877
ppm1ba	ENSDARG00000001888	1.64847045	0.002202201
OSGIN1	ENSDARG00000052279	1.64830556	0.009941206
daam2	ENSDARG00000028393	1.648211784	0.031067589
ids	ENSDARG00000071699	1.645978172	0.00025057
TEAD3 (2 of 2)	ENSDARG00000063649	1.645737729	0.025015579
pex5la	ENSDARG00000022518	1.645351937	0.041190086
fscn2a	ENSDARG00000059574	1.644159429	0.013098383
nbeal2	ENSDARG00000057508	1.643330805	0.001832249
CR382298.2	ENSDARG00000052114	1.643059219	0.03444683
phyhiplb	ENSDARG00000070498	1.641190574	0.016048655
rhoj	ENSDARG00000020250	1.640910245	0.041565899
C18H19orf47	ENSDARG00000020611	1.640894413	0.025801489
slc16a12a	ENSDARG00000017773	1.638119233	6.40E-05
tnpo1	ENSDARG00000035390	1.636151013	0.003492011
TMEM150A (2 of 2)	ENSDARG00000035184	1.635857121	0.006272357
zgc:158659	ENSDARG00000060597	1.633600776	0.038337638
mrpl9	ENSDARG00000063249	1.631858718	0.000802121
smg1	ENSDARG00000054570	1.630008189	7.09E-07
nfixb	ENSDARG00000061836	1.627668491	0.022163671
si:ch211-79g12.2	ENSDARG00000092819	1.627406711	0.004164138
hacel	ENSDARG00000062280	1.626754292	0.025453006
ibtk	ENSDARG00000074424	1.624474979	0.005400897
CR382385.1	ENSDARG00000088507	1.623455074	0.015630819
si:dkey-19n13.5	ENSDARG00000088741	1.623318846	0.025385771
si:dkey-27n6.10	ENSDARG00000074268	1.622575062	0.007436209
si:dkey-264f17.2	ENSDARG00000087499	1.619139671	0.03723806
magi2	ENSDARG00000021590	1.617702473	0.04910738
si:ch211-181d7.3	ENSDARG00000068621	1.617282773	0.018365081
si:dkey-1d7.3	ENSDARG00000075837	1.617257853	0.025985928
camk1da	ENSDARG00000074905	1.617048113	0.014121445
MIER3 (1 of 2)	ENSDARG00000021288	1.616997763	0.003027745
BX004880.1	ENSDARG00000062913	1.616055795	0.007723162
ephb2a	ENSDARG00000037373	1.615453469	0.041952983
ADAMTS17	ENSDARG00000075555	1.615052492	0.018046558
ARID3A	ENSDARG00000070843	1.614920217	0.028273768
SLC4A7	ENSDARG00000073952	1.613275724	0.024132777

FAM110D	ENSDARG00000062517	1.612778471	0.021511725
si:dkey-32e23.4	ENSDARG00000063159	1.611821935	0.008179286
thsd7a	ENSDARG00000061479	1.61111726	0.023312697
PPP2R2A	ENSDARG00000021996	1.606268679	0.049146403
soga3a	ENSDARG00000063311	1.606088214	0.030473583
nf1b	ENSDARG00000004184	1.606037723	0.000986794
adam8b	ENSDARG00000057644	1.605614719	0.01432356
ZFP37 (16 of 39)	ENSDARG00000095173	1.604343803	0.032950091
arhgap39	ENSDARG00000073853	1.604100323	0.011717977
ugt5d1	ENSDARG00000002394	1.60383171	0.00105094
cntn2	ENSDARG00000000472	1.603394196	0.022199763
IMPG1 (2 of 2)	ENSDARG00000074839	1.600842469	0.041444558
ccb12	ENSDARG00000013423	1.600264943	0.013025187
mtp	ENSDARG00000008637	1.598467559	7.13E-05
ptgdsb	ENSDARG00000027088	1.598465787	0.049801776
cyp2x7	ENSDARG00000044002	1.596982143	0.007600385
pacs2	ENSDARG00000078185	1.593901809	0.031954245
dedd1	ENSDARG00000093482	1.593576343	0.026137122
XPO5	ENSDARG00000078338	1.592934042	0.034588867
myo6b	ENSDARG00000042141	1.591915835	0.014319543
f8	ENSDARG00000015247	1.591620952	0.008184654
si:ch211-205a14.1	ENSDARG00000095055	1.590083562	0.027489694
tmem63ba	ENSDARG00000003836	1.589356188	0.02851736
NFE2L1 (1 of 2)	ENSDARG00000076533	1.588572925	0.011266
CR792456.1	ENSDARG00000022101	1.588137229	0.018792322
grin2da	ENSDARG00000086207	1.586808983	0.004610948
zgc:194398	ENSDARG00000078250	1.586798014	0.017422035
lama3	ENSDARG00000071462	1.586567574	0.025753473
xylt1	ENSDARG00000061248	1.586277013	0.027766021
zgc:154018	ENSDARG00000068613	1.585542365	0.030363505
AL929022.2	ENSDARG00000079765	1.585185132	0.029260691
SDK2 (2 of 2)	ENSDARG00000078116	1.584428496	0.009089225
apbb2b	ENSDARG00000061880	1.582733347	0.001753052
si:dkeyp-41f9.3	ENSDARG00000075600	1.582482579	0.030013015
anpepa	ENSDARG00000041083	1.581100495	0.026525719
si:dkey-103i16.6	ENSDARG00000062893	1.580591331	0.011229238
strn4	ENSDARG00000086823	1.579857969	0.048420721
RASGRF1	ENSDARG00000073824	1.576105629	0.0023345
b3galt6	ENSDARG00000038414	1.575904562	0.038692166
CRISPLD2	ENSDARG00000088595	1.575499176	0.033486997
nkain4	ENSDARG00000062699	1.574163511	0.00876659
PPP4R1L	ENSDARG00000079289	1.573049853	0.030866692
BX649282.1	ENSDARG00000061222	1.572114473	0.038822029
rasa4	ENSDARG00000029372	1.570581964	0.010447016

AL929134.1	ENSDARG00000091833	1.570337839	0.006352666
met	ENSDARG00000070903	1.568640795	0.009774326
smcr8b	ENSDARG00000015803	1.568510081	0.020068732
bace2	ENSDARG00000044781	1.567890089	0.041518407
pdzd3a	ENSDARG00000040568	1.567587377	0.024635631
SRCAP	ENSDARG00000005236	1.567282193	0.002070638
erbb2ip	ENSDARG00000044281	1.566393016	0.014446709
pdk4	ENSDARG00000054848	1.565626262	0.001632019
vcana	ENSDARG00000078680	1.564472161	0.047399057
CCDC39	ENSDARG00000016485	1.563895399	7.98E-05
ptpn11b	ENSDARG00000012340	1.563709552	0.014670725
mical3a	ENSDARG00000095496	1.562630471	0.023168954
ush2a	ENSDARG00000029482	1.562428082	0.011261438
zgc:113516	ENSDARG00000008035	1.560895364	0.007427819
abca4a	ENSDARG00000057169	1.558247026	0.009955818
RIMBP2 (3 of 4)	ENSDARG00000088977	1.556513826	0.027764174
ccdc14	ENSDARG00000086557	1.55515333	0.038083776
sh3gl3a	ENSDARG00000013360	1.555127604	0.049589707
FAM107A	ENSDARG00000086300	1.555048806	0.002192993
abcb11b	ENSDARG00000070078	1.554016106	0.048968679
tmem56a	ENSDARG00000056960	1.553997656	0.004876807
c6	ENSDARG00000093052	1.553465004	0.011751333
kalrna	ENSDARG00000078117	1.553089461	0.000530084
tmem62	ENSDARG00000053890	1.552049814	0.026596553
myo5b	ENSDARG00000093553	1.551845513	0.018829655
si:dkey-250k10.1	ENSDARG00000091811	1.550273636	0.045937291
VDAC3 (2 of 3)	ENSDARG00000021564	1.548537016	0.018437891
MCAM (3 of 3)	ENSDARG00000089643	1.548409177	0.037682279
rbpjb	ENSDARG00000052091	1.548240901	0.029996244
fsd11	ENSDARG00000059432	1.547739025	0.021121233
renbp	ENSDARG00000008931	1.546464349	0.014259866
golga4	ENSDARG00000075331	1.545975891	0.049929752
git2b	ENSDARG00000042791	1.545653777	0.020308669
RASSF3	ENSDARG00000059064	1.545442118	0.031174483
CT955987.1	ENSDARG00000012649	1.545428414	0.012864481
bnc2	ENSDARG00000069989	1.545339925	0.016556955
stat3	ENSDARG00000022712	1.543913337	0.049072469
nipbla	ENSDARG00000093281	1.543005652	0.049543204
METTL12	ENSDARG00000054856	1.542383885	0.049702239
RIMBP2 (4 of 4)	ENSDARG00000074614	1.541666565	0.011010405
mapk13	ENSDARG00000058470	1.539848322	0.016102807
st3gal3b	ENSDARG00000015252	1.539769465	0.043705513
ACAP2 (2 of 2)	ENSDARG00000056478	1.537470929	0.036313625
C18H16orf70	ENSDARG00000041560	1.536753076	0.022737722

ift81	ENSDARG00000007444	1.535693377	0.037260376
pkn2	ENSDARG00000006705	1.535615303	0.007847152
ARHGAP21 (2 of 3)	ENSDARG00000096004	1.535031782	0.028720721
GARNL3	ENSDARG00000060631	1.534994499	0.008971009
taspl	ENSDARG00000060580	1.532269614	0.049709729
OTOA	ENSDARG00000080675	1.531314687	0.042910606
PGS1	ENSDARG00000075857	1.531078847	0.012529451
vwf	ENSDARG00000077231	1.530849898	0.030136276
mllt4	ENSDARG00000029472	1.530446652	0.036805716
celf5	ENSDARG00000071375	1.53022001	0.009158475
csad	ENSDARG00000026348	1.528319745	0.004824336
plekhh2	ENSDARG00000040851	1.527221498	0.021733976
CU570793.2	ENSDARG00000075226	1.526255765	0.025693782
BX000363.1	ENSDARG00000088310	1.525316113	0.031002254
lrp1	ENSDARG00000029146	1.524979241	0.002712463
pi4kab	ENSDARG00000062823	1.524855516	0.00032369
arhgap17a	ENSDARG00000020488	1.524261303	0.021096812
myo7aa	ENSDARG00000061937	1.524220341	0.011692657
slc12a2	ENSDARG00000086870	1.522724352	0.021282814
pi4k2a	ENSDARG00000033666	1.522162656	0.00073276
csnk1g1	ENSDARG00000033872	1.521205418	0.011040566
gas5	ENSDARG00000092337	1.520727411	0.002680006
GBF1 (1 of 2)	ENSDARG00000088406	1.520495435	0.041445979
cyp46a1	ENSDARG00000012137	1.519612848	0.018682079
chl1a	ENSDARG00000077881	1.519417722	0.032418998
C3 (3 of 9)	ENSDARG00000043719	1.516981477	0.000490419
traf3ip1	ENSDARG00000010300	1.513937884	0.034119695
DIDO1 (2 of 2)	ENSDARG00000057907	1.513511238	0.000897774
BX901915.1	ENSDARG00000030173	1.513171545	0.022610775
pink1	ENSDARG00000001929	1.51279018	0.006407555
CR936442.1	ENSDARG00000009890	1.511710408	0.001708866
HIP1R (1 of 2)	ENSDARG00000059484	1.508721764	0.008272156
obs1a	ENSDARG00000003684	1.507388344	0.002648238
KSR1 (1 of 2)	ENSDARG00000068714	1.506449125	0.023448612
baz1a	ENSDARG00000019699	1.506390721	0.043109544
sec22ba	ENSDARG00000030108	1.505830805	0.001543047
ubr4	ENSDARG00000009549	1.505450591	3.89E-05
EP400NL	ENSDARG00000074040	1.504761256	0.004488014
si:ch73-347c12.3	ENSDARG00000068830	1.504189493	0.020629737
atp8b1	ENSDARG00000060980	1.503958677	0.021495288
gpa33	ENSDARG00000040898	1.502937803	0.01493163
fam131bb	ENSDARG00000070575	1.502427684	0.030174046
CABZ01068602.1	ENSDARG00000089390	1.501885583	0.007033233
pax2b	ENSDARG00000032578	1.501577013	0.04543431

SEMA4D	ENSDARG00000067801	1.501301529	0.03376483
ppp2r3a	ENSDARG00000077722	1.500043731	0.048526488