

Supplementary Table 4. Down regulated genes in 4 dpf zebrafish embryos at 0.5hpi with 100 nM recombinant human insulin

Gene	Gene Id	Fold change	p-value
itln2	ENSDARG00000036084	-31.73071188	5.65E-05
SNORD65	ENSDARG00000080188	-12.60958897	0.036447439
si:dkeyp-85d8.4	ENSDARG00000096134	-11.42015565	0.041297046
TAAR1 (10 of 92)	ENSDARG00000086732	-11.41051319	0.045706974
si:dkey-10f21.16	ENSDARG00000092159	-11.29919922	0.003894418
si:ch211-272h9.1	ENSDARG00000095105	-10.9539966	0.00429476
CR788316.2	ENSDARG00000073836	-10.91924422	0.001441387
BX571811.2	ENSDARG00000095082	-10.82254056	0.000400924
si:ch211-113a14.10	ENSDARG00000089044	-9.10331377	0.033203162
CABZ01006980.1	ENSDARG00000088913	-8.897984411	0.000367782
lepa	ENSDARG00000091085	-7.616670369	0.008014069
BX571811.1	ENSDARG00000036085	-7.418662066	0.001065843
cyp2x10.2	ENSDARG00000006501	-7.048614206	0.049045038
CR788316.1	ENSDARG00000038111	-6.853061462	0.01115146
Metazoa_SRP	ENSDARG00000090964	-6.798296689	0.049669693
trim35-20	ENSDARG00000070847	-6.674162559	0.046775114
zgc:114037	ENSDARG00000086546	-6.672768053	0.013439516
si:dkey-202b22.6	ENSDARG00000045552	-6.368924157	0.001825471
si:rp71-45g20.7	ENSDARG00000056912	-6.357479686	0.049262609
zgc:112234	ENSDARG00000094610	-6.22815899	0.025921868
cd79a	ENSDARG00000037473	-5.828595918	0.036344809
si:dkey-192k22.2	ENSDARG00000095111	-5.717080192	0.035970664
si:dkeyp-101e12.1	ENSDARG00000067688	-5.48542288	0.002009536
pstpip1b	ENSDARG00000053568	-5.400155566	0.027612558
CT583728.6	ENSDARG00000087391	-5.157468065	0.041613933
si:ch211-163f10.4	ENSDARG00000095840	-5.109615776	0.014541651
il11a	ENSDARG00000037859	-4.856022977	0.035738151
CU570881.1	ENSDARG00000078024	-4.842024195	0.013153742
has1	ENSDARG00000042983	-4.714775439	0.014771846
hm:zeh0619	ENSDARG00000038408	-4.464157352	0.037066401
cnr2	ENSDARG00000039970	-4.420574641	0.041930038
	ENSDARG00000087009	-4.308261674	0.048389275
RGAG1	ENSDARG00000090419	-4.308261674	0.048389275
CU302436.4	ENSDARG00000091905	-4.238737117	0.00827757
	ENSDARG00000094744	-4.080965144	0.014276658
zgc:113363	ENSDARG00000038382	-4.040442063	0.001672419
CABZ01044346.1	ENSDARG00000074439	-3.898779843	0.017324628
	ENSDARG00000088259	-3.820450779	0.034299892
CABZ01048956.1	ENSDARG00000089465	-3.701631878	0.004742445
	ENSDARG00000078724	-3.680916174	0.021012283
si:dkey-264f17.4	ENSDARG00000092910	-3.597737178	0.043162339
wu:fe38f03	ENSDARG00000091313	-3.491520164	0.043346442
CT583728.18	ENSDARG00000090094	-3.473158129	0.003489333
	ENSDARG00000089397	-3.429903904	0.00182981
	ENSDARG00000089405	-3.236124238	0.021656254
CABZ01049540.1	ENSDARG00000069019	-3.226968994	0.048192475

	ENSDARG00000086751	-3.180533784	0.01214449
zgc:173652	ENSDARG00000070280	-3.162287552	0.004127008
si:ch211-262h13.5	ENSDARG00000070892	-3.158494025	0.031258726
tcap	ENSDARG00000007344	-3.151926018	0.003104998
zgc:158343	ENSDARG00000059679	-3.129545994	4.73E-05
DCSTAMP	ENSDARG00000078347	-3.105909016	0.01224747
CR388179.1	ENSDARG00000091677	-3.078938989	0.044221109
si:ch211-187d1.3	ENSDARG00000096029	-3.050790885	0.012098805
si:ch211-194e1.7	ENSDARG00000096449	-3.032337484	0.014965154
si:dkey-217f16.2	ENSDARG00000093487	-3.003373975	0.004949606
zgc:162154	ENSDARG00000079170	-3.000802399	0.008545042
zgc:174649	ENSDARG00000074907	-2.993169983	0.04744844
	ENSDARG00000039547	-2.974102468	0.028293031
	ENSDARG00000086591	-2.974071024	0.00663531
fosl1a	ENSDARG00000015355	-2.971460271	0.002174487
gckr	ENSDARG00000086620	-2.913853073	0.020487128
si:dkey-43b14.6	ENSDARG00000092292	-2.899132672	0.041886311
si:dkey-246j6.3	ENSDARG00000096113	-2.885081207	0.048638029
si:dkey-242k1.4	ENSDARG00000092239	-2.856352162	0.003590041
C7 (1 of 2)	ENSDARG00000057121	-2.838062476	8.33E-05
ZMAT1	ENSDARG00000058679	-2.798138548	6.38E-05
CABZ01059421.1	ENSDARG00000091707	-2.781604976	0.003836048
hsp70.3	ENSDARG00000021924	-2.776421523	0.000827714
fbn2a	ENSDARG00000051896	-2.734642269	0.007586735
si:dkeyp-101e12.1	ENSDARG00000089794	-2.728807911	0.021847029
btr04	ENSDARG00000060962	-2.724414772	0.004151428
CR392362.1	ENSDARG00000055424	-2.720190214	0.042031933
si:ch73-27e22.8	ENSDARG00000091269	-2.662548876	0.045221029
ucp3	ENSDARG00000091209	-2.637213176	0.000317853
si:ch1073-181h11.2	ENSDARG00000077336	-2.628828354	0.031790492
	ENSDARG00000078941	-2.628268774	0.022889055
MBLAC1	ENSDARG00000077314	-2.616844338	0.028619923
HIST1H2BA	ENSDARG00000074491	-2.592750645	0.017651483
si:dkey-162h11.2	ENSDARG00000091715	-2.588951376	0.018594256
si:ch211-229i10.10	ENSDARG00000090233	-2.586723195	0.02692417
CHRM1 (2 of 2)	ENSDARG00000009121	-2.568993215	0.048985518
si:ch211-197e7.1	ENSDARG00000095200	-2.541870135	0.033811221
ednrab	ENSDARG00000062262	-2.538007889	0.01714003
si:ch211-229i14.2	ENSDARG00000086048	-2.532431934	0.004123708
si:ch211-64i20.4	ENSDARG00000095198	-2.517283988	0.028677383
BX649328.1	ENSDARG00000091488	-2.49636038	0.022002373
gdf2	ENSDARG00000059173	-2.479952544	0.032620606
pdk2	ENSDARG00000059054	-2.45952154	0.000339766
lama2	ENSDARG00000022013	-2.456245102	0.002477151
arg1	ENSDARG00000071703	-2.450504664	0.022712615
mknk2b	ENSDARG00000015164	-2.444047819	0.005848558
si:dkey-31e10.6	ENSDARG00000096564	-2.438500579	0.043456033
mcm5	ENSDARG00000092362	-2.43802585	0.005275693
CU694757.1	ENSDARG00000035765	-2.424066187	0.049226821
egln3	ENSDARG00000032553	-2.423487753	0.003267895

arrdc2	ENSDARG00000020761	-2.375884388	0.000183415
F2RL2 (1 of 2)	ENSDARG00000079472	-2.367363189	0.043399754
zgc:194242	ENSDARG00000079532	-2.346364125	0.024668123
AL953907.2	ENSDARG00000070510	-2.337106836	0.003477675
ZGC:174006	ENSDARG00000029688	-2.327560994	0.005593078
ch25h	ENSDARG00000045190	-2.316799276	0.01048103
FGFBP1 (2 of 2)	ENSDARG00000039963	-2.305988293	0.011533016
Metazoa_SRP	ENSDARG00000086164	-2.304211407	0.029534152
si:dkey-11p10.11	ENSDARG00000096452	-2.300431283	0.039537637
pcdh2g6	ENSDARG00000071891	-2.277814392	0.013580538
txnipa	ENSDARG00000036107	-2.260021533	0.000498976
tek	ENSDARG00000028663	-2.258953433	0.000456423
mir454b	ENSDARG00000081232	-2.249953899	0.030371067
	ENSDARG00000070289	-2.225839611	0.037923355
si:dkey-237g15.2	ENSDARG00000075315	-2.21700408	0.008330362
tmprss3a	ENSDARG00000090562	-2.214411797	0.035646422
cebpb	ENSDARG00000042725	-2.210051653	0.000302261
GPR116 (3 of 6)	ENSDARG00000086445	-2.209736433	0.001243331
igfbp1a	ENSDARG00000014947	-2.205267542	0.00050804
C5H8orf4 (1 of 2)	ENSDARG00000079497	-2.204960033	0.001383554
CU855779.1	ENSDARG00000012388	-2.204249221	0.002959062
CR936975.4	ENSDARG00000094836	-2.199317501	0.006410271
nr1d4b	ENSDARG00000059370	-2.197206932	0.015223292
lgsn	ENSDARG00000007715	-2.194723694	0.039097957
dusp1	ENSDARG00000007628	-2.19347144	0.002291665
aqp8b	ENSDARG00000015512	-2.187259572	0.042932226
zp3a.2	ENSDARG00000042130	-2.186983508	0.032060083
TIMP4	ENSDARG00000090394	-2.181180982	0.012878575
si:ch211-214p16.2	ENSDARG00000094975	-2.172674451	0.010119072
cyr61	ENSDARG00000023062	-2.171330763	0.001808597
nr1d4a	ENSDARG00000031161	-2.152286922	0.049742265
nkx3-1	ENSDARG00000078280	-2.145847125	0.037366197
ABCC6 (3 of 3)	ENSDARG00000094901	-2.142387176	0.001818663
	ENSDARG00000091066	-2.140348117	0.029254214
CABZ01038493.1	ENSDARG00000090901	-2.139142893	0.018513932
CU681855.1	ENSDARG00000091299	-2.13522746	0.029980477
si:ch211-11p18.1	ENSDARG00000077068	-2.13409373	0.040993429
CABZ01010194.2	ENSDARG00000090869	-2.132650485	0.035128488
zgc:153258	ENSDARG00000076839	-2.122216009	0.005498321
CU019646.2	ENSDARG00000091234	-2.121687532	0.005420654
bfsp2	ENSDARG00000011998	-2.114989477	0.042073745
CRYGB	ENSDARG00000093318	-2.109795218	0.038170325
igfbp1b	ENSDARG00000038666	-2.102958762	0.024471405
pck1	ENSDARG00000013522	-2.098308644	8.62E-08
CABZ01066439.2	ENSDARG00000090399	-2.098292431	0.035986426
si:dkey-217f16.1	ENSDARG00000089602	-2.095291177	0.007782418
crygm1	ENSDARG00000016421	-2.094145906	0.039197127
zgc:153219	ENSDARG00000054054	-2.091159555	0.046572251
txnipb	ENSDARG00000070000	-2.090518914	5.26E-05
si:ch211-214p13.3	ENSDARG00000087403	-2.089422861	0.021507972

CU570691.1	ENSDARG00000088908	-2.081995085	0.0266262
ndrg1b	ENSDARG00000010420	-2.079426599	0.034368131
stc1l	ENSDARG00000058476	-2.076964462	0.018930526
il1rl1	ENSDARG00000068609	-2.062110513	0.045584767
	ENSDARG00000095115	-2.060908299	0.033997935
SUSD1 (1 of 2)	ENSDARG00000058839	-2.051455245	0.018369734
	ENSDARG00000091728	-2.051442152	0.004280361
si:ch73-18b11.2	ENSDARG00000094978	-2.048593281	0.016277759
rhcga	ENSDARG00000003203	-2.047712212	0.004561745
slc43a2b	ENSDARG00000061120	-2.035996053	1.14E-08
CABZ01103858.1	ENSDARG00000089996	-2.022010019	0.009128616
ddit4	ENSDARG00000037618	-2.016597928	0.001307933
cryaa	ENSDARG00000053502	-2.007019175	0.049330328
CDH19	ENSDARG00000074991	-2.002722353	0.001667972
	ENSDARG00000091265	-1.991766492	0.000457485
BX284672.1	ENSDARG00000079924	-1.988640251	0.011838126
wu:fe38f03	ENSDARG00000089737	-1.98636283	0.047382781
CR385063.1	ENSDARG00000044212	-1.982840145	0.015530469
PPP1R27 (1 of 2)	ENSDARG00000060265	-1.981595883	3.01E-05
jund	ENSDARG00000067850	-1.980885595	0.017435052
si:dkey-145c18.6	ENSDARG00000092709	-1.980804402	0.034572686
CABZ01049362.1	ENSDARG00000073932	-1.975063945	0.014878048
il1b	ENSDARG00000005419	-1.970510661	0.001544536
C8H1orf222	ENSDARG00000075917	-1.966134732	0.021283818
si:dkey-267i17.3	ENSDARG00000094450	-1.962024257	0.009557553
arrdc3b	ENSDARG00000036028	-1.959343134	0.003633475
jak3	ENSDARG00000010252	-1.950321256	0.040702709
kif17	ENSDARG00000055238	-1.950086103	0.031414592
f2rl1.2	ENSDARG00000077540	-1.94801928	0.004048417
cldnb	ENSDARG00000009544	-1.945396475	6.92E-05
SPINK2 (1 of 4)	ENSDARG00000071808	-1.943871223	0.026077132
CR854881.4	ENSDARG00000089990	-1.939896501	0.039734659
si:ch211-108c6.2	ENSDARG00000090682	-1.939064506	0.018397911
asb13a.2	ENSDARG00000045765	-1.937356788	0.049802558
crybb1l2	ENSDARG00000016793	-1.936466984	0.034293961
si:dkey-61d19.4	ENSDARG00000092084	-1.933135245	0.002548627
si:dkey-21e2.15	ENSDARG00000092788	-1.930536941	0.000885325
si:dkeyp-51f12.2	ENSDARG00000095606	-1.923818385	0.027727421
VWA5A (2 of 4)	ENSDARG00000088917	-1.921387081	0.032970047
BX004816.2	ENSDARG00000056461	-1.914803364	0.048814566
slc2a5	ENSDARG00000077875	-1.912301313	0.002184703
histh1l	ENSDARG00000035519	-1.907642373	0.030634002
serpine1	ENSDARG00000056795	-1.905756788	0.001592512
RETSAT (2 of 2)	ENSDARG00000070140	-1.900366337	0.018223658
ERRFI1 (2 of 2)	ENSDARG00000086098	-1.900064188	0.000713217
cebpd	ENSDARG00000087303	-1.894790852	0.000123368
ptgs2b	ENSDARG00000010276	-1.894393177	0.046165749
CR318595.2	ENSDARG00000069362	-1.890042552	0.043135491
atf3	ENSDARG00000007823	-1.872607356	0.028057752
crygmx12	ENSDARG00000074001	-1.870822267	0.048871362

CR385078.2	ENSDARG00000088490	-1.870228026	0.01575711
zgc:136220	ENSDARG00000036140	-1.869218274	0.028182255
si:dkey-24p1.6	ENSDARG00000028784	-1.866416723	0.00743492
C13H10orf71 (1 of 2)	ENSDARG00000086970	-1.865020323	0.038366079
diabloa	ENSDARG00000035323	-1.862872294	0.000167075
si:dkey-54i3.3_2	ENSDARG00000093652	-1.860900447	0.011285986
kcna6	ENSDARG00000046014	-1.859190851	0.006989883
BX005256.1	ENSDARG00000040284	-1.858842335	0.042349817
C6H2orf40 (1 of 2)	ENSDARG00000088717	-1.853261846	0.001108722
fos	ENSDARG00000031683	-1.851866288	0.017178272
slc4a1b	ENSDARG00000024560	-1.840873498	0.008397197
dynlt1	ENSDARG00000045909	-1.840726184	8.68E-05
PDE6H	ENSDARG00000056791	-1.839398644	0.022506807
	ENSDARG00000086076	-1.832468224	0.038211704
ITGAL	ENSDARG00000044670	-1.830754594	0.015806823
stmn4l	ENSDARG00000043932	-1.830507606	0.011883431
CABZ01090041.1	ENSDARG00000034667	-1.829865299	0.048933358
pim2	ENSDARG00000059001	-1.827688025	1.91E-05
ankrd22	ENSDARG00000002298	-1.825761319	0.001682851
capn3	ENSDARG00000041864	-1.819928262	0.047298217
DUSP8 (2 of 2)	ENSDARG00000039232	-1.818568805	0.010611465
BX001033.2	ENSDARG00000090375	-1.818193741	0.037808481
cryba2a	ENSDARG00000030349	-1.817744877	0.03621166
trib3	ENSDARG00000016200	-1.817104524	0.002018673
EGR3	ENSDARG00000089156	-1.81635819	0.001114296
BX927130.1	ENSDARG00000087963	-1.806644505	0.035079325
ctgfa	ENSDARG00000042934	-1.801142057	0.000252446
MAL (3 of 3)	ENSDARG00000070401	-1.799573232	0.033877078
si:ch1073-280h16.1	ENSDARG00000078752	-1.796716157	0.030392326
AC024175.17	ENSDARG00000082753	-1.79461983	0.012883906
ADM (1 of 2)	ENSDARG00000015263	-1.794331723	0.000183546
cideb	ENSDARG00000012640	-1.79426999	0.012356428
rasd1	ENSDARG00000019274	-1.793144824	0.001241853
mcl1b	ENSDARG00000008363	-1.79303887	3.99E-05
FAM26E (1 of 2)	ENSDARG00000012726	-1.791196524	0.017404697
stk35	ENSDARG00000086899	-1.790936033	0.029097219
si:ch211-199m9.2	ENSDARG00000093980	-1.788894427	0.024295656
gadd45ba	ENSDARG00000027744	-1.784172977	0.002621223
ggt1a	ENSDARG00000023526	-1.784166291	0.042845836
PPP1R15A	ENSDARG00000069135	-1.781474339	0.007888906
mbd2	ENSDARG00000075952	-1.779047134	0.003879435
cryba4	ENSDARG00000024548	-1.776712908	0.0301439
CR558302.2	ENSDARG00000055014	-1.776277215	0.004918216
nudt19	ENSDARG00000077537	-1.772199113	0.03698623
slc16a9a	ENSDARG00000013926	-1.771132683	0.001458519
arg2	ENSDARG00000039269	-1.770067877	0.012606294
jun	ENSDARG00000043531	-1.769296383	0.000513067
s1pr3	ENSDARG00000042470	-1.76611884	0.033737061
adprh1	ENSDARG00000041589	-1.765492257	0.012875124
slc13a2	ENSDARG00000053853	-1.764602391	5.98E-07

IER2	ENSDARG00000086881	-1.763028893	0.003706911
CABZ01057488.2	ENSDARG00000087092	-1.761978333	0.045189648
si:dkey-239n17.6	ENSDARG00000095848	-1.761469726	0.049216201
si:dkey-117n7.5	ENSDARG00000089640	-1.75778912	0.014810886
ca15a	ENSDARG00000015654	-1.757052838	0.001848522
si:ch211-154k18.1	ENSDARG00000094257	-1.756218784	0.041703525
SSX2IP (2 of 2)	ENSDARG00000061602	-1.754160269	0.017756471
ugp2a	ENSDARG00000005578	-1.750612905	0.040611626
si:ch211-173n18.4	ENSDARG00000060889	-1.749847556	0.003085786
nfil3-2	ENSDARG00000043237	-1.746009542	0.014343465
si:ch211-192f15.3	ENSDARG00000093331	-1.744869734	0.040263604
btg2	ENSDARG00000020298	-1.743161916	0.003919687
zgc:92594	ENSDARG00000089517	-1.740696099	0.015100031
junbb	ENSDARG00000088371	-1.739694788	0.001621756
CASKIN2 (2 of 4)	ENSDARG00000043818	-1.739614552	0.00109769
nrl	ENSDARG00000044013	-1.735290607	0.035332604
h1fx	ENSDARG00000054058	-1.735200701	0.007983303
ankrd9	ENSDARG00000028804	-1.734336984	0.000130156
si:ch211-214b16.3	ENSDARG00000089079	-1.732233569	0.017855039
socs3a	ENSDARG00000025428	-1.732145269	0.026565791
ms4a17a.1	ENSDARG00000043798	-1.725371934	0.008188423
rgs13	ENSDARG00000017653	-1.724944616	0.020970659
zgc:73324	ENSDARG00000009040	-1.719599899	3.94E-05
CU469509.3	ENSDARG00000090969	-1.711757056	0.042720593
	ENSDARG00000070331	-1.708710707	0.031791282
paics	ENSDARG00000033539	-1.708202403	0.000228747
zgc:91849	ENSDARG00000014323	-1.707485202	0.007350401
si:ch1073-467m9.2	ENSDARG00000094409	-1.707385379	0.000652687
mipb	ENSDARG00000013963	-1.703741479	0.049808578
klf9	ENSDARG00000068194	-1.701106151	0.028121941
gcga	ENSDARG00000079296	-1.69800759	0.000360708
pfkfb3	ENSDARG00000001953	-1.694624877	0.016402133
FNDC7 (4 of 7)	ENSDARG00000092813	-1.692955078	0.000973206
si:ch211-255g12.6	ENSDARG00000094310	-1.691781087	0.04819545
	ENSDARG00000070170	-1.690393229	0.008727703
rgcc	ENSDARG00000035810	-1.687978372	8.74E-05
creb3l3	ENSDARG00000056226	-1.684985461	0.000550639
si:ch211-129c21.1	ENSDARG00000024775	-1.683726427	0.000108766
TPRX1	ENSDARG00000088885	-1.682258693	0.005469576
crygm2d14	ENSDARG00000087301	-1.681815732	0.038351784
gbp2	ENSDARG00000038669	-1.677570211	0.016269526
ptgs2a	ENSDARG00000004539	-1.672986462	0.026986484
si:ch211-214b16.4	ENSDARG00000074345	-1.668463401	0.005470308
mapkapk2b	ENSDARG00000018530	-1.667238224	0.036389505
zfpml	ENSDARG00000041572	-1.667206797	0.000350102
f10	ENSDARG00000088581	-1.667059801	4.17E-05
atp1b1b	ENSDARG00000076833	-1.666074016	0.000554405
znf395a	ENSDARG00000060113	-1.665428133	0.002926679
CABZ01087088.1	ENSDARG00000089630	-1.665397835	0.014158407
PI16	ENSDARG00000046021	-1.664903425	0.040593754

CABZ01069576.1	ENSDARG00000087722	-1.663908386	0.027868063
AADAT	ENSDARG00000011410	-1.663442725	0.014465076
znf804a	ENSDARG00000027079	-1.663371532	0.011823472
myoz3a	ENSDARG00000067701	-1.662503834	0.004182542
sod3a	ENSDARG00000070168	-1.661737418	0.005399073
si:dkey-224e22.2	ENSDARG00000034941	-1.6616276	0.013966104
SIK1	ENSDARG00000058606	-1.661087796	0.006781324
gpr39	ENSDARG00000042939	-1.656224023	0.036388063
INHBE	ENSDARG00000040780	-1.654875563	0.035758866
sgk1	ENSDARG00000025522	-1.654315001	0.002669583
f5	ENSDARG00000055705	-1.650425382	0.011977525
col7a11	ENSDARG00000069692	-1.644935481	0.001230405
dhrs13a.2	ENSDARG00000020978	-1.643841796	0.006828288
CD44 (2 of 2)	ENSDARG00000087863	-1.640989148	0.043185196
DRD5 (1 of 2)	ENSDARG00000090669	-1.639714839	0.036151051
anpepa	ENSDARG00000041083	-1.639185673	0.02746067
homez	ENSDARG00000054304	-1.637665747	0.006677319
f3b	ENSDARG00000005673	-1.63715512	0.028748432
slc34a2a	ENSDARG00000012903	-1.636801558	0.028703553
junba	ENSDARG00000074378	-1.635590034	0.026339901
si:dkey-27j5.5	ENSDARG00000026383	-1.634254987	0.04697529
noxo1a	ENSDARG00000041294	-1.632816572	0.02621717
gc	ENSDARG00000089310	-1.630925514	0.00017998
mmp9	ENSDARG00000042816	-1.630451125	0.014932326
PPAPDC3 (2 of 2)	ENSDARG00000052033	-1.629052136	0.048944799
hsp90aa1.2	ENSDARG00000024746	-1.622217554	0.010206765
C3 (3 of 9)	ENSDARG00000043719	-1.621902294	0.00011741
nfil3-5	ENSDARG00000094965	-1.621461084	0.012641573
csrnp1a	ENSDARG00000031426	-1.621350523	0.000757748
tm4sf18	ENSDARG00000060668	-1.621170173	0.043266742
si:dkey-182g1.6	ENSDARG00000055831	-1.6211232	0.033929503
helb	ENSDARG00000053127	-1.620457937	0.014931499
cacng6b	ENSDARG00000046079	-1.620324356	0.003509751
klf3	ENSDARG00000015495	-1.612374849	0.005351267
cyp2aa9	ENSDARG00000070020	-1.612187476	0.002242523
klf11b	ENSDARG00000013794	-1.611079387	0.000210918
snx22	ENSDARG00000053204	-1.609164083	0.020871143
CABZ01064941.1	ENSDARG00000079066	-1.609028876	0.003492154
irf6	ENSDARG00000043296	-1.608427342	0.000644547
si:ch211-244h7.2	ENSDARG00000093207	-1.607965948	0.003385982
si:ch211-212n6.18	ENSDARG00000086917	-1.605556112	0.013277342
kcnj1a.1	ENSDARG00000091232	-1.603145515	0.002636244
dcdc2b	ENSDARG00000053744	-1.603021742	0.035571241
epd11	ENSDARG00000076386	-1.600395706	8.30E-05
g6pca.1	ENSDARG00000031616	-1.599964376	0.001586843
crygm2d5	ENSDARG00000069792	-1.597765225	0.044585984
CR792456.1	ENSDARG00000022101	-1.596920539	0.033199013
ARHGAP40	ENSDARG00000074625	-1.596507113	0.024019812
zgc:162608	ENSDARG00000069375	-1.59557981	0.000101809
arrdc3a	ENSDARG00000052690	-1.594356063	0.019467027

ctsl.1	ENSDARG00000003902	-1.593071833	0.000838549
kcni1a.5	ENSDARG00000089060	-1.592966605	0.007307798
ADM (2 of 2)	ENSDARG00000069027	-1.592767242	0.011822358
si:dkey-31n13.3	ENSDARG00000095251	-1.59164144	0.041197006
xirp2a	ENSDARG00000071113	-1.590979222	0.00850097
twf2b	ENSDARG00000009727	-1.590742563	0.037688647
THBS1 (2 of 2)	ENSDARG00000063430	-1.588030306	0.000257192
CU469585.1	ENSDARG00000003077	-1.58748256	0.024178843
hal	ENSDARG00000017444	-1.587402092	0.000143774
CR354540.2	ENSDARG00000019318	-1.586750119	0.033458453
mpp1	ENSDARG00000031475	-1.586115105	4.50E-05
sord	ENSDARG00000053405	-1.58381808	0.007712031
ctssb.1	ENSDARG00000074656	-1.582667642	0.015630469
mknk2a	ENSDARG00000011373	-1.581031447	0.018862306
socs1a	ENSDARG00000038095	-1.580827686	0.046244934
smad6a	ENSDARG00000053209	-1.580743587	0.031103786
fam222a	ENSDARG00000090797	-1.575680188	0.00592223
mlc1	ENSDARG00000063026	-1.575522603	0.046359394
actr3b	ENSDARG00000008790	-1.572943443	0.006487141
CU855895.3	ENSDARG00000086705	-1.572659593	0.020626404
sesn1	ENSDARG00000020693	-1.572068289	0.000882905
wu:fb55g09	ENSDARG00000088449	-1.566383025	0.001315005
PREX2	ENSDARG00000071692	-1.562373572	0.002012429
btr12	ENSDARG00000051809	-1.559630736	0.01062676
ubb	ENSDARG00000093313	-1.556790744	0.000441365
ubald1b	ENSDARG00000020976	-1.555392518	0.001856994
gadd45bb	ENSDARG00000013576	-1.55474148	0.010369614
mipa	ENSDARG00000037285	-1.554591237	0.023668882
crygm2d3	ENSDARG00000088823	-1.553025139	0.040425913
si:dkey-21e.16	ENSDARG00000094077	-1.54976972	0.041479347
si:ch211-212n6.17	ENSDARG00000087765	-1.546148751	0.041163641
lim2.3	ENSDARG00000037402	-1.545696474	0.031525671
egln2	ENSDARG00000062562	-1.544939023	0.035185708
phlda2	ENSDARG00000042874	-1.544743512	0.000943177
rnf183	ENSDARG00000068851	-1.543379757	0.003849478
mmp13a	ENSDARG00000012395	-1.542287578	0.003839017
CYSTM1	ENSDARG00000073961	-1.541006517	0.038187217
bhlhe40	ENSDARG00000004060	-1.540815446	0.019331288
clcn1b	ENSDARG00000012269	-1.54055004	0.039915045
vgl12b	ENSDARG00000053773	-1.539252659	0.001562356
dio3b	ENSDARG00000095767	-1.538586291	0.036723099
angptl4	ENSDARG00000035859	-1.53707413	0.000135225
GPR64 (2 of 2)	ENSDARG00000088937	-1.537010494	0.043242964
irf2bp2b	ENSDARG00000006275	-1.536594784	0.000209019
si:dkey-33i11.4	ENSDARG00000092899	-1.535850475	0.00222212
5S_rRNA	ENSDARG00000085267	-1.534818263	0.007133595
CABZ01086597.1	ENSDARG00000088304	-1.533792511	0.007211801
foxq1a	ENSDARG00000030896	-1.533663004	0.005229431
VIP2	ENSDARG00000079443	-1.53176773	0.028026342
SMC6	ENSDARG00000091821	-1.531039077	0.035316969

g6pc3	ENSDARG00000020371	-1.530490869	0.040723797
si:ch211-241e1.3	ENSDARG00000022615	-1.529682696	0.023792406
kcnj1a.4	ENSDARG00000090635	-1.528320386	0.00910438
egr1	ENSDARG00000037421	-1.528148323	0.001425572
CU367845.1	ENSDARG00000071384	-1.527182597	0.031136279
nr4a3	ENSDARG00000055854	-1.526679614	0.001163647
trim63	ENSDARG00000028027	-1.5245449	0.000441153
amotl2b	ENSDARG00000061948	-1.523936529	0.001127666
TRPM4 (3 of 3)	ENSDARG00000063435	-1.523409714	0.041218737
CYP27B1	ENSDARG00000045015	-1.52273046	0.046016971
nr2e3	ENSDARG00000045904	-1.521583037	0.043872306
cep851	ENSDARG00000093883	-1.521362094	0.013690033
btbd7	ENSDARG00000003069	-1.520155837	0.024893985
zgc:154054	ENSDARG00000079103	-1.519178344	0.00428846
elp4	ENSDARG00000008852	-1.519155189	0.012564065
kcne4	ENSDARG00000068257	-1.518251448	0.017784807
CABZ01040055.1	ENSDARG00000086869	-1.517091434	0.043907086
si:dkeyp-69b9.3	ENSDARG00000088881	-1.516871004	0.000940301
nr1d2a	ENSDARG00000003820	-1.516135562	0.018379719
DBNDD1	ENSDARG00000090108	-1.515731558	0.043926627
cp	ENSDARG00000010312	-1.515005279	0.012804922
STON1	ENSDARG00000063670	-1.512981394	0.002482777
tgm1	ENSDARG00000017799	-1.51147668	0.010323487
si:dkey-117n7.2	ENSDARG00000093135	-1.511093431	0.026931267
CU639413.2	ENSDARG00000075426	-1.509185598	0.041000851
foxd3	ENSDARG00000021032	-1.508054114	0.002772146
BX664614.1	ENSDARG00000095311	-1.508054114	0.002772146
MAN2B2	ENSDARG00000079463	-1.504899461	0.007216601
plekhn1	ENSDARG00000087844	-1.504063538	0.006627441
CLEC4M	ENSDARG00000059049	-1.502833866	0.004633478
GLDC	ENSDARG00000035120	-1.502181957	0.000711889
odc1	ENSDARG00000007377	-1.501117759	0.000363571