

Supplemental Data

Ligand-specific transcriptional mechanisms underlie aryl hydrocarbon receptor-mediated developmental toxicity of oxygenated PAHs

Goodale, B.C.* †, La Du, J. *, Tilton, S.C.* ‡, Sullivan, C.M.* §, Bisson, W.H. *, Waters, K.M. ‡ and Tanguay, R.L.*

*Department of Environmental and Molecular Toxicology, the Environmental Health Sciences Center, Oregon State University, Corvallis, OR, 97330

†Department of Microbiology and Immunology, Geisel School of Medicine at Dartmouth, 604 Renssen Bldg, Hanover, NH 03755

‡Computational Biology and Bioinformatics, Pacific Northwest National Laboratory, 902 Battelle Blvd, Richland, WA 99354

§Center for Genome Research and Biocomputing, Oregon State University, Corvallis, OR, 97330

Legends for Supplementary Data

Table S1:

Primer sequences used for qRT-PCR

Table S2:

Genes identified by RNA-seq as significantly differentially expressed in 48 hpf embryos exposed to 10 μ M 7,12-B[a]AQ compared to Control ($p < 0.05$).

Table S3:

Genes identified by RNA-seq as significantly differentially expressed in 48 hpf embryos exposed to 10 μ M BEZO compared to Control ($p < 0.05$).

Table S4:

Comparison of qRT-PCR and RNA-seq log₂ fold change values of genes differentially induced by OPAHs.

Figure S1: Cyp1a reporter zebrafish exposed to 7,12-B[a]AQ, BEZO or Control, imaged at 72 hpf.

A) Cyp1a reporter embryos exposed to 10 μ M 7,12-B[a]AQ, showed strong fluorescence throughout the vasculature and heart (227 ms exposure, 9 slices, 2x2 binning). With increased exposure time, yolk syncytial layer, otic vesical, eye, skin and limited vasculature is seen in μ M BEZO (1260 ms exposure, 6 slices, 2x2 binning). DMSO controls had dim expression in skin and otic vesicle (3260 ms exposure, 1 slice, 2x2 binning).

Figure S2:

qRT-PCR timecourse of *ctsl1* expression in 7,12-B[a]AQ, BEZO and Control – exposed embryos from 6-72 hpf. Data represent 3 biological replicates analyzed by two-way ANOVA with Tukey's posthoc test. Significantly different induction is designated with different letters ($p < 0.05$).

Table S1: Primers used for qRT-PCR analysis

Gene	Ensembl ID	Forward Primer (5'- 3')	Reverse Primer (5'- 3')
<i>arg2</i>	ENSDARG00000039269	AACGGCGGACTGACCTAC	CCAGAGCGGATGCAACTA
<i>β-actin</i>	ENSDARG00000037746	AAGCAGGAGTACGATGAGTC	TGGAGTCCTCAGATGCATTG
<i>cyp1a</i>	ENSDARG00000026039	TGCCGATTCATCCCTTCC	AGAGCCGTGCTGATAGTGTC
<i>cyp1b1</i>	ENSDARG00000068934	CTGCATTGATTTCCGAGACGTG	CACACTCCGTGTTGACAGC
<i>ctgfb</i>	ENSDARG00000070586	TGTAACCAATGACAATGAGC	CATCCAGACAACCGAAACG
<i>ctsl.1</i>	ENSDARG00000003902	GGACTCCTACCCCTATGAAG	ATAACCAACAGCCAGAACAC
<i>cxcr4a</i>	ENSDARG00000057633	ACACGGTAAACTTGTACAGC	ATGTGACAAACGAGTCCTG
<i>gstp2</i>	ENSDARG00000057338	TCTGGACTCTTTCCCGTCTCTCAA	ATCACTGTTTTGCCGTTGCCGT
<i>igfbpa</i>	ENSDARG00000014947	AAGCGGTGTGCACCGAGAGC	CCCGGTCACGAACACGGTGG
<i>ponzr4</i>	ENSDARG00000087440	GCTGTATTCCTCCAATCAGC	CCTTGCCTTCATCTCTCGTC
<i>p53</i>	ENSDARG00000035559	CTCTCCACCAACATCCACT	ACGTCCACCACCATTGAAAC
<i>s100z</i>	ENSDARG00000038729	GATCACCGTCTTCCACAAC	GTCCTTCTGAGACATGAGG
<i>wfikkn1</i>	ENSDARG00000044671	TATGCACACACAGTCAACAC	GGACTCATTTACCTGTTCGAG

Table S2:

Genes identified by RNA-seq as significantly differentially expressed in 48 hpf embryos exposed to 10 μ M 7,12-B[a]AQ compared to Control ($p < 0.05$).

Ensembl ID	log2FC	PValue	Gene
ENSDARG000000026	7.84903111		0 cyp1a
ENSDARG000000078	7.61980667	4.32E-05	BX323563.1
ENSDARG000000044	4.97268108	2.57E-25	WFIKKN1
ENSDARG000000058	4.88762984		0 cyp1c1
ENSDARG000000087	4.81315551	5.42E-05	zgc:173962
ENSDARG000000018	4.53557691	7.46E-264	cyp1c2
ENSDARG000000052	4.14356046	6.85E-29	ahrrb
ENSDARG000000059	4.07337152	1.23E-34	fgf7
ENSDARG000000068	3.64986257	1.25E-181	cyp1b1
ENSDARG000000091	3.63642805	8.36E-07	lepa
ENSDARG000000057	2.96630342	3.02E-13	gstp2
ENSDARG000000088	2.89597767	1.14E-05	CABZ01045617.1
ENSDARG000000087	2.88302257	1.45E-08	PTGR1 (2 of 2)
ENSDARG000000093	2.83696303	4.59E-10	pth1a
ENSDARG000000037	2.70609069	1.88E-07	WIPI1 (2 of 2)
ENSDARG000000073	2.70566051	2.23E-06	si:ch211-202h22.7
ENSDARG000000076	2.65451045	2.35E-13	si:ch211-14a17.10
ENSDARG000000093	2.6062234	4.31E-06	FP015791.1
ENSDARG000000089	2.54959173	0.00017881	RNaseP_nuc
ENSDARG000000003	2.490155	2.45E-20	ctsl.1
ENSDARG000000007	2.37785348	2.39E-19	tcap
ENSDARG000000005	2.36131602	4.38E-127	gstp1
ENSDARG000000015	2.35148892	8.62E-10	fosl1a
ENSDARG000000070	2.30118991	1.28E-05	cyp24a1
ENSDARG000000096	2.21220323	1.83E-06	ved
ENSDARG000000028	2.1696794	2.65E-24	TPMT (2 of 2)
ENSDARG000000088	2.16206104	0.00279478	cox5aa
ENSDARG000000074	2.07239322	1.05E-12	DHRS13 (2 of 5)
ENSDARG000000022	2.05716958	9.23E-15	ocstamp
ENSDARG000000058	2.01885586	6.26E-77	prdx1
ENSDARG000000086	2.01884874	4.37E-71	sult6b1
ENSDARG000000061	2.01789021	8.01E-63	zgc:158614
ENSDARG000000059	2.01496933	2.28E-05	slc25a38a
ENSDARG000000079	1.98483243	0.00136466	si:dkey-204l11.1
ENSDARG000000061	1.97960792	3.12E-52	CABZ01041812.1
ENSDARG000000038	1.94908237	3.34E-13	s100z
ENSDARG000000078	1.87404723	2.41E-12	si:ch211-202h22.8
ENSDARG000000088	1.87306952	0.00013601	CABZ01111936.2
ENSDARG000000031	1.87184424	4.86E-08	fos
ENSDARG000000019	1.87010623	3.44E-72	gsr

ENSDARG00000016	1.86130419	4.82E-11	dhrs13l1
ENSDARG00000055	1.81999588	7.49E-19	TPMT (1 of 2)
ENSDARG00000075	1.80414139	8.39E-80	sqstm1
ENSDARG00000021	1.77075226	1.35E-70	cbr1l
ENSDARG00000056	1.74836649	5.74E-54	pir
ENSDARG00000086	1.7481652	0.00203091	sult2st1
ENSDARG00000077	1.74682067	9.07E-06	slc2a5
ENSDARG00000089	1.73523314	4.77E-34	sepw2b
ENSDARG00000086	1.72599388	1.48E-25	CABZ01067657.1
ENSDARG00000078	1.71830083	5.96E-09	zgc:194125
ENSDARG00000071	1.71682187	0.00035353	si:dkey-19a16.5
ENSDARG00000012	1.70328246	6.82E-11	mmp13a
ENSDARG00000034	1.69169076	7.94E-22	nt5c2l1
ENSDARG00000044	1.68333274	1.58E-23	nr0b2a
ENSDARG00000002	1.68222072	3.02E-06	psme1
ENSDARG00000073	1.67273278	7.07E-13	mamdc2b
ENSDARG00000069	1.66534587	0.00186959	KLF10
ENSDARG00000058	1.64822279	0.00141099	TRIM40
ENSDARG00000071	1.6180329	1.20E-30	TSTD1
ENSDARG00000069	1.60654728	0.00181633	zgc:153151
ENSDARG00000079	1.59828765	3.35E-05	BX511021.4
ENSDARG00000031	1.58626275	3.00E-06	wu:fl09a04
ENSDARG00000089	1.57553132	1.37E-14	si:dkey-3d18.4
ENSDARG00000091	1.5638271	1.26E-20	CR926130.2
ENSDARG00000002	1.56364859	8.77E-11	hsqb11
ENSDARG00000003	1.56134146	1.54E-05	sult1st5
ENSDARG00000067	1.55313561	6.05E-30	im:7150988
ENSDARG00000015	1.53494358	0.00350069	SH2D4B (1 of 2)
ENSDARG00000035	1.52867799	5.48E-07	cyr61l1
ENSDARG00000033	1.51624483	1.05E-34	gsto2
ENSDARG00000092	1.51296744	0.00319385	metap2b
ENSDARG00000094	1.48606486	0.00030539	si:ch211-214p16.2
ENSDARG00000030	1.48413123	5.51E-09	foxq1a
ENSDARG00000089	1.48075959	4.91E-16	AL844567.2
ENSDARG00000057	1.47704667	7.47E-08	tmprss13a
ENSDARG00000026	1.47390167	2.41E-05	si:ch211-285c6.3
ENSDARG00000005	1.45496789	2.97E-14	ethe1
ENSDARG00000056	1.41561088	3.39E-11	serpine1
ENSDARG00000040	1.41206525	0.00453705	KLHL38 (2 of 2)
ENSDARG00000020	1.40598443	9.52E-05	jdp2
ENSDARG00000092	1.40073506	0.00030939	si:ch211-114l13.11

ENSDARG00000089	1.3843675	4.46E-55	ugt1b4
ENSDARG00000094	1.37345707	6.23E-15	zgc:109934
ENSDARG00000044	1.36664414	8.88E-25	hpdb
ENSDARG00000090	1.35486753	0.00145475	SEMA7A
ENSDARG00000014	1.35435001	2.34E-40	AOC2
ENSDARG00000079	1.35293465	2.79E-14	zgc:173594
ENSDARG00000078	1.33639854	0.0053363	nkx3-1
ENSDARG00000002	1.32925228	0.00393051	RNF14 (4 of 5)
ENSDARG00000090	1.32858642	1.13E-10	ALPK3 (2 of 2)
ENSDARG00000069	1.32254004	1.73E-08	bbc3
ENSDARG00000075	1.32236546	8.52E-12	CYLC2
ENSDARG00000022	1.31969085	1.49E-08	aasdh
ENSDARG00000057	1.30475964	0.00360831	zgc:194252
ENSDARG00000079	1.30064074	2.56E-07	ftr39p
ENSDARG00000095	1.29818366	0.00394507	wu:fb37b09
ENSDARG00000077	1.29540601	9.75E-06	si:dkey-265k11.2
ENSDARG00000043	1.29061633	5.00E-21	MAL (2 of 3)
ENSDARG00000063	1.28973162	7.13E-08	arl14
ENSDARG00000094	1.28732706	8.21E-05	si:dkey-240n22.2
ENSDARG00000002	1.27479574	3.29E-17	si:ch211-225b11.1
ENSDARG00000055	1.2745362	7.27E-07	foxq1b
ENSDARG00000093	1.27043927	0.00196156	acy3.1
ENSDARG00000088	1.26140601	0.00164057	MUC4
ENSDARG00000033	1.26129397	2.90E-09	psme2
ENSDARG00000078	1.25623616	0.00167335	CR774195.2
ENSDARG00000060	1.25619833	0.0005804	SLC5A7 (2 of 2)
ENSDARG00000025	1.25556296	1.07E-08	abhd4
ENSDARG00000070	1.25050515	1.16E-11	txnipb
ENSDARG00000086	1.24975336	2.15E-05	CABZ01078634.1
ENSDARG00000014	1.23544061	0.00018919	dkk1a
ENSDARG00000053	1.23469757	9.98E-09	b2m
ENSDARG00000094	1.23095953	2.70E-07	si:ch211-229n2.7
ENSDARG00000073	1.22762329	1.87E-12	cdbl
ENSDARG00000006	1.22739041	1.24E-20	ugt1ab
ENSDARG00000069	1.22387315	0.00024149	atg12
ENSDARG00000039	1.22066939	0.00531045	atoh1c
ENSDARG00000007	1.21320614	7.97E-11	atf3
ENSDARG00000067	1.2090686	8.38E-20	myoz3a
ENSDARG00000055	1.20425364	2.00E-46	cyb5a
ENSDARG00000028	1.20232882	5.36E-24	htatip2
ENSDARG00000077	1.20229592	1.36E-06	-

ENSDARG00000061	1.19361893	1.35E-11	arpp21
ENSDARG00000018	1.18482981	7.56E-12	CU302436.1
ENSDARG00000078	1.15791128	4.93E-11	hspsb9
ENSDARG00000074	1.15762838	1.34E-05	ctssb.1
ENSDARG00000073	1.15424006	0.00087724	KCNK4
ENSDARG00000094	1.14646316	4.77E-14	si:dkeyp-1h4.9
ENSDARG00000092	1.1427679	1.03E-05	C18H15orf48
ENSDARG00000071	1.13852457	7.11E-10	ppp1r3ca
ENSDARG00000022	1.1284982	4.97E-11	MGST1 (1 of 2)
ENSDARG00000026	1.12104537	4.57E-05	slc48a1a
ENSDARG00000019	1.11977724	1.29E-07	acp5a
ENSDARG00000087	1.11829881	0.00029013	OLFM4 (2 of 2)
ENSDARG00000094	1.11828485	0.00097652	cplx4c
ENSDARG00000040	1.1164257	0.00425677	si:dkey-27n14.1
ENSDARG00000095	1.11632483	0.00028644	si:ch211-268b13.5
ENSDARG00000026	1.11623466	3.50E-05	MMEL1
ENSDARG00000076	1.10960368	0.00396034	si:dkey-266m15.5
ENSDARG00000087	1.10390533	2.46E-11	RAMP2 (1 of 2)
ENSDARG00000014	1.09963809	3.98E-13	igfbp1a
ENSDARG00000059	1.0958767	0.00024146	PAPPA (2 of 2)
ENSDARG00000058	1.08746022	1.35E-14	hgd
ENSDARG00000038	1.08600903	6.71E-05	cbx7a
ENSDARG00000075	1.08139005	0.00139093	mhc1uba
ENSDARG00000056	1.07648464	0.00213589	figf
ENSDARG00000070	1.07396582	0.00134647	GGACT (2 of 3)
ENSDARG00000039	1.06978268	8.35E-09	DUSP8 (2 of 2)
ENSDARG00000044	1.06539699	0.00028774	ccpg1
ENSDARG00000086	1.05697966	0.00156177	PRODH (3 of 3)
ENSDARG00000091	1.05576252	2.27E-27	pkhd11
ENSDARG00000032	1.05066528	2.35E-14	zgc:91887
ENSDARG00000089	1.04503891	0.00023815	UHRF2 (2 of 3)
ENSDARG00000063	1.03680656	2.54E-11	abcb6
ENSDARG00000023	1.03228796	5.02E-19	CREM
ENSDARG00000070	1.03167114	8.54E-15	cyp2aa9
ENSDARG00000031	1.02866252	5.03E-33	zgc:92066
ENSDARG00000087	1.02398163	4.00E-05	CABZ01087111.1
ENSDARG00000093	1.01936399	1.41E-38	zgc:193505
ENSDARG00000060	1.01845818	0.00479616	pip5kl1
ENSDARG00000076	1.01801299	1.81E-07	TCIRG1 (1 of 3)
ENSDARG00000089	1.01762654	3.54E-06	si:ch211-161h7.8
ENSDARG00000075	1.0106415	2.44E-05	ankrd1a

ENSDARG00000019	1.00344166	3.07E-08	pnp5b
ENSDARG00000092	1.00238665	5.38E-09	si:dkeyp-51b9.3
ENSDARG00000089	1.00163587	1.22E-05	ANPEP (5 of 5)
ENSDARG00000071	0.99374465	0.00163749	zgc:153154
ENSDARG00000061	0.9937318	3.29E-34	slc43a2b
ENSDARG00000070	0.98712663	3.72E-06	il6r
ENSDARG00000039	0.98541478	5.39E-09	fah
ENSDARG00000093	0.9838699	5.41E-17	si:ch211-217k17.9
ENSDARG00000010	0.98270287	0.00054997	ptgs2b
ENSDARG00000092	0.98241332	3.37E-05	si:dkey-147f3.5
ENSDARG00000086	0.97922146	0.00037367	si:ch211-236p5.2
ENSDARG00000087	0.97554502	6.99E-21	si:ch211-157c3.4
ENSDARG00000091	0.96916579	0.00470828	ucp3
ENSDARG00000088	0.95755288	0.00144579	MDP1
ENSDARG00000079	0.95653557	0.00396799	CR790363.1
ENSDARG00000083	0.95389295	0.00505391	SNORA57
ENSDARG00000055	0.95358792	3.15E-10	ypel3
ENSDARG00000026	0.95084085	1.66E-08	socs3b
ENSDARG00000019	0.94694541	1.17E-11	VPS9D1
ENSDARG00000018	0.94259889	1.53E-06	gpx1a
ENSDARG00000079	0.94158048	0.00484685	zgc:194659
ENSDARG00000062	0.93444916	0.00021632	pdpk1a
ENSDARG00000076	0.93278949	0.00258781	ATP10B
ENSDARG00000076	0.93098107	3.99E-08	zgc:198419
ENSDARG00000093	0.92925127	0.00150128	si:ch211-158d24.4
ENSDARG00000077	0.92019456	0.00137995	HYAL2 (1 of 3)
ENSDARG00000060	0.91993322	3.60E-13	si:dkey-193b15.6
ENSDARG00000037	0.9191912	2.82E-06	gpr137
ENSDARG00000093	0.91313341	1.89E-08	B3GNT3 (2 of 4)
ENSDARG00000035	0.91269763	0.00392558	zgc:110697
ENSDARG00000093	0.91267156	0.00099641	zgc:77486
ENSDARG00000090	0.90769611	0.0024632	CAPN2 (1 of 4)
ENSDARG00000016	0.90611228	1.54E-15	keap1a
ENSDARG00000055	0.90179227	3.10E-13	casp3b
ENSDARG00000074	0.9010615	1.59E-23	keap1b
ENSDARG00000057	0.89970536	1.98E-06	cxcr4a
ENSDARG00000040	0.89563172	0.00538389	IRF2 (2 of 2)
ENSDARG00000017	0.89485735	1.90E-15	sqrdl
ENSDARG00000092	0.89446079	0.00042655	si:dkey-56e3.2
ENSDARG00000081	0.89227706	0.00068201	5_8S_rRNA
ENSDARG00000095	0.89125649	0.00246753	si:dkey-52k20.13

ENSDARG00000074	0.89023652	0.00020534	si:ch211-214b16.4
ENSDARG00000076	0.88951945	7.03E-05	cdkn1a
ENSDARG00000091	0.88722677	5.32E-14	serpinb1l4
ENSDARG00000028	0.88386249	5.69E-17	maff
ENSDARG00000061	0.88188171	4.28E-15	tiparp
ENSDARG00000094	0.88143879	2.40E-15	si:ch211-160e1.5
ENSDARG00000033	0.87963725	2.60E-16	zgc:158387
ENSDARG00000035	0.87114074	0.00065807	CU469544.2
ENSDARG00000077	0.86885688	0.00277177	si:dkey-169i5.4
ENSDARG00000077	0.86650481	1.77E-12	AIFM2
ENSDARG00000078	0.86561103	0.00056068	TRAF2 (1 of 2)
ENSDARG00000091	0.86475153	1.03E-05	HMGA2 (2 of 2)
ENSDARG00000055	0.86062915	4.57E-06	zgc:163121
ENSDARG00000070	0.86043668	9.39E-05	cacna1i
ENSDARG00000076	0.85864817	0.00067654	zgc:163143
ENSDARG00000089	0.85829411	3.02E-08	-
ENSDARG00000025	0.85787548	0.00012799	agmo
ENSDARG00000052	0.85764359	0.00185938	btr02
ENSDARG00000013	0.85714507	0.00225968	rdh8b
ENSDARG00000093	0.85414704	0.00476687	si:ch211-209l18.2
ENSDARG00000071	0.85215963	2.27E-06	RELL2
ENSDARG00000068	0.850541	2.45E-07	zgc:153031
ENSDARG00000042	0.84842989	3.71E-16	blvrb
ENSDARG00000058	0.84754675	8.90E-08	casp8
ENSDARG00000006	0.84466804	7.50E-08	msxd
ENSDARG00000076	0.83952088	3.08E-06	KEL
ENSDARG00000025	0.83797961	0.00388557	socs3a
ENSDARG00000019	0.83770302	0.00214587	zgc:110712
ENSDARG00000070	0.83239753	0.00560027	si:dkey-10p5.7
ENSDARG00000030	0.82698835	4.35E-07	xirp1
ENSDARG00000078	0.8251187	1.49E-05	crebrf
ENSDARG00000036	0.81964809	0.0043322	edn1
ENSDARG00000093	0.81903672	0.00198153	PAMR1
ENSDARG00000074	0.81760209	0.00188052	PIDD
ENSDARG00000094	0.81722222	2.45E-08	si:ch73-196i15.3
ENSDARG00000096	0.81442366	0.00045573	si:ch1073-443f11.2
ENSDARG00000060	0.81350241	6.84E-11	znf395a
ENSDARG00000094	0.81306508	1.06E-09	nupr1
ENSDARG00000091	0.81091955	1.11E-14	si:ch211-117m20.5
ENSDARG00000030	0.81088662	3.93E-07	cited2
ENSDARG00000083	0.81009552	0.00214615	dre-mir-22a

ENSDARG00000070	0.80483499	0.00362476	ctgfb
ENSDARG00000057	0.8027694	3.57E-08	dbpb
ENSDARG00000095	0.80046865	3.33E-08	si:ch211-217k17.8
ENSDARG00000079	0.79603526	0.00026321	VSTM5
ENSDARG00000095	0.7958911	0.00499133	si:ch211-130m23.2
ENSDARG00000089	0.79524443	2.67E-23	MLIP
ENSDARG00000038	0.79390186	0.00014478	EGLN1 (2 of 2)
ENSDARG00000058	0.79193138	1.88E-06	SERPING1
ENSDARG00000026	0.79056461	8.10E-12	tspo
ENSDARG00000036	0.7903108	1.42E-12	cacng6a
ENSDARG00000059	0.78947669	1.63E-09	SDR42E2
ENSDARG00000012	0.78901568	0.00380093	dlg3
ENSDARG00000053	0.78439926	0.00012952	pcmttd2
ENSDARG00000028	0.78369912	4.71E-20	glrx
ENSDARG00000024	0.78296848	8.87E-06	si:ch211-129c21.1
ENSDARG00000074	0.782784	0.00042498	sh3yl1
ENSDARG00000076	0.78068483	4.29E-16	DUSP27
ENSDARG00000009	0.77911855	1.36E-06	npl
ENSDARG00000057	0.77837595	2.09E-05	zgc:174164
ENSDARG00000068	0.77762103	2.11E-08	urah
ENSDARG00000090	0.77584263	0.00021081	RPS27L
ENSDARG00000042	0.77497339	0.00077239	EXO5
ENSDARG00000040	0.7732797	3.36E-11	qdpra
ENSDARG00000040	0.76976468	2.20E-09	nenf
ENSDARG00000038	0.76882144	7.72E-09	hbbe3
ENSDARG00000077	0.7680525	1.75E-06	NCOA7 (2 of 2)
ENSDARG00000029	0.76718909	0.00382273	ANO7
ENSDARG00000075	0.76555695	0.00239156	ADAMTS17
ENSDARG00000061	0.7646804	0.00042477	spg20b
ENSDARG00000002	0.76416078	2.98E-05	bach1
ENSDARG00000028	0.76371419	0.00232732	sult2st3
ENSDARG00000091	0.76278637	0.00043136	CSNK2A1
ENSDARG00000034	0.76213959	3.66E-20	scel
ENSDARG00000067	0.76125973	8.52E-08	pmt
ENSDARG00000061	0.76093948	5.99E-07	BICC1 (2 of 2)
ENSDARG00000076	0.76022919	0.00125219	SLC31A2
ENSDARG00000032	0.76018695	0.00190403	crfb8
ENSDARG00000092	0.76014537	3.49E-05	si:ch211-150o23.2
ENSDARG00000038	0.75848967	0.00017577	zgc:113363
ENSDARG00000077	0.75763912	0.00187802	ppp1r3da
ENSDARG00000054	0.75753081	3.36E-09	TMEM30B

ENSDARG00000042	0.75504942	0.00016304	zgc:113442
ENSDARG00000069	0.75483982	1.98E-12	si:ch211-239f4.7
ENSDARG00000021	0.75432933	1.33E-21	abcb5
ENSDARG00000070	0.75416145	0.00155325	sesn2
ENSDARG00000035	0.75412362	1.04E-08	rgcc
ENSDARG00000028	0.75034846	1.44E-07	CLDN23 (1 of 2)
ENSDARG00000076	0.74782148	1.55E-07	pappa2
ENSDARG00000042	0.74298436	1.18E-05	scarb1
ENSDARG00000008	0.74252197	0.00042084	apeh
ENSDARG00000011	0.74250229	7.63E-10	mknk2a
ENSDARG00000025	0.74133804	0.00323137	fstl3
ENSDARG00000044	0.74043099	0.00253574	BX950188.1
ENSDARG00000091	0.7385869	1.93E-06	MYO18B
ENSDARG00000093	0.73642106	0.0018928	tgm2l
ENSDARG00000007	0.73497549	1.44E-05	apol1
ENSDARG00000053	0.73311532	5.55E-05	pyya
ENSDARG00000089	0.73243903	0.00042466	PDE2A (3 of 3)
ENSDARG00000076	0.73197085	0.00453386	si:dkey-208k22.3
ENSDARG00000079	0.73175965	1.50E-06	FILIP1 (1 of 2)
ENSDARG00000044	0.73125283	1.43E-11	clica
ENSDARG00000079	0.72550256	0.00120103	si:dkey-205h13.1
ENSDARG00000078	0.72389511	0.00020513	CCRN4L (1 of 2)
ENSDARG00000008	0.72364297	0.00035	si:dkey-103i16.2
ENSDARG00000007	0.72358683	0.00185201	LRRK1 (2 of 2)
ENSDARG00000067	0.72307927	0.00011681	par1
ENSDARG00000039	0.72154569	0.00245686	tspan15
ENSDARG00000076	0.72078733	0.0001041	ANGPT4
ENSDARG00000067	0.72028577	0.00193631	zgc:154075
ENSDARG00000094	0.71747025	0.0011827	si:dkey-267l16.1
ENSDARG00000053	0.71740819	3.35E-07	si:ch73-211l2.1
ENSDARG00000043	0.71657935	0.00525986	zgc:65997
ENSDARG00000037	0.71647792	1.45E-10	zgc:112484
ENSDARG00000004	0.71554409	0.00044359	casp9
ENSDARG00000010	0.71090629	0.00012779	BX957278.1
ENSDARG00000063	0.70945293	2.44E-05	CREG1
ENSDARG00000038	0.70877218	2.96E-05	gbp1
ENSDARG00000088	0.70775875	4.23E-08	wu:fc34e06
ENSDARG00000039	0.70713871	0.0005588	si:dkey-51a16.9
ENSDARG00000092	0.70442164	1.92E-05	MLL3 (1 of 3)
ENSDARG00000042	0.70121895	1.20E-11	phlda2
ENSDARG00000019	0.70013429	1.25E-09	twist3

ENSDARG00000078	0.6969507	0.00562322	METTL21C (1 of 2)
ENSDARG00000053	0.69685648	0.00267021	C12H7orf62
ENSDARG00000074	0.69654773	0.00419995	unc5a
ENSDARG00000004	0.6942505	2.02E-05	tfe3a
ENSDARG00000068	0.6936929	2.00E-07	si:ch211-264e16.1
ENSDARG00000009	0.692963	4.73E-09	SLC38A5 (2 of 2)
ENSDARG00000071	0.6906576	1.27E-10	g6pd
ENSDARG00000045	0.68765102	0.00330007	rdh12l
ENSDARG00000030	0.68663437	0.00309504	zgc:66484
ENSDARG00000070	0.68590735	0.00017222	im:7160594
ENSDARG00000079	0.68577694	3.69E-08	CR848759.2
ENSDARG00000037	0.68401156	0.00161132	haus7
ENSDARG00000090	0.68262652	0.0008465	CABZ01044814.2
ENSDARG00000041	0.681775	0.00014248	smtnl1
ENSDARG00000095	0.68171213	0.00121484	si:dkey-253d23.3
ENSDARG00000093	0.67966024	0.00255713	sertad2a
ENSDARG00000024	0.67847923	0.00307827	slc11a2
ENSDARG00000089	0.67662649	0.00018171	CABZ01035189.1
ENSDARG00000073	0.67307965	0.00438371	zgc:171673
ENSDARG00000068	0.67296942	8.63E-05	pargl
ENSDARG00000028	0.67198118	0.00155592	zgc:162945
ENSDARG00000003	0.67065453	6.05E-06	CU929089.1
ENSDARG00000093	0.6690748	0.00500526	si:ch211-215d8.2
ENSDARG00000021	0.66742626	8.82E-19	alas1
ENSDARG00000040	0.66726304	1.60E-06	pttg1ipb
ENSDARG00000013	0.66567647	1.30E-18	psap
ENSDARG00000091	0.66478768	0.00130123	CABZ01045617.2
ENSDARG00000057	0.66454195	3.27E-05	nbeal2
ENSDARG00000044	0.65958736	0.00062997	tmem86a
ENSDARG00000070	0.65786852	1.42E-05	hoxc13a
ENSDARG00000021	0.65627959	1.78E-23	ahr2
ENSDARG00000063	0.65548312	0.00092531	TRPM4 (3 of 3)
ENSDARG00000052	0.65461929	5.04E-11	fsta
ENSDARG00000011	0.65326531	7.19E-14	esrp1
ENSDARG00000013	0.65193234	5.22E-15	slc2a3
ENSDARG00000078	0.65030656	8.43E-08	CDH26
ENSDARG00000008	0.64749587	1.18E-05	renbp
ENSDARG00000076	0.64653311	0.00457199	SLC2A13
ENSDARG00000074	0.6463069	6.49E-10	slc6a11
ENSDARG00000014	0.64584238	5.95E-10	arhgef25b
ENSDARG00000075	0.6457945	0.00155258	C8H1orf222

ENSDARG00000071	0.64563558	4.98E-10	pvalb9
ENSDARG00000053	0.6449781	9.00E-07	h2afy
ENSDARG00000010	0.64389697	1.30E-07	rnf11a
ENSDARG00000075	0.64229401	0.00060041	CCDC135
ENSDARG00000054	0.6421901	0.00018051	mfsd6b
ENSDARG00000021	0.64190291	1.55E-13	fbp1a
ENSDARG00000043	0.64023114	0.00433422	gadd45aa
ENSDARG00000035	0.63964452	0.00038004	lpcat4
ENSDARG00000020	0.63894888	0.00525958	ptges
ENSDARG00000027	0.63721462	0.00096126	gnsb
ENSDARG00000025	0.63600337	4.65E-11	hagh
ENSDARG00000035	0.63452969	1.34E-09	DIABLO (1 of 2)
ENSDARG00000070	0.63317609	1.58E-12	FBXO2
ENSDARG00000075	0.63310894	0.00571982	C3H16orf89
ENSDARG00000060	0.63242914	7.38E-07	bnipl
ENSDARG00000019	0.63204225	7.06E-05	he1b
ENSDARG00000034	0.63202175	2.32E-08	asah1b
ENSDARG00000059	0.63189884	0.00173936	ntrk2b
ENSDARG00000060	0.63006685	0.00034322	PPP1R27 (1 of 2)
ENSDARG00000070	0.62947777	0.00021754	mlpha
ENSDARG00000022	0.62855095	4.77E-07	itgb1b.2
ENSDARG00000088	0.62840191	0.0002322	junbb
ENSDARG00000029	0.62833872	0.00515046	adcyap1r1a
ENSDARG00000027	0.62799039	2.21E-05	uros
ENSDARG00000077	0.62678922	0.00091206	zgc:174863
ENSDARG00000056	0.62619097	0.00273725	NRSN2
ENSDARG00000089	0.62553843	1.25E-08	zgc:162193
ENSDARG00000045	0.625417	1.69E-05	FAM3D
ENSDARG00000044	0.62516355	2.04E-10	txn
ENSDARG00000020	0.62353891	5.13E-08	NAGA
ENSDARG00000075	0.62324679	4.90E-07	CABZ01072534.1
ENSDARG00000038	0.62249811	0.00176744	gbp2
ENSDARG00000036	0.62213275	1.03E-08	txnipa
ENSDARG00000018	0.62149825	4.99E-05	pth1rb
ENSDARG00000019	0.62149575	0.00562834	AMOTL1
ENSDARG00000018	0.62009011	1.70E-05	gclm
ENSDARG00000035	0.61918219	0.00015934	gcnt4a
ENSDARG00000092	0.61864391	0.00171777	MGRN1 (2 of 3)
ENSDARG00000074	0.61797863	0.00044065	ITPR1 (1 of 2)
ENSDARG00000070	0.61701985	1.99E-12	rgs4
ENSDARG00000056	0.61646094	0.00197524	onecut3

ENSDARG00000031	0.61539677	7.29E-08	pcbd1
ENSDARG00000062	0.61429982	0.00013791	-
ENSDARG00000043	0.61180183	0.00305093	fxc1
ENSDARG00000058	0.61103229	1.36E-08	abcc4
ENSDARG00000074	0.61051274	0.00361806	si:ch211-131e11.19
ENSDARG00000012	0.60929794	0.00233525	CABZ01057488.1
ENSDARG00000038	0.6092919	9.85E-07	acy1
ENSDARG00000058	0.60756013	0.00029804	trim55b
ENSDARG00000090	0.60626812	2.51E-07	wu:fb12e11
ENSDARG00000019	0.60618323	4.23E-12	evpla
ENSDARG00000044	0.60540706	0.00031063	hars2
ENSDARG00000015	0.60378252	8.04E-14	pgd
ENSDARG00000077	0.60359172	0.00342858	dnah11
ENSDARG00000087	0.60328115	0.00122678	BAD (2 of 2)
ENSDARG00000079	0.60314686	0.00154453	si:ch211-149 1.2
ENSDARG00000073	0.60251736	0.00093413	-
ENSDARG00000013	0.60227776	2.36E-09	gclc
ENSDARG00000016	0.60146485	0.0015754	CCDC90A
ENSDARG00000074	0.60096567	4.51E-10	abca1a
ENSDARG00000055	0.60050839	0.00012218	slc7a7
ENSDARG00000038	0.59877926	1.92E-06	alas2
ENSDARG00000074	0.59874075	0.00115856	mertk
ENSDARG00000088	0.59847408	1.47E-10	si:dkeyp-69b9.3
ENSDARG00000009	0.59771294	0.00037121	uevld
ENSDARG00000036	0.59696896	1.03E-05	zgc:64115
ENSDARG00000070	0.59537374	0.00345285	zgc:175247
ENSDARG00000051	0.59523901	5.06E-07	isca1
ENSDARG00000043	0.59366097	0.00104464	egfl7
ENSDARG00000035	0.59245876	3.56E-12	histh1l
ENSDARG00000071	0.58910451	6.16E-06	zgc:171566
ENSDARG00000031	0.58891427	0.00016722	dhrs13b
ENSDARG00000052	0.58818456	0.00367612	top3a
ENSDARG00000091	0.58688166	6.72E-06	si:dkey-12h9.16
ENSDARG00000002	0.58667011	0.00060156	fam100aa
ENSDARG00000068	0.58551108	0.00262834	-
ENSDARG00000077	0.58232173	1.14E-05	cln6a
ENSDARG00000090	0.58188253	7.69E-06	ildr1a
ENSDARG00000005	0.58151413	1.89E-05	tbc1d17
ENSDARG00000061	0.58123063	3.77E-05	epb41 4b
ENSDARG00000076	0.57835464	0.0027327	CABZ01062994.1
ENSDARG00000076	0.57818142	0.00248523	tm2d3

ENSDARG00000087	0.57727948	5.43E-05	RBBP8NL
ENSDARG00000017	0.57672988	0.00037908	pik3cg
ENSDARG00000041	0.57641069	5.67E-07	styk1
ENSDARG00000056	0.57630058	2.06E-05	cpvl
ENSDARG00000075	0.57559655	7.27E-08	hbegfa
ENSDARG00000018	0.57519628	0.00025515	cyb5r1
ENSDARG00000086	0.57470513	0.0001195	tmem176l.1
ENSDARG00000033	0.57462964	1.18E-10	map1lc3a
ENSDARG00000013	0.57389029	1.10E-06	pck1
ENSDARG00000037	0.57358765	0.00037845	IRS2
ENSDARG00000038	0.57192109	0.00238345	her2
ENSDARG00000069	0.57104234	4.59E-08	PPP1R15A
ENSDARG00000044	0.57087871	7.56E-05	CR385063.1
ENSDARG00000023	0.57054347	0.00087979	C21H5orf4
ENSDARG00000052	0.56918565	0.00121704	ptgs1
ENSDARG00000062	0.5687911	7.58E-06	flcn
ENSDARG00000007	0.5681131	3.56E-06	slc30a4
ENSDARG00000006	0.56759723	0.00151117	zgc:111983
ENSDARG00000045	0.56647694	0.00057989	gpr137c
ENSDARG00000071	0.56560902	0.00572424	FBLIM1
ENSDARG00000009	0.56423712	0.00437504	sele
ENSDARG00000057	0.55981189	0.00073594	fstb
ENSDARG00000025	0.5596472	0.00056376	zgc:64085
ENSDARG00000006	0.55930882	0.00121237	cacna1ab
ENSDARG00000012	0.55813864	1.26E-05	SMARCA1
ENSDARG00000063	0.55514141	0.00376983	shank3a
ENSDARG00000079	0.55501761	1.90E-09	hivep1
ENSDARG00000087	0.55424119	3.38E-10	CT573389.2
ENSDARG00000074	0.55369202	2.56E-05	il12rb2l
ENSDARG00000012	0.55348641	6.07E-13	capn9
ENSDARG00000088	0.55322575	2.13E-05	CT956064.3
ENSDARG00000010	0.55060878	5.26E-06	insig1
ENSDARG00000074	0.55011139	0.00056781	RASIP1
ENSDARG00000090	0.54856919	0.00533753	CABZ01053592.1
ENSDARG00000025	0.54789542	0.00030813	comtb
ENSDARG00000022	0.54746843	7.63E-06	ccdc28a
ENSDARG00000057	0.54545467	3.67E-06	EHBP1L1 (2 of 2)
ENSDARG00000029	0.54497316	1.05E-05	pel12
ENSDARG00000045	0.54479418	4.20E-08	ciapin1
ENSDARG00000059	0.54458161	6.42E-05	foxj1a
ENSDARG00000060	0.54337974	2.45E-06	MUM1

ENSDARG00000035	0.54092441	2.11E-11	fuca1
ENSDARG00000043	0.54078161	6.79E-06	ANXA1 (4 of 4)
ENSDARG00000033	0.54063264	6.65E-10	mdm2
ENSDARG00000053	0.53909967	0.00083718	adrb3a
ENSDARG00000090	0.53870052	0.00301496	si:dkey-246i14.3
ENSDARG00000062	0.53847457	0.00363638	LENG9
ENSDARG00000071	0.53761048	0.00015082	mgst2
ENSDARG00000059	0.53641925	0.00148739	hoxd11a
ENSDARG00000040	0.5348313	0.00044254	zgc:110333
ENSDARG00000091	0.53451347	0.00044738	fgfbp1
ENSDARG00000052	0.53406866	0.00338762	zgc:113162
ENSDARG00000075	0.53395466	2.78E-06	SGSM1 (1 of 2)
ENSDARG00000069	0.53239934	3.23E-06	PARP4
ENSDARG00000021	0.53199191	3.32E-05	amdhd2
ENSDARG00000075	0.53102986	0.00317297	THSD1
ENSDARG00000045	0.53009291	0.0028741	irf7
ENSDARG00000086	0.52901603	5.42E-06	si:ch211-232i5.3
ENSDARG00000045	0.52886922	1.15E-06	sidt2
ENSDARG00000036	0.52853256	7.94E-10	ctdsp2
ENSDARG00000007	0.52805253	1.42E-05	meox1
ENSDARG00000008	0.5279492	5.33E-07	si:dkey-42i9.4
ENSDARG00000006	0.52702224	4.51E-11	tkf
ENSDARG00000008	0.52588304	0.00065881	KLHL24 (1 of 2)
ENSDARG00000018	0.52465598	0.00092086	EPS8
ENSDARG00000001	0.52447777	2.48E-07	kbtbd12
ENSDARG00000076	0.52440355	0.00331971	epdl1
ENSDARG00000022	0.52415278	0.00178131	ing5a
ENSDARG00000041	0.52373577	4.45E-10	chmp5b
ENSDARG00000006	0.52372129	9.49E-07	lrrk2
ENSDARG00000053	0.52361489	2.06E-05	cox7c
ENSDARG00000008	0.52087453	8.26E-07	dbnla
ENSDARG00000042	0.52074722	2.64E-07	cebpb
ENSDARG00000063	0.52004813	0.00022835	-
ENSDARG00000077	0.51992436	5.01E-07	CABZ01069216.1
ENSDARG00000035	0.51814191	0.0022774	adam28
ENSDARG00000031	0.51747027	0.00052476	stat2
ENSDARG00000068	0.51565242	0.00206271	gbgt1l4
ENSDARG00000022	0.51411385	1.06E-05	stat3
ENSDARG00000094	0.5132924	0.00014776	zzef1
ENSDARG00000088	0.51323239	1.25E-07	fam217b
ENSDARG00000058	0.51307525	0.00256464	tmbim1

ENSDARG00000053	0.51262494	5.03E-07	pcmttd1
ENSDARG00000035	0.51208511	0.00085876	sirt3
ENSDARG00000029	0.51205457	6.95E-07	xpnpep1
ENSDARG00000055	0.51181447	1.48E-05	ptpn3
ENSDARG00000041	0.51158805	1.29E-06	eif4ebp3l
ENSDARG00000007	0.51075788	0.00143327	chmp4c
ENSDARG00000040	0.50955614	9.96E-08	klf2b
ENSDARG00000078	0.50798174	4.06E-06	CR407583.2
ENSDARG00000052	0.50793099	0.00081465	aspg
ENSDARG00000041	0.50715506	0.00099278	RERG
ENSDARG00000029	0.50553506	0.00529885	thrap6
ENSDARG00000031	0.50505486	2.43E-13	aim1a
ENSDARG00000036	0.50437166	7.08E-06	rnaset2
ENSDARG00000037	0.50415209	0.00271362	MARVELD3
ENSDARG00000037	0.5031186	0.00159242	cln3
ENSDARG00000041	0.50259944	0.00015652	bhlhe41
ENSDARG00000037	0.50256934	0.00129728	nek6
ENSDARG00000028	0.50215857	5.95E-08	bnip3lb
ENSDARG00000004	0.50203943	7.50E-05	lonp2
ENSDARG00000075	0.50142431	1.58E-08	soga3b
ENSDARG00000045	0.49874394	6.00E-05	pawrl
ENSDARG00000051	0.49864135	1.13E-05	btr12
ENSDARG00000019	0.49736499	0.00047402	slain1a
ENSDARG00000071	0.49694064	0.00012485	CABZ01047562.1
ENSDARG00000018	0.49666098	0.00034361	KDM4A (2 of 2)
ENSDARG00000068	0.49405879	0.00511941	spata2l
ENSDARG00000059	0.49332414	0.00046007	nr1d4b
ENSDARG00000053	0.49324506	7.25E-05	ly75
ENSDARG00000092	0.49208178	0.00075569	gas5
ENSDARG00000004	0.49130599	3.89E-06	zgc:100868
ENSDARG00000004	0.49069978	3.13E-05	bhlhe40
ENSDARG00000023	0.49053788	0.00076646	slc25a43
ENSDARG00000094	0.49049391	7.04E-05	mical3b
ENSDARG00000059	0.4900253	1.18E-06	plcd1a
ENSDARG00000051	0.48986286	0.00105044	cecr1a
ENSDARG00000055	0.4893817	2.51E-07	CD68
ENSDARG00000002	0.48841677	0.00072129	miox
ENSDARG00000036	0.48835827	0.00102393	hsd3b7
ENSDARG00000058	0.48791673	3.23E-06	si:dkey-222f8.3
ENSDARG00000028	0.48783011	4.32E-07	fut9d
ENSDARG00000057	0.4873635	1.43E-11	ctsd

ENSDARG00000036	0.4867769	0.00027158	atp11c
ENSDARG00000042	0.48417282	0.00113402	mau2
ENSDARG00000051	0.48120897	0.00239121	si:dkeyp-19e1.3
ENSDARG00000063	0.479287	0.00553776	osbpl6
ENSDARG00000068	0.47869711	1.57E-06	ATF5 (1 of 2)
ENSDARG00000004	0.47861917	0.00034095	ptgs2a
ENSDARG00000091	0.47680533	0.00022151	TIFA
ENSDARG00000052	0.47677488	3.66E-07	OSGIN1
ENSDARG00000077	0.4767563	1.22E-05	TANC1 (2 of 2)
ENSDARG00000069	0.476127	0.00269398	rnaseka
ENSDARG00000043	0.47589942	2.32E-05	ctsz
ENSDARG00000028	0.47534877	0.00416644	AAMDC
ENSDARG00000069	0.47477569	0.00485307	zgc:162608
ENSDARG00000079	0.4747042	0.00019697	wu:fy63c09
ENSDARG00000040	0.4743271	0.00077983	-
ENSDARG00000004	0.47404742	7.40E-08	atl3
ENSDARG00000003	0.47332215	8.24E-05	parp3
ENSDARG00000045	0.47280125	0.00489083	tmem106a
ENSDARG00000040	0.472783	2.51E-05	PSPH
ENSDARG00000004	0.4724353	0.00028761	tie1
ENSDARG00000016	0.4716687	1.65E-05	arl6ip5b
ENSDARG00000039	0.47067447	3.04E-07	TSTA3 (3 of 3)
ENSDARG00000094	0.4704514	0.00040194	CR936975.5
ENSDARG00000015	0.47027823	1.30E-06	mknk2b
ENSDARG00000034	0.46962788	0.00028175	bcmo1
ENSDARG00000013	0.46924136	0.00504359	plekxb2
ENSDARG00000009	0.46918719	0.00329505	rnf114
ENSDARG00000076	0.46898106	0.00290682	usp53b
ENSDARG00000086	0.46872072	7.49E-05	BAHD1 (1 of 2)
ENSDARG00000076	0.46756949	2.21E-07	fam100b
ENSDARG00000013	0.46748081	9.48E-06	zgc:92113
ENSDARG00000018	0.46690178	0.00010257	efna1b
ENSDARG00000029	0.46647788	0.00061629	stx11b.1
ENSDARG00000076	0.46499609	0.00364755	PPM1K (2 of 2)
ENSDARG00000051	0.46488034	1.10E-09	pkp3
ENSDARG00000075	0.4646577	0.00422894	ASPHD1
ENSDARG00000021	0.46448891	3.29E-06	mvp
ENSDARG00000016	0.464395	2.82E-06	rnf128a
ENSDARG00000017	0.46378367	0.00073064	SLC44A2 (2 of 2)
ENSDARG00000001	0.46359157	0.00106018	pfkfb3
ENSDARG00000019	0.46270078	0.00152917	tbcelb

ENSDARG00000032	0.46265828	5.02E-05	tmem8a
ENSDARG00000060	0.46248092	4.73E-06	H6PD
ENSDARG00000000	0.46069742	0.00020954	slc1a4
ENSDARG00000045	0.45928703	0.00015521	myeov2
ENSDARG00000043	0.45735738	0.00300368	B3GNT3 (4 of 4)
ENSDARG00000011	0.45581594	0.00249029	prtfdc1
ENSDARG00000069	0.45552231	0.00484347	kbtbd4
ENSDARG00000041	0.45522934	0.00175269	cetn4
ENSDARG00000045	0.45479464	2.24E-05	myca
ENSDARG00000078	0.45423673	4.51E-05	si:ch211-232i5.1
ENSDARG00000074	0.45331091	0.0015956	tmem237b
ENSDARG00000042	0.45284246	6.25E-08	ctgfa
ENSDARG00000091	0.45266874	1.10E-06	CABZ01088039.1
ENSDARG00000009	0.45235005	2.11E-07	NRAP
ENSDARG00000019	0.4512741	0.00325903	rhous
ENSDARG00000043	0.4511141	0.00538763	SREK1IP1
ENSDARG00000095	0.45091887	0.00016464	si:dkey-87o1.2
ENSDARG00000043	0.44969735	0.00349275	PQLC2
ENSDARG00000059	0.44921972	0.00202396	trpm4
ENSDARG00000006	0.44841906	2.65E-05	ak4
ENSDARG00000074	0.44753287	0.00438619	zgc:162183
ENSDARG00000056	0.44667409	0.00182137	afap1l1b
ENSDARG00000022	0.44584193	0.00250972	bnip4
ENSDARG00000012	0.44522362	0.00396236	pclob
ENSDARG00000015	0.44391717	7.47E-06	cyp3c1
ENSDARG00000004	0.44365753	3.49E-05	reep3
ENSDARG00000031	0.44314702	0.0034638	RTKN (1 of 2)
ENSDARG00000033	0.44272694	0.00521803	FAT3
ENSDARG00000009	0.44208324	4.85E-06	dcaf11
ENSDARG00000019	0.44067017	0.00362891	CDS1
ENSDARG00000087	0.44013344	3.24E-05	ATOX1
ENSDARG00000070	0.44003215	0.00053615	grin2db
ENSDARG00000053	0.43996379	0.00067776	adhfe1
ENSDARG00000057	0.43992785	0.00173916	nme3
ENSDARG00000095	0.43939937	1.88E-06	si:ch73-303g23.4
ENSDARG00000094	0.43934696	1.25E-09	si:dkey-9i23.11
ENSDARG00000057	0.43927352	9.49E-07	tsc1b
ENSDARG00000059	0.4386253	2.79E-05	ddit3
ENSDARG00000057	0.43806539	0.00023831	svopl
ENSDARG00000054	0.43747902	7.88E-06	IRS1
ENSDARG00000039	0.43652831	0.00014177	ap1m3

ENSDARG00000091	0.43652184	0.00089611	BX296557.6
ENSDARG00000073	0.4362678	8.08E-05	si:dkeyp-72g9.4
ENSDARG00000068	0.43573746	2.20E-06	hist2h2l
ENSDARG00000023	0.43455038	8.36E-07	aqp1a.1
ENSDARG00000044	0.43420676	0.00057135	ahi1
ENSDARG00000015	0.43329935	1.07E-06	sesn3
ENSDARG00000058	0.43316503	1.09E-06	hsqb8
ENSDARG00000035	0.4327219	0.00181951	mpdu1a
ENSDARG00000054	0.43244299	0.00438109	lgals2a
ENSDARG00000070	0.43211583	0.00022838	ptpn23b
ENSDARG00000059	0.43007617	0.00387279	dub
ENSDARG00000002	0.4295792	4.40E-05	DEDD2
ENSDARG00000014	0.42937913	5.39E-07	dlx3b
ENSDARG00000037	0.42899066	0.00100703	scube2
ENSDARG00000003	0.42894581	0.00014125	asb2a
ENSDARG00000030	0.4288227	1.50E-06	C13H1orf63
ENSDARG00000068	0.42869153	1.99E-05	TENC1 (2 of 2)
ENSDARG00000078	0.42853068	0.00033284	asb2b
ENSDARG00000032	0.42730988	0.00014353	arl4cb
ENSDARG00000037	0.42724739	2.02E-05	FILIP1L (2 of 2)
ENSDARG00000033	0.42721358	6.56E-06	pi4k2a
ENSDARG00000034	0.42713084	0.00233026	AL929434.1
ENSDARG00000023	0.42706077	0.00024646	he1a
ENSDARG00000041	0.4266211	0.00279797	NDUFA3
ENSDARG00000031	0.42622741	6.73E-06	hif1an
ENSDARG00000056	0.42405564	0.00246794	tmem170a
ENSDARG00000022	0.42386152	0.00262875	ddx59
ENSDARG00000016	0.42342549	5.57E-05	heatr7a
ENSDARG00000088	0.42340109	0.00346729	PHGR1
ENSDARG00000002	0.42260856	0.00043552	ATG14
ENSDARG00000056	0.4215383	0.00140771	tmem45b
ENSDARG00000015	0.42122658	0.00036203	flt4
ENSDARG00000017	0.42110945	0.00367997	foxf2a
ENSDARG00000003	0.42042399	0.00019168	atp7a
ENSDARG00000062	0.42029584	0.00236181	rnf115
ENSDARG00000033	0.42021835	1.15E-07	paics
ENSDARG00000077	0.41983884	3.00E-06	nbr1
ENSDARG00000021	0.41957234	0.00148615	nipal3
ENSDARG00000070	0.41904141	0.0002619	lepr
ENSDARG00000007	0.41873561	0.00391363	bloc1s4
ENSDARG00000079	0.41819252	9.95E-05	sepp1b

ENSDARG00000060	0.41787594	1.38E-05	si:dkey-157l19.2
ENSDARG00000020	0.41706679	0.00345108	CASKIN1 (2 of 3)
ENSDARG00000028	0.41662923	0.00128438	jkamp
ENSDARG00000077	0.41662338	0.00543124	ATF5 (2 of 2)
ENSDARG00000071	0.41645724	3.80E-05	aox3
ENSDARG00000057	0.41633235	1.56E-07	znf185
ENSDARG00000036	0.41498825	0.00137081	EMP3 (1 of 2)
ENSDARG00000074	0.41461594	0.00105209	ATXN7
ENSDARG00000044	0.41406923	1.03E-05	etv5b
ENSDARG00000073	0.41358485	0.00019903	FEZ2 (2 of 2)
ENSDARG00000088	0.41282337	0.00297821	gm2a
ENSDARG00000055	0.41266921	0.00538099	9-Mar
ENSDARG00000012	0.41240007	0.00094357	MAT2B
ENSDARG00000060	0.40956297	0.00554849	slc12a9
ENSDARG00000006	0.40918377	4.13E-05	stat1a
ENSDARG00000017	0.40891847	0.00080325	gstt1b
ENSDARG00000059	0.40847265	1.89E-06	DENND4C
ENSDARG00000017	0.40709773	0.00016322	ccng2
ENSDARG00000030	0.40597814	9.91E-05	il6st
ENSDARG00000086	0.40574605	0.00111923	relb
ENSDARG00000074	0.40554398	6.07E-08	akt1s1
ENSDARG00000054	0.40537101	2.57E-06	id3
ENSDARG00000021	0.4045261	0.00114177	hmgcl
ENSDARG00000054	0.40438859	2.53E-05	h1fx
ENSDARG00000077	0.40423383	0.00209641	chl1a
ENSDARG00000070	0.40415176	8.24E-06	MYO10 (2 of 2)
ENSDARG00000043	0.40396045	0.00067682	nisch
ENSDARG00000007	0.40321686	0.00096821	si:dkey-145p14.5
ENSDARG00000004	0.40204872	3.31E-06	lmo7a
ENSDARG00000018	0.40168744	0.00322507	RELL1
ENSDARG00000027	0.40167913	4.15E-05	cnppd1
ENSDARG00000057	0.40165843	0.00056113	rnf103
ENSDARG00000029	0.40125554	0.00150244	epb41b
ENSDARG00000089	0.40058754	6.89E-06	TAOK1 (3 of 3)
ENSDARG00000089	0.39960274	0.00380955	-
ENSDARG00000077	0.39911621	0.00030587	RFX7 (1 of 2)
ENSDARG00000056	0.39824013	1.56E-05	rpia
ENSDARG00000075	0.39806002	0.00339068	BAI1 (2 of 3)
ENSDARG00000089	0.39794642	0.00040643	slc25a32a
ENSDARG00000086	0.39775895	0.00308492	-
ENSDARG00000071	0.39732229	0.0003514	ctdspla

ENSDARG00000018	0.39616065	7.98E-05	gatsl2
ENSDARG00000051	0.39501554	0.00018073	ca5
ENSDARG00000044	0.39431812	2.68E-05	fuca2
ENSDARG00000070	0.39320375	0.001648	MRPS21
ENSDARG00000062	0.39309196	0.00064458	ptpn21
ENSDARG00000035	0.39177469	0.00111452	npr3
ENSDARG00000025	0.39140672	0.00303278	wdr24
ENSDARG00000063	0.391206	0.005239	ZNF462
ENSDARG00000079	0.39046709	3.16E-06	DLC1
ENSDARG00000059	0.39045978	4.23E-10	CABZ01080098.1
ENSDARG00000039	0.38997064	3.74E-06	vps13a
ENSDARG00000042	0.38976811	3.44E-05	tpp1
ENSDARG00000008	0.38969416	8.56E-05	mcl1b
ENSDARG00000056	0.3894565	0.00258955	si:ch211-154o6.6
ENSDARG00000039	0.38907644	0.00016904	hivep2
ENSDARG00000017	0.38822946	0.00421072	ctdp1
ENSDARG00000013	0.38725419	0.00027331	lmna
ENSDARG00000067	0.38715662	0.00482123	-
ENSDARG00000075	0.38706726	0.00312928	GIGYF1 (1 of 3)
ENSDARG00000043	0.38683662	9.25E-05	prdx6
ENSDARG00000018	0.38468694	0.00023798	mknk1
ENSDARG00000090	0.38389346	0.00049237	AL929286.1
ENSDARG00000011	0.38332604	0.00394172	si:ch211-93f2.1
ENSDARG00000057	0.38296535	7.34E-05	7-Mar
ENSDARG00000090	0.38259728	0.00407256	CTIF
ENSDARG00000069	0.38256253	0.00225362	zgc:114045
ENSDARG00000069	0.38204742	0.003488	rhbdl2
ENSDARG00000061	0.38109893	0.00071173	USP32
ENSDARG00000069	0.38096222	6.97E-07	plscr3b
ENSDARG00000013	0.38044753	0.00029248	capns1b
ENSDARG00000016	0.37992769	6.60E-05	cd9b
ENSDARG00000016	0.37943317	0.00197962	SBNO2 (2 of 3)
ENSDARG00000055	0.3793963	0.00496258	hmox2a
ENSDARG00000059	0.37773651	0.00323055	C19H1orf85
ENSDARG00000025	0.37771193	0.00036173	ftr83
ENSDARG00000025	0.37769422	0.00041959	TIAM1 (1 of 2)
ENSDARG00000086	0.3767937	0.00058078	CD302
ENSDARG00000015	0.37656962	0.00022143	mfsd8
ENSDARG00000056	0.37582023	0.00156374	serinc2
ENSDARG00000021	0.37446844	0.00087795	zgc:91909
ENSDARG00000033	0.37398817	1.73E-05	prrx1a

ENSDARG00000045	0.37384635	0.00028597	arl4d
ENSDARG00000010	0.37366797	0.0002971	nqo1
ENSDARG00000069	0.37339143	0.00128038	bcl6ab
ENSDARG00000024	0.37273165	0.00094874	vamp8
ENSDARG00000087	0.37264567	0.0026919	MAP4K3 (2 of 2)
ENSDARG00000038	0.37209496	2.00E-07	h1f0
ENSDARG00000076	0.37198416	0.00083441	FP236835.1
ENSDARG00000063	0.37170399	0.00016948	zranb1b
ENSDARG00000057	0.3713684	0.00109432	tbc1d15
ENSDARG00000063	0.3711171	0.00066756	PCLO (1 of 2)
ENSDARG00000022	0.3710863	0.0016035	hig1
ENSDARG00000054	0.36996756	0.00492499	hsd17b14
ENSDARG00000077	0.3698188	0.00446262	si:ch211-87l2.1
ENSDARG00000045	0.36941726	0.00010738	tmem110l
ENSDARG00000019	0.36925772	0.00171681	gadd45g
ENSDARG00000075	0.36873206	9.10E-05	CU464134.1
ENSDARG00000027	0.36836236	0.00017919	ptgdsb
ENSDARG00000041	0.36830325	8.91E-05	rps29
ENSDARG00000032	0.36809594	1.40E-08	net1
ENSDARG00000061	0.36775281	7.46E-05	zbtb4
ENSDARG00000043	0.36774325	0.00257997	tom1
ENSDARG00000011	0.3672774	0.00032416	pptc7
ENSDARG00000076	0.36599849	8.80E-06	dsg2
ENSDARG00000010	0.36596628	0.00012254	ppm1k
ENSDARG00000035	0.36491823	0.00024029	tp53
ENSDARG00000057	0.36364276	0.00026272	golga7
ENSDARG00000011	0.36331596	0.00201099	cpm
ENSDARG00000011	0.36311118	0.00522246	fgfr1b
ENSDARG00000036	0.36310791	7.13E-05	tbc1d5
ENSDARG00000086	0.36310479	0.00169301	-
ENSDARG00000016	0.36295169	0.00013615	C20H2orf18
ENSDARG00000078	0.36264762	0.00251302	crfb5
ENSDARG00000061	0.3621748	0.0047611	atxn1a
ENSDARG00000039	0.36187057	0.00304146	pitpnaa
ENSDARG00000088	0.35940461	8.26E-05	CELSR2 (1 of 2)
ENSDARG00000069	0.35885661	0.00498129	TAOK1 (1 of 3)
ENSDARG00000088	0.35882531	0.00192971	DMXL1 (2 of 2)
ENSDARG00000032	0.3586472	0.0046875	her12
ENSDARG00000045	0.35847699	1.84E-05	lamb1b
ENSDARG00000015	0.35786196	0.00274599	rab22a
ENSDARG00000063	0.35745979	0.00458733	nuak2

ENSDARG00000087	0.35736602	0.00150245	rnf216
ENSDARG00000055	0.35684594	6.87E-05	dopey2
ENSDARG00000040	0.35664279	2.12E-06	tfap2c
ENSDARG00000003	0.35593244	0.00022125	cwc25
ENSDARG00000062	0.35589753	0.00050617	PDE3B
ENSDARG00000024	0.35417635	0.00032274	cry3
ENSDARG00000052	0.35417364	0.0053259	FAM210B
ENSDARG00000036	0.35348237	5.32E-05	rpl39
ENSDARG00000038	0.35337454	9.93E-06	FNBP1 (1 of 3)
ENSDARG00000005	0.35328111	0.00210205	AIM1L
ENSDARG00000009	0.35276223	0.00071405	fgfr1op2
ENSDARG00000092	0.35245842	0.00180976	si:ch211-250g4.3
ENSDARG00000078	0.3521986	2.28E-06	tex2
ENSDARG00000029	0.34914954	0.00106369	cdkn1ba
ENSDARG00000010	0.34878051	0.00302445	rapgef6
ENSDARG00000012	0.34867338	0.00095705	gpia
ENSDARG00000038	0.3484298	0.00308305	ssfa2
ENSDARG00000077	0.34840375	9.62E-05	RPL29
ENSDARG00000021	0.34826128	4.63E-07	pdcd4a
ENSDARG00000038	0.34722232	0.00052251	si:dkey-65j6.2
ENSDARG00000069	0.34681128	0.00060432	unc13c
ENSDARG00000045	0.34632355	0.00200152	zgc:153129
ENSDARG00000076	0.3459519	0.00021245	NFX1
ENSDARG00000039	0.34495808	0.00122063	bag3
ENSDARG00000076	0.34482668	1.14E-05	ccng1
ENSDARG00000056	0.34410947	0.0048183	cep63
ENSDARG00000018	0.34395492	0.00512527	acvrl1
ENSDARG00000056	0.34272867	0.00011458	sort1b
ENSDARG00000037	0.34241631	0.0006035	atoh8
ENSDARG00000034	0.34167772	2.22E-05	hexb
ENSDARG00000003	0.34058255	0.00076782	ubxn6
ENSDARG00000087	0.34045997	0.00261112	CABZ01088509.1
ENSDARG00000087	0.34031623	0.00289347	Metazoa_SRP
ENSDARG00000008	0.34019956	0.00036138	usp28
ENSDARG00000022	0.34006207	0.000105	slc26a5
ENSDARG00000070	0.33996953	0.00034014	six7
ENSDARG00000040	0.33976793	0.00094793	wipi1
ENSDARG00000089	0.33878961	8.46E-05	mbpb
ENSDARG00000020	0.33874332	0.00072511	adck3
ENSDARG00000016	0.33843501	0.00060061	eif4a2
ENSDARG00000062	0.33820461	0.00399596	ARMC8

ENSDARG00000045	0.33793387	0.00551169	chad
ENSDARG00000031	0.33754498	0.00057544	si:ch211-207d6.2
ENSDARG00000035	0.33733694	0.0001073	iscu
ENSDARG00000014	0.33729261	0.00186388	abcc2
ENSDARG00000062	0.33657841	0.00436006	egln2
ENSDARG00000025	0.3365381	0.00049932	CCSAP (2 of 2)
ENSDARG00000012	0.33625379	0.00038067	sdcbp2
ENSDARG00000055	0.3347327	0.0023048	CAPN12
ENSDARG00000041	0.3342568	0.00017362	rps25
ENSDARG00000004	0.33419763	0.00236137	mll
ENSDARG00000042	0.33416821	0.00480296	itpka
ENSDARG00000009	0.33360447	5.69E-05	apg3l
ENSDARG00000075	0.33329906	0.00499558	tbc1d25
ENSDARG00000038	0.33286764	0.0026696	cox6c
ENSDARG00000027	0.33275731	6.65E-05	TCP11L2
ENSDARG00000020	0.3325016	4.23E-06	map1lc3b
ENSDARG00000087	0.33243914	0.0009244	SLITRK6
ENSDARG00000021	0.33155845	0.00360559	apaf1
ENSDARG00000060	0.33131206	0.0017159	fam160b2
ENSDARG00000058	0.33130387	0.00431201	MTMR3 (1 of 2)
ENSDARG00000053	0.33071396	0.00057077	ELMSAN1 (1 of 2)
ENSDARG00000060	0.33062887	0.00054382	atxn1b
ENSDARG00000027	0.3306153	2.46E-05	sdpra
ENSDARG00000057	0.33037993	0.00062758	ANO10
ENSDARG00000071	0.32972747	2.70E-05	cica
ENSDARG00000035	0.32937295	0.00141458	ankra2
ENSDARG00000085	0.32928206	0.00430853	AL935186.3
ENSDARG00000028	0.32815331	2.01E-05	bmp1a
ENSDARG00000027	0.32814327	0.00118871	igf1ra
ENSDARG00000019	0.32807366	0.00010041	tmem59
ENSDARG00000018	0.32664379	0.0045245	cyp2v1
ENSDARG00000040	0.32653877	0.00087034	zgc:92606
ENSDARG00000023	0.32562127	0.00179555	gmpab
ENSDARG00000076	0.32484239	2.13E-05	CDIP1
ENSDARG00000078	0.32463205	0.00039118	NBR1 (1 of 2)
ENSDARG00000015	0.32360058	0.00055238	fth1a
ENSDARG00000070	0.32343714	0.004162	nhsa
ENSDARG00000054	0.32231889	4.32E-05	itsn2b
ENSDARG00000077	0.3219394	0.00187328	SPSB3
ENSDARG00000016	0.32178756	0.00254453	SCAMP3
ENSDARG00000002	0.32169729	0.00057901	tjp3

ENSDARG00000068	0.32112186	0.00062227	CASKIN2 (3 of 3)
ENSDARG00000006	0.32060667	0.00081681	RPL38
ENSDARG00000063	0.32053333	0.00330102	OXR1 (2 of 2)
ENSDARG00000058	0.32015052	2.45E-05	desma
ENSDARG00000089	0.32011296	0.00353677	IL17RD (2 of 2)
ENSDARG00000070	0.31985795	0.00126414	crlf3
ENSDARG00000078	0.31971304	0.0001648	MEAF6
ENSDARG00000005	0.31950382	0.00071121	nav3
ENSDARG00000012	0.3194339	0.00371559	slc4a1a
ENSDARG00000052	0.3194338	0.00208647	ppifb
ENSDARG00000042	0.31934352	0.00105121	adipor1b
ENSDARG00000035	0.31881889	0.00461987	enc1
ENSDARG00000036	0.31795977	0.00202323	calcoco1
ENSDARG00000059	0.3179265	0.00396735	raf1b
ENSDARG00000053	0.31791225	0.00468414	carhsp1
ENSDARG00000028	0.31742001	0.00040552	KRT18 (2 of 3)
ENSDARG00000054	0.31732094	0.00302142	stambpa
ENSDARG00000061	0.31672116	0.00023896	myo5aa
ENSDARG00000004	0.31662497	0.00114154	zmat2
ENSDARG00000027	0.31651071	0.00136884	ephb4b
ENSDARG00000002	0.31630459	0.00139145	tbx3
ENSDARG00000013	0.31521289	0.00115623	rfx2
ENSDARG00000024	0.31515599	8.46E-06	pvalb4
ENSDARG00000075	0.31352876	0.0001106	ABCA3
ENSDARG00000044	0.31215929	0.0051553	atg4c
ENSDARG00000074	0.3115315	0.00026877	ptpn5
ENSDARG00000079	0.31128118	1.21E-06	si:ch211-166a6.5
ENSDARG00000054	0.31101786	2.55E-05	CLIP3
ENSDARG00000003	0.30798435	0.00055899	pfas
ENSDARG00000068	0.30771382	0.00431022	trps1
ENSDARG00000055	0.30652647	0.00218877	bambia
ENSDARG00000052	0.30621977	0.00066961	IRS4 (1 of 2)
ENSDARG00000024	0.30559615	0.00217382	CDK5RAP2
ENSDARG00000017	0.30515041	0.00490556	vps13d
ENSDARG00000045	0.3044622	0.00145991	rassf8b
ENSDARG00000015	0.30410192	0.00144791	-
ENSDARG00000004	0.30374046	0.00078394	ddr2l
ENSDARG00000036	0.30192032	0.00031598	st8sia5
ENSDARG00000017	0.30147689	0.00096031	f11r
ENSDARG00000070	0.30121391	0.00014713	ubr2
ENSDARG00000056	0.30064358	0.00189077	FYCO1 (1 of 2)

ENSDARG00000012	0.30031067	0.00013976	taldo1
ENSDARG00000074	0.29899773	0.00043262	CR381676.2
ENSDARG00000042	0.29860728	0.00013426	tmem189
ENSDARG00000039	0.29694609	0.0004774	tefa
ENSDARG00000005	0.29676975	0.00314305	cyb5r3
ENSDARG00000075	0.29669962	0.00532479	akap11
ENSDARG00000074	0.29650743	0.00399817	sema4ba
ENSDARG00000058	0.29628465	0.00194983	zgc:171775
ENSDARG00000022	0.29595734	3.82E-05	zgc:175214
ENSDARG00000041	0.29542241	0.000364	uba52
ENSDARG00000076	0.29485603	0.00062361	RAI1
ENSDARG00000005	0.29472378	0.00061382	limk2
ENSDARG00000002	0.29400507	0.00407145	tbcela
ENSDARG00000001	0.29200548	0.00050727	RBM14 (1 of 2)
ENSDARG00000002	0.29090259	0.00226835	sema6d
ENSDARG00000004	0.29084756	0.00100986	ppp1r13ba
ENSDARG00000060	0.29082559	0.00192768	tecpr2
ENSDARG00000071	0.29066131	0.00045994	insrb
ENSDARG00000079	0.29059732	0.00358892	POLD4
ENSDARG00000086	0.29026639	0.00326076	bri3
ENSDARG00000069	0.29019602	0.00306795	ppp6r2b
ENSDARG00000029	0.28867502	0.00021684	copeb
ENSDARG00000088	0.28858341	0.00443934	wu:fb55g09
ENSDARG00000043	0.28849229	0.00010723	znf292b
ENSDARG00000042	0.28831363	0.00248889	zgc:100920
ENSDARG00000020	0.288202	0.0054452	btg2
ENSDARG00000039	0.28738999	0.00194014	ppt1
ENSDARG00000076	0.28734593	0.00340672	txlnbb
ENSDARG00000039	0.28726596	0.0004353	AMBRA1 (2 of 2)
ENSDARG00000044	0.28681368	0.00208522	cbx2
ENSDARG00000036	0.28658027	0.00354408	golp3l
ENSDARG00000016	0.2850127	0.00029751	psat1
ENSDARG00000035	0.28475351	0.00092607	gabarapa
ENSDARG00000089	0.2834989	0.00219349	PRRT2
ENSDARG00000027	0.28283257	0.00024552	oxsr1b
ENSDARG00000070	0.2815911	0.00478311	ARID3A
ENSDARG00000075	0.2814562	0.00477454	zfhx4
ENSDARG00000007	0.28077398	0.00104595	sash1a
ENSDARG00000010	0.28073127	9.41E-05	DDX17
ENSDARG00000011	0.27994586	0.00072545	arrb2b
ENSDARG00000005	0.27942959	0.00566864	aph1b

ENSDARG00000070	0.27909047	0.00445048	FAM72B
ENSDARG00000075	0.27868276	7.82E-05	PLEKHG4
ENSDARG00000059	0.27713379	0.00303345	MTSS1
ENSDARG00000093	0.27683512	0.00407442	eif2ak1
ENSDARG00000053	0.27651984	0.00113183	CABZ01086825.1
ENSDARG00000057	0.27648667	0.00439614	PHTF1
ENSDARG00000011	0.27553846	0.00017387	fgfr1a
ENSDARG00000060	0.27488879	0.00261035	cylda
ENSDARG00000037	0.2748626	0.00305905	-
ENSDARG00000039	0.27453971	0.00080676	lgmn
ENSDARG00000044	0.27446544	0.00301431	ATPIF1 (2 of 2)
ENSDARG00000043	0.27411509	0.0018312	akap7
ENSDARG00000038	0.27403722	0.00090421	C3H17orf103
ENSDARG00000075	0.27385848	0.00043052	si:ch73-138n13.1
ENSDARG00000019	0.27312334	0.00062711	zhx3
ENSDARG00000031	0.27286773	6.98E-05	ppdpfb
ENSDARG00000076	0.27273193	0.00356511	znf451
ENSDARG00000021	0.27233638	0.00013269	tob1b
ENSDARG00000063	0.2717266	0.0035775	ctsf
ENSDARG00000036	0.27063233	0.00097471	pitx2
ENSDARG00000017	0.26969882	0.00017514	bcor
ENSDARG00000062	0.26890127	0.00239144	dennd4a
ENSDARG00000009	0.26776454	0.00380442	ANK2 (1 of 2)
ENSDARG00000076	0.26762154	0.00036144	ralgapa1
ENSDARG00000000	0.26728373	0.00026652	slc40a1
ENSDARG00000077	0.26613339	0.00189153	myo9b
ENSDARG00000029	0.26579784	0.000822	rpl34
ENSDARG00000013	0.26492452	0.00229963	SORL1
ENSDARG00000033	0.26453412	0.00247331	phf17
ENSDARG00000089	0.26451527	0.00125056	FCHSD2 (1 of 5)
ENSDARG00000076	0.26370552	0.00059929	prkar1aa
ENSDARG00000024	0.26294376	0.00273284	dscama
ENSDARG00000002	0.26289856	0.00078758	aven
ENSDARG00000055	0.26272283	0.00027319	ptch2
ENSDARG00000012	0.26088977	0.0052756	pdc10b
ENSDARG00000016	0.26083947	0.00102958	ptch1
ENSDARG00000090	0.25853802	0.00027813	TUSC5 (1 of 2)
ENSDARG00000038	0.25818223	0.00064182	scg2b
ENSDARG00000002	0.25723301	0.00089842	zfand5b
ENSDARG00000001	0.25715353	0.00212116	aff4
ENSDARG00000013	0.25702837	0.00045902	GLTSCR2

ENSDARG00000015	0.25583314	0.00472463	nadl1.1
ENSDARG00000024	0.25572856	0.00065193	cdh1
ENSDARG00000088	0.2544964	0.00389085	AMPD2 (1 of 2)
ENSDARG00000043	0.25382107	0.0040765	cldne
ENSDARG00000060	0.25361328	0.00540448	C11H19orf6
ENSDARG00000006	0.25299251	0.00021679	laptm4a
ENSDARG00000007	0.25260778	0.00223476	srgap1
ENSDARG00000045	0.25094404	0.00525472	slc38a2
ENSDARG00000003	0.25017816	0.00049612	prnprs3
ENSDARG00000019	0.25006769	0.00141181	aldocb
ENSDARG00000019	0.24958864	0.00404248	rims2a
ENSDARG00000088	0.24935164	0.00155115	RALGAPB
ENSDARG00000061	0.24563341	0.00316734	EIF2C2
ENSDARG00000056	0.24479761	0.00303221	LAMA1
ENSDARG00000015	0.24418354	0.00210954	daam1a
ENSDARG00000073	0.24415152	0.00452603	quo
ENSDARG00000038	0.24296847	0.00032155	tsc22d1
ENSDARG00000069	0.2422519	0.00154389	flot2b
ENSDARG00000020	0.24147996	0.00225609	sesn1
ENSDARG00000060	0.24144277	0.00530988	ATP8B1
ENSDARG00000036	0.24040582	0.0028668	cebpg
ENSDARG00000039	0.24005884	0.00091462	lamb4
ENSDARG00000026	0.23954935	0.00552148	erbb2
ENSDARG00000060	0.23886079	0.00033994	UACA (1 of 2)
ENSDARG00000089	0.23811856	0.00035105	si:dkey-114c15.7
ENSDARG00000079	0.23685245	0.00196879	maml3
ENSDARG00000009	0.23663125	0.00165376	DUSP8 (1 of 2)
ENSDARG00000068	0.23622583	0.00483658	sirt1
ENSDARG00000006	0.2358419	0.00512037	her6
ENSDARG00000011	0.23553821	0.00166834	anxa1c
ENSDARG00000062	0.23509671	0.00235863	TNKS (1 of 2)
ENSDARG00000011	0.23495354	0.00153331	chuk
ENSDARG00000076	0.23382478	0.00470899	SEZ6L2
ENSDARG00000070	0.23372797	0.00253002	vamp3
ENSDARG00000003	0.23347136	0.00330009	stom
ENSDARG00000077	0.23196138	0.00471437	letm2
ENSDARG00000025	0.23013231	0.00169353	gli2a
ENSDARG00000062	0.23011233	0.00410882	hipk3a
ENSDARG00000012	0.2286156	0.00444557	SNAP23 (1 of 2)
ENSDARG00000009	0.22754495	0.00439144	nr1d2b
ENSDARG00000018	0.22690593	0.00186938	rpl35

ENSDARG00000017	0.2265776	0.00092044	txnrd1
ENSDARG00000051	0.22587766	0.00452857	ist1
ENSDARG00000015	0.2257776	0.00483358	fzr1
ENSDARG00000074	0.22549927	0.0036589	ARFGEF2
ENSDARG00000039	0.22538285	0.00115163	rps24
ENSDARG00000056	0.22392625	0.00352977	pikfyve
ENSDARG00000043	0.2217333	0.00043749	PTBP3
ENSDARG00000068	0.22135043	0.00378498	shmt2
ENSDARG00000060	0.22058712	0.00540517	chd2
ENSDARG00000040	0.21960038	0.00165832	rsl24d1
ENSDARG00000044	0.21840687	0.00482952	rbms3
ENSDARG00000017	0.21824004	0.00382723	npc1
ENSDARG00000062	0.21668437	0.00549552	RNF38
ENSDARG00000010	0.21652087	0.00558824	rpl22l1
ENSDARG00000075	0.2144057	0.00387786	myo18aa
ENSDARG00000078	0.21368358	0.00442641	cxxc5
ENSDARG00000071	0.21337422	0.00420363	ryr3
ENSDARG00000052	0.21307848	0.00526939	SPRED2 (2 of 2)
ENSDARG00000056	0.2124765	0.00179037	tax1bp1b
ENSDARG00000074	0.20700811	0.00310579	limch1a
ENSDARG00000042	0.20678935	0.00475524	PAM
ENSDARG00000010	0.20588007	0.00259776	vim
ENSDARG00000035	0.20215934	0.00392985	rps28
ENSDARG00000075	0.20201393	0.00122993	KLC2
ENSDARG00000053	0.20066413	0.00399939	pnrc2
ENSDARG00000012	0.20012365	0.00277182	zgc:77849
ENSDARG00000062	0.19813039	0.00516641	tet3
ENSDARG00000035	0.19780612	0.00474331	eef2k
ENSDARG00000006	0.18022641	0.00462488	lrp5
ENSDARG00000070	0.17820539	0.00476312	jup
ENSDARG00000060	0.17335818	0.00550414	ADAM22
ENSDARG00000022	-0.1800214	0.00410709	clic4
ENSDARG00000028	-0.1845662	0.00381638	sumo3a
ENSDARG00000021	-0.1864664	0.0046476	cdh11
ENSDARG00000061	-0.1878916	0.00377059	cbx5
ENSDARG00000060	-0.1889177	0.00357675	pmp22b
ENSDARG00000005	-0.1896833	0.00478421	IGFN1 (2 of 3)
ENSDARG00000007	-0.1925466	0.0030357	si:ch211-251b21.1
ENSDARG00000040	-0.1935082	0.00339367	syncrip
ENSDARG00000032	-0.1956962	0.00230532	ktn1
ENSDARG00000034	-0.1965687	0.00261367	top2b

ENSDARG00000008	-0.2012916	0.00403226	marcksb
ENSDARG00000010	-0.2022174	0.00298571	eif4bb
ENSDARG00000000	-0.2025456	0.00486837	myh10
ENSDARG00000051	-0.204102	0.00307008	FNBP4
ENSDARG00000009	-0.2050622	0.00501514	med14
ENSDARG00000001	-0.2054545	0.00410104	STT3B
ENSDARG00000028	-0.2056055	0.00552495	znf238
ENSDARG00000091	-0.2078258	0.00166118	MKI67
ENSDARG00000021	-0.2081297	0.00214102	tnc
ENSDARG00000027	-0.2083946	0.00127461	2-Sep
ENSDARG00000077	-0.2093439	0.00120003	smarca4
ENSDARG00000028	-0.2097046	0.00440685	hmga1a
ENSDARG00000012	-0.2097129	0.0023114	pfn2l
ENSDARG00000044	-0.2108845	0.00461432	rtn4a
ENSDARG00000011	-0.2123474	0.00180543	sfpq
ENSDARG00000044	-0.2126819	0.00206532	kars
ENSDARG00000015	-0.2134576	0.00556187	dlat
ENSDARG00000005	-0.2138018	0.00422699	slc39a10
ENSDARG00000093	-0.2139986	0.00298004	si:ch1073-55a19.2
ENSDARG00000038	-0.2140482	0.00267617	casq1a
ENSDARG00000021	-0.2146102	0.00345437	pabpc1b
ENSDARG00000020	-0.2150349	0.00188745	safb
ENSDARG00000015	-0.2161549	0.00243749	SNAP91 (2 of 2)
ENSDARG00000012	-0.2166706	0.00428562	col5a1
ENSDARG00000002	-0.2181408	0.00244186	ncl
ENSDARG00000023	-0.2186717	0.0017166	tpm4a
ENSDARG00000025	-0.2194824	0.00165491	igfbp5b
ENSDARG00000076	-0.2200232	0.00384297	-
ENSDARG00000077	-0.2214599	0.00102338	SYNPO2L (2 of 2)
ENSDARG00000038	-0.2222157	0.00291919	smc4
ENSDARG00000018	-0.2230825	0.00370176	aldh7a1
ENSDARG00000009	-0.2231029	0.00347764	arf1
ENSDARG00000070	-0.2236841	0.00422666	pa2g4b
ENSDARG00000077	-0.2237577	0.00376536	RBM6
ENSDARG00000053	-0.2246779	0.00317916	itgb1b
ENSDARG00000019	-0.225729	0.00419381	hdgfrp2
ENSDARG00000004	-0.2258289	0.00193555	copa
ENSDARG00000016	-0.2268619	0.00572151	arf1l
ENSDARG00000089	-0.2271635	0.00416146	MYOM2 (3 of 3)
ENSDARG00000019	-0.2272612	0.00430802	mtch2
ENSDARG00000034	-0.2276429	0.00406319	aldoab

ENSDARG00000052	-0.2294924	0.00212734	kpna3
ENSDARG00000057	-0.2295655	0.00048645	chtopa
ENSDARG00000056	-0.2296229	0.00108716	copb1
ENSDARG00000056	-0.2300792	0.0001645	ctcf
ENSDARG00000092	-0.2301553	0.00122241	si:ch211-156j16.1
ENSDARG00000018	-0.2307166	0.0011202	wu:fk48d07
ENSDARG00000063	-0.2309919	0.00534604	mt-nd4l
ENSDARG00000057	-0.2310245	0.00268702	emc1
ENSDARG00000054	-0.2319145	0.00200984	AP2A2
ENSDARG00000025	-0.2320147	0.00516092	prdx2
ENSDARG00000037	-0.2327138	0.00327941	acss2
ENSDARG00000056	-0.2329488	0.00226194	ptenb
ENSDARG00000091	-0.2330242	0.00349118	capn2a
ENSDARG00000071	-0.2332542	0.00247213	smyhc1
ENSDARG00000038	-0.2336589	0.00015988	elavl1
ENSDARG00000053	-0.2342184	0.00094498	fbl
ENSDARG00000036	-0.2343209	0.00513022	CFI
ENSDARG00000057	-0.234376	0.00437655	immt
ENSDARG00000052	-0.234388	0.00237066	dnmt3b
ENSDARG00000037	-0.2344052	0.00268063	kdelr2b
ENSDARG00000015	-0.2345827	0.00135766	hdac1
ENSDARG00000088	-0.2355296	0.00352667	psmd2
ENSDARG00000029	-0.2367311	0.0013116	rab1a
ENSDARG00000043	-0.2372086	0.00525497	gpd1b
ENSDARG00000011	-0.2376318	0.00449271	zgc:66127
ENSDARG00000063	-0.2378631	0.00039301	chd4a
ENSDARG00000037	-0.2378667	0.00039443	uba1
ENSDARG00000010	-0.2401221	0.00038246	igf2bp3
ENSDARG00000063	-0.2401696	0.00185088	bcl11ab
ENSDARG00000019	-0.2402074	0.00077626	COL12A1
ENSDARG00000000	-0.2402649	0.00472376	matr3l1.2
ENSDARG00000090	-0.2402906	0.00067474	MYOM2 (1 of 3)
ENSDARG00000041	-0.240991	0.00078586	hif1a
ENSDARG00000042	-0.2414875	0.00048042	atrx
ENSDARG00000013	-0.2419945	0.00125505	vdac2
ENSDARG00000079	-0.2423719	0.00044359	dhx9
ENSDARG00000021	-0.2425256	0.00412437	CORO1C (2 of 2)
ENSDARG00000032	-0.2425745	0.0007506	ppp1r10
ENSDARG00000020	-0.2426039	0.00074564	cnih
ENSDARG00000052	-0.2428533	0.0044105	ATXN2
ENSDARG00000036	-0.2429426	0.00569661	f2

ENSDARG00000052	-0.2431601	0.00053141	tia1
ENSDARG00000038	-0.2439936	0.0008947	copb2
ENSDARG00000012	-0.2440043	0.0053542	ammecr1
ENSDARG00000068	-0.2453065	0.00502138	sara2
ENSDARG00000055	-0.2453633	0.00216928	pom121
ENSDARG00000076	-0.2456747	0.00448662	ppp4cb
ENSDARG00000086	-0.2479204	0.00294562	MDC1
ENSDARG00000044	-0.2484692	0.0024029	C21H17orf85
ENSDARG00000031	-0.2487162	0.00358768	rcor1
ENSDARG00000074	-0.2487882	0.00116324	eif4g3b
ENSDARG00000005	-0.2491509	0.00070373	map2k6
ENSDARG00000010	-0.2496517	0.00551812	atp1a2a
ENSDARG00000034	-0.2508765	0.00134206	cpsf1
ENSDARG00000056	-0.2510921	0.00190831	nutf2
ENSDARG00000013	-0.2515568	0.00090111	mta2
ENSDARG00000093	-0.2518812	0.00136482	hmgn2
ENSDARG00000044	-0.251935	0.00569248	ppig
ENSDARG00000038	-0.2519668	0.00180425	pccb
ENSDARG00000009	-0.252009	0.00035781	hdlbp
ENSDARG00000070	-0.2523244	0.00309598	TAF15
ENSDARG00000043	-0.2523697	0.00098828	CABZ01014055.1
ENSDARG00000087	-0.2529754	0.00034932	SERBP1 (3 of 3)
ENSDARG00000071	-0.2535704	0.00056495	tgfb1
ENSDARG00000061	-0.2536928	0.0046151	postnb
ENSDARG00000063	-0.2540619	0.00094811	mt-nd5
ENSDARG00000043	-0.2542027	0.00120143	ylpm1
ENSDARG00000052	-0.2549851	0.00459134	suclg1
ENSDARG00000063	-0.2564606	0.00060517	myh9a
ENSDARG00000036	-0.2565287	0.00461052	atp1a3b
ENSDARG00000036	-0.2567806	0.00048876	hnrnpa0b
ENSDARG00000053	-0.2580651	0.00171255	fetub
ENSDARG00000026	-0.2581629	0.00528426	whsc1
ENSDARG00000008	-0.2585412	0.00168278	epas1a
ENSDARG00000089	-0.2588106	4.44E-05	hapln1a
ENSDARG00000011	-0.2595933	0.00516692	ahsa1l
ENSDARG00000042	-0.2597735	0.00231041	acbd3
ENSDARG00000002	-0.2599981	0.00073436	smu1
ENSDARG00000041	-0.2616144	0.00109104	tmem33
ENSDARG00000019	-0.2616949	0.00097069	sparc
ENSDARG00000012	-0.262111	0.00142018	tmem161a
ENSDARG00000044	-0.2623303	0.00487863	suclg2

ENSDARG00000093	-0.2629262	0.00145002	lamc3
ENSDARG00000004	-0.2631735	0.00082472	prkcsh
ENSDARG00000076	-0.2635951	0.00531989	PAQR4 (1 of 2)
ENSDARG00000075	-0.2644667	0.00130263	ARHGGEF2 (1 of 2)
ENSDARG00000007	-0.2647496	0.00348504	aco2
ENSDARG00000013	-0.2651786	0.00196527	ck2a2b
ENSDARG00000035	-0.2659075	0.00118922	dync1li2
ENSDARG00000019	-0.2667163	0.00193192	NRD1 (1 of 2)
ENSDARG00000009	-0.2668821	0.0040392	C17H14orf166
ENSDARG00000054	-0.2675479	0.00297315	ghra
ENSDARG00000058	-0.2680611	0.00347444	smyd1b
ENSDARG00000004	-0.2687388	0.00034259	hnrnpu
ENSDARG00000016	-0.269616	0.00104083	RNF20
ENSDARG00000014	-0.2707255	0.00221324	ranbp1
ENSDARG00000028	-0.2716937	0.00120848	adnp2b
ENSDARG00000058	-0.2720286	0.00398296	sardh
ENSDARG00000023	-0.2726163	0.00182719	anp32b
ENSDARG00000012	-0.2729757	0.0046387	mphosph10
ENSDARG00000003	-0.273086	0.00056447	hnrpdl
ENSDARG00000002	-0.2734216	0.00042152	sdcc2
ENSDARG00000015	-0.2735587	0.00077679	rwdd1
ENSDARG00000036	-0.2735598	0.00172195	CU019646.1
ENSDARG00000093	-0.2747091	0.00566161	sepp1a
ENSDARG00000057	-0.2747383	9.93E-05	srsf1a
ENSDARG00000012	-0.2751437	0.00025676	rap1a
ENSDARG00000054	-0.276398	0.00403216	rfc1
ENSDARG00000036	-0.2774282	0.00168912	hnrnpa1
ENSDARG00000071	-0.2783049	1.59E-05	smyhc2
ENSDARG00000017	-0.2786411	0.00080264	smc2
ENSDARG00000055	-0.2787024	0.00162323	nkrf
ENSDARG00000024	-0.2796108	0.00019944	tnw
ENSDARG00000059	-0.279614	0.0006954	rpn1
ENSDARG00000061	-0.2807839	0.00044024	CABZ01055343.2
ENSDARG00000019	-0.2816341	0.00024726	sema3aa
ENSDARG00000003	-0.2816949	5.83E-05	aqp3a
ENSDARG00000038	-0.2823064	0.00016547	jph1b
ENSDARG00000079	-0.2823102	0.0032004	zgc:162200
ENSDARG00000018	-0.2828581	0.0009757	carm1
ENSDARG00000009	-0.283167	0.00230226	snrpc
ENSDARG00000006	-0.2835717	4.98E-05	rbm25
ENSDARG00000001	-0.2849318	4.54E-05	tuba1l2

ENSDARG00000058	-0.2858841	0.00221667	nop58
ENSDARG00000008	-0.2861117	0.00160652	fkbp4
ENSDARG00000024	-0.2861321	0.00052517	nolc1
ENSDARG00000037	-0.2867416	1.58E-05	canx
ENSDARG00000077	-0.2870369	1.72E-05	snrnp70
ENSDARG00000051	-0.2872848	0.00081499	MMP15 (2 of 2)
ENSDARG00000035	-0.2877872	0.00122898	ptp4a2
ENSDARG00000037	-0.2879376	0.00014496	ddost
ENSDARG00000057	-0.2882415	0.00058994	sap18
ENSDARG00000063	-0.2884283	0.00471239	mt-nd3
ENSDARG00000057	-0.2885383	0.00142032	ptcd3
ENSDARG00000092	-0.2892666	0.00118454	TMSB10 (1 of 2)
ENSDARG00000070	-0.2894419	0.00371172	atad5a
ENSDARG00000038	-0.2897917	0.00235447	acaa2
ENSDARG00000044	-0.2901145	0.00491824	prrc1
ENSDARG00000042	-0.2911449	0.00038837	serpinc1
ENSDARG00000018	-0.291539	0.00026508	larp1
ENSDARG00000039	-0.2916151	0.00284021	nasp
ENSDARG00000043	-0.2930618	0.00054833	sox9b
ENSDARG00000011	-0.2934307	0.00444672	slc26a2
ENSDARG00000056	-0.2939225	0.00263862	ca6
ENSDARG00000028	-0.2941032	7.38E-05	itgb4
ENSDARG00000055	-0.2942918	0.00233198	ruvbl2
ENSDARG00000013	-0.2945016	0.00309461	anxa6
ENSDARG00000053	-0.2946746	0.00054879	hnrnpc
ENSDARG00000090	-0.2947006	0.00565422	pdgfra
ENSDARG00000007	-0.2951155	1.34E-05	cx43.4
ENSDARG00000016	-0.2951981	0.00034265	nup107
ENSDARG00000014	-0.2956879	0.00015092	zgc:77086
ENSDARG00000067	-0.29599	0.00079458	ggcx
ENSDARG00000010	-0.2962949	0.00127533	grpel1
ENSDARG00000020	-0.2965998	0.00018795	srp68
ENSDARG00000007	-0.2967833	0.00019799	actn1
ENSDARG00000074	-0.2977105	0.00024816	GPAM
ENSDARG00000075	-0.2986188	9.15E-05	EIF4G1 (3 of 3)
ENSDARG00000014	-0.2992175	0.0004651	npm1a
ENSDARG00000045	-0.2992456	0.00024734	si:ch211-51e12.7
ENSDARG00000010	-0.2993026	8.55E-05	pank1b
ENSDARG00000059	-0.2994427	0.00354899	cdk11b
ENSDARG00000076	-0.2995261	0.00172103	ACTR3
ENSDARG00000060	-0.3012084	0.0014422	mogs

ENSDARG00000015	-0.3017664	0.0003625	znf207b
ENSDARG00000044	-0.3025545	0.00072498	zranb2
ENSDARG00000018	-0.3026479	0.00197422	crtap
ENSDARG00000006	-0.3027286	0.00091033	ppp2r2a
ENSDARG00000086	-0.3030118	0.00031439	NAT16
ENSDARG00000059	-0.3036277	0.00217402	mlec
ENSDARG00000055	-0.3038106	0.00118932	C3H16orf72
ENSDARG00000002	-0.3045391	0.00035573	ruvbl1
ENSDARG00000024	-0.3052467	3.26E-05	emilin1a
ENSDARG00000006	-0.3057185	3.81E-05	EIF4G1 (1 of 3)
ENSDARG00000062	-0.3064194	0.0001854	edc4
ENSDARG00000036	-0.306631	3.22E-05	hnrnpa0l
ENSDARG00000016	-0.3070556	0.00141355	eif4enif1
ENSDARG00000029	-0.3071212	0.00041426	rbb4
ENSDARG00000054	-0.3077487	0.0020961	uggt1
ENSDARG00000051	-0.3077891	0.00088597	ccnb1
ENSDARG00000027	-0.3080251	0.00296472	zgc:165543
ENSDARG00000079	-0.3084212	0.00366282	RLIM
ENSDARG00000015	-0.3086073	0.00169124	ddx39ab
ENSDARG00000061	-0.3091012	0.0035018	CHST6
ENSDARG00000003	-0.3100014	1.48E-05	setb
ENSDARG00000018	-0.3101815	0.00147766	snrpa
ENSDARG00000040	-0.3102181	0.00046126	ldha
ENSDARG00000061	-0.3107931	0.00043606	baz1b
ENSDARG00000091	-0.3109176	0.00074029	pmela
ENSDARG00000063	-0.3109724	5.66E-05	mt-nd2
ENSDARG00000041	-0.311052	0.00042159	tsc22d2
ENSDARG00000023	-0.3111451	3.14E-05	cdv3
ENSDARG00000007	-0.3114561	0.00146763	nfkbiab
ENSDARG00000093	-0.3117534	0.00347235	-
ENSDARG00000020	-0.31214	0.00524772	prkg1a
ENSDARG00000070	-0.3126705	0.00376726	eny2
ENSDARG00000088	-0.312713	0.00189087	thoc1
ENSDARG00000011	-0.3128108	5.15E-06	mybpc3
ENSDARG00000031	-0.3137607	0.00150624	srpk1b
ENSDARG00000010	-0.3144039	0.00030773	prmt1
ENSDARG00000022	-0.3147118	2.64E-05	rbm4.3
ENSDARG00000004	-0.314718	0.0004311	sel1l
ENSDARG00000087	-0.314829	0.00487449	znf574
ENSDARG00000007	-0.3154529	0.00010127	hnrnpab
ENSDARG00000035	-0.3157138	0.00279122	mfsd2ab

ENSDARG00000091	-0.3160941	0.0018586	foxc1a
ENSDARG00000012	-0.3161953	0.00279631	adssl
ENSDARG00000040	-0.3172159	0.00106755	kpnb3
ENSDARG00000061	-0.3174009	0.00355074	LMLN
ENSDARG00000090	-0.3179563	1.08E-05	serpina1
ENSDARG00000042	-0.3180115	0.00293105	UTP14C
ENSDARG00000015	-0.3184832	0.00548659	MPP3 (1 of 2)
ENSDARG00000079	-0.3186315	2.92E-05	vmhc
ENSDARG00000018	-0.3189259	0.00063033	sf3b4
ENSDARG00000003	-0.3189556	0.00353786	clock3
ENSDARG00000019	-0.3191697	0.00121936	pdlim1
ENSDARG00000041	-0.3197988	0.00336465	ceacam1
ENSDARG00000062	-0.320072	0.00333777	frem1b
ENSDARG00000016	-0.3201586	0.00022316	dkc1
ENSDARG00000014	-0.3204715	0.00019938	rrm1
ENSDARG00000076	-0.3209445	0.00082453	sec61b
ENSDARG00000058	-0.3210412	0.00251349	ugcg
ENSDARG00000008	-0.321973	0.00142799	prkcba
ENSDARG00000030	-0.3220439	0.00557848	acads
ENSDARG00000008	-0.3220906	0.00158159	pole3
ENSDARG00000091	-0.3221776	0.0001107	MYOM1
ENSDARG00000071	-0.3224088	0.00414386	EEF1E1
ENSDARG00000043	-0.3227548	0.00104603	slc1a3b
ENSDARG00000017	-0.3230474	0.00011673	prss35
ENSDARG00000079	-0.3231848	0.00067089	DCLK2 (3 of 3)
ENSDARG00000044	-0.3233333	0.00084526	padi2
ENSDARG00000002	-0.323352	6.87E-07	mapre1b
ENSDARG00000040	-0.3233536	0.00220584	gpd1l
ENSDARG00000042	-0.3235494	0.00310481	chrac1
ENSDARG00000044	-0.323618	1.85E-06	lmnb1
ENSDARG00000089	-0.3236239	2.93E-05	akap8l
ENSDARG00000002	-0.3240803	1.20E-06	arcn1a
ENSDARG00000055	-0.3243879	0.00348876	acad9
ENSDARG00000078	-0.3248595	0.00140818	si:ch211-80h18.1
ENSDARG00000005	-0.3254462	8.84E-05	ssr2
ENSDARG00000014	-0.3257471	0.00086928	g3bp2
ENSDARG00000016	-0.3257928	0.00036958	fxr2
ENSDARG00000031	-0.3260899	0.00037053	abcf1
ENSDARG00000016	-0.3262536	0.00169337	gys1
ENSDARG00000029	-0.3263836	0.00031436	ssb
ENSDARG00000070	-0.3266755	0.00129486	tnrc5

ENSDARG00000036	-0.3266921	6.45E-05	gatm
ENSDARG00000005	-0.3267237	3.02E-05	ahcy
ENSDARG00000069	-0.3268591	0.00175632	cldnh
ENSDARG00000008	-0.3270602	0.00538451	tfap2e
ENSDARG00000056	-0.3273079	8.26E-05	epyc
ENSDARG00000058	-0.3273664	0.00097103	bin1
ENSDARG00000057	-0.3276224	0.00313891	leprel4
ENSDARG00000057	-0.3279982	0.00226804	prep
ENSDARG00000090	-0.3282273	9.10E-06	zgc:86896
ENSDARG00000015	-0.3286294	0.00197164	creb3l1
ENSDARG00000002	-0.3291393	1.95E-05	tnnt2d
ENSDARG00000069	-0.3293225	0.00170019	crygm2d8
ENSDARG00000013	-0.3308641	8.51E-05	tdg
ENSDARG00000041	-0.3314838	0.00018775	ces2
ENSDARG00000068	-0.331577	0.00353541	ptgesl
ENSDARG00000054	-0.3320194	6.66E-06	ccdc47
ENSDARG00000019	-0.3324134	0.00055552	CR354540.2
ENSDARG00000087	-0.33247	0.00110904	si:ch211-212n6.17
ENSDARG00000033	-0.3327915	0.00076091	tagln2
ENSDARG00000015	-0.3328999	2.50E-05	HNRNPU (2 of 2)
ENSDARG00000070	-0.3335688	0.00549631	fam132a
ENSDARG00000076	-0.3337573	0.00017252	atp1b1b
ENSDARG00000031	-0.3338243	0.00012305	seta
ENSDARG00000004	-0.3348579	0.00550606	hspa4a
ENSDARG00000029	-0.3353466	7.44E-07	impdh1b
ENSDARG00000005	-0.3365056	8.05E-08	kdelr2a
ENSDARG00000012	-0.3365727	8.78E-05	eftud2
ENSDARG00000012	-0.3372261	0.0002768	scp2a
ENSDARG00000034	-0.3372669	0.00194267	col27a1a
ENSDARG00000057	-0.337859	0.00045353	papss1
ENSDARG00000052	-0.3379609	0.00067294	tbl3
ENSDARG00000045	-0.3383927	0.00030072	vsg1
ENSDARG00000043	-0.3392087	2.35E-05	lrpprc
ENSDARG00000044	-0.3392185	0.00443196	cstf1
ENSDARG00000038	-0.3402283	0.00512551	rad50
ENSDARG00000045	-0.3407419	0.00279984	nans
ENSDARG00000044	-0.341502	0.00411641	gxylt2
ENSDARG00000037	-0.3428203	0.00369501	pwp2h
ENSDARG00000063	-0.3428495	1.42E-05	mt-nd1
ENSDARG00000052	-0.3429779	0.00018902	pdcd11
ENSDARG00000079	-0.3431742	1.97E-06	supt16h

ENSDARG00000019	-0.3436557	1.35E-05	etnk1
ENSDARG00000039	-0.3439747	0.00053494	tyr
ENSDARG00000036	-0.3443529	0.00027967	txnl4a
ENSDARG00000061	-0.3449494	0.00399383	lap3
ENSDARG00000042	-0.34521	0.00315617	klf2a
ENSDARG00000042	-0.3454389	0.00357752	aqp11
ENSDARG00000033	-0.3458224	0.00508889	NOP14
ENSDARG00000055	-0.3471069	0.00528693	pelo
ENSDARG00000040	-0.3471124	0.00011103	CDC37
ENSDARG00000036	-0.3473472	7.70E-07	col18a1
ENSDARG00000013	-0.3479614	0.00046957	THOP1
ENSDARG00000059	-0.3482637	0.00403012	nol6
ENSDARG00000052	-0.3484784	0.00217267	fgfr11b
ENSDARG00000074	-0.3485022	0.00493629	aurkaip1
ENSDARG00000062	-0.3489666	0.00016232	uggt2
ENSDARG00000052	-0.3489894	2.10E-05	tpra
ENSDARG00000092	-0.349011	6.77E-06	ppib
ENSDARG00000087	-0.3491379	0.00107366	znf648
ENSDARG00000063	-0.349726	0.00031357	nup210
ENSDARG00000027	-0.3497775	7.33E-05	tgfb2
ENSDARG00000079	-0.3502379	0.00177126	zgc:174877
ENSDARG00000004	-0.3507269	0.00070672	mtdhb
ENSDARG00000036	-0.3509825	3.61E-05	ifrd2
ENSDARG00000009	-0.35101	6.85E-06	caprin1a
ENSDARG00000013	-0.3515643	0.00190347	g6pca.2
ENSDARG00000031	-0.3518304	8.15E-06	COL5A2 (1 of 2)
ENSDARG00000086	-0.3529417	0.00103985	STBD1
ENSDARG00000007	-0.3529793	0.00384084	MRT04
ENSDARG00000018	-0.3548765	0.00124728	UTP20
ENSDARG00000029	-0.3553467	0.00020288	slc25a12
ENSDARG00000090	-0.3556821	0.00020007	myh6
ENSDARG00000054	-0.355894	0.00106257	rars
ENSDARG00000076	-0.3561936	0.00508084	FAM198A
ENSDARG00000069	-0.3562648	0.00013494	tmco1
ENSDARG00000055	-0.356983	0.00085191	pygma
ENSDARG00000008	-0.3577993	0.00087083	hprr1
ENSDARG00000025	-0.3581281	0.00358948	plekhg5a
ENSDARG00000005	-0.3582483	0.00149528	sec61a12
ENSDARG00000009	-0.3585912	2.74E-05	col16a1
ENSDARG00000068	-0.3585989	0.00021126	slc16a1
ENSDARG00000056	-0.3587856	0.00013332	tyrp1b

ENSDARG00000009	-0.358902	0.00148496	mef2cb
ENSDARG00000008	-0.3594041	0.00440015	fgb
ENSDARG00000079	-0.3595495	8.03E-05	gmps
ENSDARG00000042	-0.3596319	0.00217054	tyms
ENSDARG00000041	-0.3606425	0.00030386	tufm
ENSDARG00000013	-0.361133	0.00038938	skiv2l2
ENSDARG00000074	-0.3611991	0.00011185	eif2b5
ENSDARG00000034	-0.361267	0.0046656	cyp2aa3
ENSDARG00000040	-0.3613396	0.00017213	mthfd1b
ENSDARG00000062	-0.3614614	0.00078205	znf652
ENSDARG00000036	-0.3615733	0.0003935	cebpa
ENSDARG00000038	-0.3617654	0.00062986	ergic3
ENSDARG00000005	-0.3620432	3.03E-06	hnrnp1l
ENSDARG00000074	-0.3621079	0.00142457	BNC1
ENSDARG00000075	-0.3623953	0.00348999	mkxa
ENSDARG00000070	-0.3630324	3.61E-05	tuba8l3
ENSDARG00000054	-0.3632587	4.11E-05	anp32e
ENSDARG00000079	-0.3636375	0.00066199	sap130b
ENSDARG00000067	-0.3639558	5.06E-05	nmrk2
ENSDARG00000074	-0.3643635	9.22E-05	hlfa
ENSDARG00000029	-0.3645973	2.61E-05	ilf3b
ENSDARG00000070	-0.3651479	0.00362694	crip2
ENSDARG00000033	-0.3651975	0.00323988	polr2c
ENSDARG00000062	-0.3653294	0.00148473	LMOD3
ENSDARG00000056	-0.3656244	0.00011712	PCOLCE (1 of 2)
ENSDARG00000057	-0.3663557	5.30E-05	pgam2
ENSDARG00000069	-0.3669152	0.00020182	col7a1l
ENSDARG00000045	-0.368104	1.94E-05	fkbp10b
ENSDARG00000071	-0.3681434	8.98E-05	abi3bp
ENSDARG00000036	-0.3683105	0.00262097	ANPEP (4 of 5)
ENSDARG00000025	-0.3687266	0.00057552	srsf3a
ENSDARG00000020	-0.3688605	0.00529633	lpin1
ENSDARG00000036	-0.3690045	0.00026821	rbm4.1
ENSDARG00000016	-0.3697909	0.0002941	kpna1
ENSDARG00000070	-0.3698372	0.00291509	KRTCAP2
ENSDARG00000088	-0.3699372	0.00092352	srp14
ENSDARG00000011	-0.3701181	0.00053278	nae1
ENSDARG00000010	-0.3701561	3.91E-05	slc20a1b
ENSDARG00000038	-0.3705476	1.21E-08	pik3r1
ENSDARG00000070	-0.370567	4.77E-06	top1l
ENSDARG00000017	-0.3711321	0.00048436	zgc:86841

ENSDARG00000034	-0.3714152	0.00500072	atp1b2b
ENSDARG00000071	-0.3721095	0.001315	lrrc39
ENSDARG00000015	-0.372422	1.35E-06	rbb4l
ENSDARG00000057	-0.3724526	2.61E-07	CU306817.2
ENSDARG00000040	-0.3725601	1.38E-05	ssr1
ENSDARG00000071	-0.3726158	0.00314865	ndc80
ENSDARG00000088	-0.3727353	0.00336694	tmem104
ENSDARG00000036	-0.3727867	0.00011531	sema3e
ENSDARG00000019	-0.373281	0.00104684	gpt2l
ENSDARG00000078	-0.3737082	7.00E-05	COL22A1
ENSDARG00000061	-0.3737204	0.00469917	tbc1d2b
ENSDARG00000005	-0.374091	0.00017857	smyd2b
ENSDARG00000035	-0.3748328	1.39E-05	-
ENSDARG00000042	-0.3749802	0.00046663	prkrira
ENSDARG00000057	-0.3751526	0.00158725	mrps31
ENSDARG00000077	-0.3752002	0.00021174	cd248b
ENSDARG00000019	-0.375266	0.00014343	parp1
ENSDARG00000043	-0.3754293	9.04E-06	etf1
ENSDARG00000032	-0.3757687	3.77E-05	ddx1
ENSDARG00000060	-0.3765661	0.00110653	scn1ba
ENSDARG00000068	-0.3771118	0.00025306	hapln1b
ENSDARG00000062	-0.3772292	0.0031052	glsa
ENSDARG00000045	-0.3772527	2.26E-07	calua
ENSDARG00000074	-0.377345	0.00057459	LARP4 (2 of 2)
ENSDARG00000006	-0.3774278	0.0049084	glra4a
ENSDARG00000021	-0.3777473	4.70E-07	mybpc2b
ENSDARG00000020	-0.3784132	6.42E-06	col1a2
ENSDARG00000061	-0.3784967	2.57E-06	col6a2
ENSDARG00000056	-0.3790117	5.85E-08	and3
ENSDARG00000059	-0.3796729	6.18E-05	ptrfb
ENSDARG00000039	-0.3800015	5.20E-05	mrpl38
ENSDARG00000020	-0.3800316	6.50E-06	dpp3
ENSDARG00000045	-0.3805193	2.20E-05	lum
ENSDARG00000025	-0.3807649	9.44E-05	pfdn2
ENSDARG00000027	-0.3817292	8.34E-05	hirip3
ENSDARG00000044	-0.3817482	1.20E-06	loxl2b
ENSDARG00000011	-0.3819306	2.41E-05	COL2A1 (2 of 2)
ENSDARG00000040	-0.3820286	3.57E-06	apoa4
ENSDARG00000036	-0.3829165	1.02E-05	slc39a7
ENSDARG00000079	-0.3832085	0.00015799	parp2
ENSDARG00000000	-0.3834103	1.30E-08	pcl

ENSDARG00000009	-0.3843583	3.60E-08	col11a1b
ENSDARG00000010	-0.3845259	0.00286165	slc25a25a
ENSDARG00000043	-0.3851128	4.47E-07	ckbb
ENSDARG00000012	-0.3853215	0.00437255	umps
ENSDARG00000016	-0.3854665	2.52E-05	cdk8
ENSDARG00000069	-0.3856054	8.51E-05	dynll2a
ENSDARG00000043	-0.3861889	0.0012015	znf259
ENSDARG00000012	-0.3862579	2.78E-06	zgc:63663
ENSDARG00000015	-0.3862828	4.49E-06	zc3h15
ENSDARG00000076	-0.3864727	1.88E-06	calr12
ENSDARG00000016	-0.3868249	5.45E-05	rtn2a
ENSDARG00000007	-0.3868684	3.12E-06	abce1
ENSDARG00000069	-0.3869544	3.64E-06	pdia5
ENSDARG00000020	-0.3879083	9.00E-06	ewsr1a
ENSDARG00000006	-0.3885368	4.82E-08	dct
ENSDARG00000013	-0.3887955	9.71E-06	rrbp1a
ENSDARG00000052	-0.3890499	8.44E-09	p4hb
ENSDARG00000053	-0.3902513	1.23E-05	itm1
ENSDARG00000012	-0.3903274	3.74E-06	col11a2
ENSDARG00000068	-0.3904836	0.00152308	pdlim4
ENSDARG00000021	-0.3912236	2.60E-05	sec31a
ENSDARG00000041	-0.3916352	2.22E-07	rrbp1b
ENSDARG00000007	-0.3919438	8.31E-05	ehd3
ENSDARG00000006	-0.3924255	0.00354813	CRELD1 (1 of 2)
ENSDARG00000044	-0.3926653	0.00030804	nol8
ENSDARG00000060	-0.3932876	0.00071563	dis3
ENSDARG00000043	-0.3936862	0.00026657	nop2
ENSDARG00000019	-0.3937331	2.57E-05	sec23b
ENSDARG00000027	-0.3937602	0.00461721	ccne2
ENSDARG00000015	-0.3942891	0.00325189	cx44.1
ENSDARG00000006	-0.3946798	1.31E-06	AEBP1 (2 of 2)
ENSDARG00000059	-0.3957261	0.00438546	-
ENSDARG00000014	-0.3960601	0.00167424	dgkza
ENSDARG00000016	-0.3964546	0.00035193	CRAT (2 of 2)
ENSDARG00000005	-0.3968146	2.21E-05	calub
ENSDARG00000006	-0.3970002	2.37E-05	cse1l
ENSDARG00000032	-0.3971984	5.78E-07	tob1a
ENSDARG00000053	-0.3975977	0.00450199	lmo7b
ENSDARG00000088	-0.3982325	8.03E-05	lman2lb
ENSDARG00000017	-0.3995316	2.00E-05	krt4
ENSDARG00000003	-0.3997431	0.00234508	unc45a

ENSDARG00000026	-0.3999132	1.55E-07	col11a1a
ENSDARG00000056	-0.4000287	9.48E-07	hsdp1
ENSDARG00000020	-0.4005465	0.00222953	ODF2 (2 of 2)
ENSDARG00000021	-0.4007449	2.36E-05	st8sia6
ENSDARG00000071	-0.4015959	0.00272779	actn2
ENSDARG00000057	-0.4035434	8.69E-06	hadhaa
ENSDARG00000074	-0.4035628	0.00018468	tbrg4
ENSDARG00000055	-0.4043907	0.00106681	mcmbp
ENSDARG00000006	-0.4047615	0.00063732	fn1b
ENSDARG00000010	-0.4049788	3.46E-06	cp
ENSDARG00000057	-0.4059216	3.19E-05	HADHB
ENSDARG00000060	-0.4060325	0.00016761	nom1
ENSDARG00000028	-0.4064138	1.67E-06	pcca
ENSDARG00000057	-0.406598	0.00310503	C1H4orf27
ENSDARG00000006	-0.4067443	2.00E-07	tuba8l4
ENSDARG00000031	-0.4068306	0.00209188	tim50
ENSDARG00000011	-0.4069075	0.00024661	msh6
ENSDARG00000017	-0.4069085	0.00184559	tmed1b
ENSDARG00000039	-0.407697	1.08E-07	pa2g4a
ENSDARG00000002	-0.407762	0.00222513	CEP135
ENSDARG00000026	-0.4078026	0.00048674	syncrpl
ENSDARG00000005	-0.4078918	5.29E-06	atp2a2b
ENSDARG00000076	-0.4086423	0.00468213	mtp
ENSDARG00000035	-0.4087961	2.54E-08	stm
ENSDARG00000035	-0.4107379	0.00043699	surf4l
ENSDARG00000075	-0.4107458	0.00031223	cfh
ENSDARG00000075	-0.4109758	6.17E-08	ppm1g
ENSDARG00000041	-0.4115378	0.00211159	rrp9
ENSDARG00000020	-0.4124883	0.00011537	ezrl
ENSDARG00000091	-0.4137921	0.00547056	TTF1 (5 of 6)
ENSDARG00000069	-0.4138722	1.40E-08	hmg2
ENSDARG00000023	-0.4141428	0.00446282	snrnp40
ENSDARG00000079	-0.4148754	1.21E-06	cd248a
ENSDARG00000070	-0.4159653	5.68E-05	rcn1
ENSDARG00000019	-0.4176297	0.00030492	tram1
ENSDARG00000061	-0.4188441	3.63E-07	sgpl1
ENSDARG00000012	-0.4191753	6.46E-05	vmp1
ENSDARG00000060	-0.4192656	0.00038703	col8a2
ENSDARG00000019	-0.4194467	0.00132742	mpx
ENSDARG00000039	-0.4195976	0.00104133	prom2
ENSDARG00000030	-0.4196462	0.00010239	ctps1a

ENSDARG00000045	-0.4208541	0.00032925	arf4a
ENSDARG00000060	-0.4225279	6.18E-08	hadhab
ENSDARG00000024	-0.4231916	1.24E-06	col9a2
ENSDARG00000055	-0.4232651	1.53E-05	CR925817.1
ENSDARG00000010	-0.4234424	0.00021326	ezh2
ENSDARG00000058	-0.4239595	1.14E-05	tim13
ENSDARG00000076	-0.4242925	8.17E-06	emid1
ENSDARG00000018	-0.4248908	4.44E-05	msh2
ENSDARG00000000	-0.425709	4.74E-11	KRT23 (1 of 15)
ENSDARG00000053	-0.4259842	0.00111411	cmyb
ENSDARG00000030	-0.426899	0.00117027	mybl1
ENSDARG00000095	-0.426974	6.00E-05	myha
ENSDARG00000020	-0.42894	0.00124436	OTOF (2 of 2)
ENSDARG00000058	-0.4291553	1.92E-05	pdcd8
ENSDARG00000016	-0.4294997	0.00019701	bcan
ENSDARG00000052	-0.431864	1.31E-08	smarca5
ENSDARG00000004	-0.4319537	1.86E-05	tnfsf10l
ENSDARG00000063	-0.4324163	3.79E-07	ch1073-291c23.1
ENSDARG00000019	-0.4326139	0.00267417	idi1
ENSDARG00000008	-0.43342	0.00046062	e2f7
ENSDARG00000058	-0.4334281	0.0010721	chtf18
ENSDARG00000076	-0.4336114	5.92E-09	si:dkey-65b12.6
ENSDARG00000012	-0.4337327	3.06E-07	col1a1a
ENSDARG00000037	-0.4341023	3.12E-05	fgg
ENSDARG00000078	-0.4350304	0.00498308	fam98a
ENSDARG00000016	-0.4350334	0.00231168	CCDC39
ENSDARG00000019	-0.4358524	1.03E-05	cmpk
ENSDARG00000079	-0.4368519	0.00196595	DHX32 (2 of 2)
ENSDARG00000039	-0.4371727	3.40E-05	ptp4a3
ENSDARG00000068	-0.4377758	2.54E-08	psmd7
ENSDARG00000036	-0.4379889	2.60E-05	tomm40l
ENSDARG00000003	-0.4379943	0.00144794	col4a3
ENSDARG00000014	-0.4380178	1.57E-06	pfkfa
ENSDARG00000017	-0.4406457	0.00018585	adsl
ENSDARG00000004	-0.441931	0.001092	wdr36
ENSDARG00000074	-0.442436	7.12E-05	si:ch73-138e16.6
ENSDARG00000038	-0.4430274	2.60E-07	ddx5
ENSDARG00000069	-0.4435045	0.00026896	esrra
ENSDARG00000003	-0.4436878	0.0003896	wdr12
ENSDARG00000020	-0.4446174	8.92E-06	fbp1b
ENSDARG00000055	-0.4447096	1.09E-06	acta1b

ENSDARG00000038	-0.4450443	0.00036494	entpd4
ENSDARG00000037	-0.4465859	0.00480509	CLEC19A
ENSDARG00000093	-0.4471539	0.004591	si:dkey-117n7.2
ENSDARG00000090	-0.4481578	0.00405519	NAT14
ENSDARG00000035	-0.4486993	7.42E-07	col1a1b
ENSDARG00000030	-0.4490131	1.53E-07	zgc:152873
ENSDARG00000078	-0.4493136	0.00508554	si:ch211-197l9.2
ENSDARG00000056	-0.4502725	2.55E-07	a2ml
ENSDARG00000007	-0.4505963	2.56E-06	fabp7a
ENSDARG00000031	-0.4509334	0.00164179	sap30bp
ENSDARG00000040	-0.4511673	5.89E-05	rx2
ENSDARG00000054	-0.4513425	3.68E-06	loxl1
ENSDARG00000037	-0.4514314	0.00171489	rpa2
ENSDARG00000075	-0.451677	0.00286153	adamts22
ENSDARG00000058	-0.4529582	1.85E-05	sephs1
ENSDARG00000069	-0.4531417	1.54E-07	col2a1a
ENSDARG00000010	-0.4542611	4.75E-05	sarm1
ENSDARG00000024	-0.4545624	2.60E-05	mrps18a
ENSDARG00000037	-0.4559557	1.14E-07	ptges3a
ENSDARG00000069	-0.4559632	0.00142388	prdx4
ENSDARG00000019	-0.4581888	0.00229317	oatx
ENSDARG00000070	-0.4583045	0.0002865	fam212aa
ENSDARG00000005	-0.4588786	0.00389904	AL929150.1
ENSDARG00000059	-0.458903	0.00015701	MYOM3
ENSDARG00000024	-0.4608705	0.00388448	ptgr1
ENSDARG00000007	-0.4615136	0.00239243	re1t
ENSDARG00000045	-0.4627568	1.49E-07	EGFL6
ENSDARG00000076	-0.4628389	0.00019819	si:ch211-55g3.6
ENSDARG00000074	-0.465111	0.00050439	ZCCHC6
ENSDARG00000063	-0.4652209	5.65E-06	lrrc58b
ENSDARG00000006	-0.4653377	1.04E-05	pdgfrl
ENSDARG00000037	-0.4653384	3.15E-05	gcdh
ENSDARG00000017	-0.4656904	7.09E-09	HNRNPAB (2 of 2)
ENSDARG00000008	-0.4657716	4.57E-05	unc45b
ENSDARG00000015	-0.4659535	0.00103606	pola2
ENSDARG00000071	-0.4666514	4.26E-08	AL929007.1
ENSDARG00000036	-0.4667447	1.21E-09	acta1a
ENSDARG00000091	-0.4670674	3.75E-05	gpx7
ENSDARG00000027	-0.4675228	2.76E-06	naa50
ENSDARG00000030	-0.467986	2.09E-06	dnaja1l
ENSDARG00000053	-0.4680071	2.98E-06	HSPA4L

ENSDARG00000009	-0.4681261	1.60E-05	slmo2
ENSDARG00000056	-0.468293	5.88E-05	wu:fb15e04
ENSDARG00000010	-0.4683208	1.40E-05	dpydb
ENSDARG00000051	-0.4684098	0.00030224	pc
ENSDARG00000067	-0.4690411	7.23E-08	myhz1.3
ENSDARG00000076	-0.46931	0.00011182	COL14A1 (2 of 2)
ENSDARG00000012	-0.4699152	2.30E-06	psme3
ENSDARG00000033	-0.4704464	4.77E-08	pmelb
ENSDARG00000016	-0.4706178	7.68E-05	ipo9
ENSDARG00000051	-0.4706209	0.00013426	STX3 (2 of 2)
ENSDARG00000012	-0.4712541	0.00097063	ptpn11b
ENSDARG00000054	-0.4713704	2.28E-08	pcna
ENSDARG00000012	-0.4722409	0.00322011	bcs1l
ENSDARG00000037	-0.4723499	0.00339716	cpb2
ENSDARG00000060	-0.4724234	0.00086746	TSFM
ENSDARG00000054	-0.4725319	0.00060034	nat10
ENSDARG00000003	-0.4726567	5.27E-05	rrs1
ENSDARG00000090	-0.4729426	4.84E-06	pla2g15
ENSDARG00000039	-0.4730759	2.52E-06	c8b
ENSDARG00000032	-0.4732188	0.00077102	tiprl
ENSDARG00000026	-0.4734157	4.79E-12	cotl1
ENSDARG00000079	-0.4738458	2.17E-06	SCARF2
ENSDARG00000053	-0.4749661	0.00027219	kazald3
ENSDARG00000044	-0.475009	0.00047349	pacs1
ENSDARG00000045	-0.4754541	0.00020588	phf5a
ENSDARG00000076	-0.4761575	0.00028514	BX004830.1
ENSDARG00000089	-0.4762493	0.0004502	TNFAIP6 (2 of 2)
ENSDARG00000075	-0.4771682	1.88E-06	cpz
ENSDARG00000031	-0.4776186	3.33E-10	podxl
ENSDARG00000052	-0.4786874	0.00117722	zgc:110789
ENSDARG00000044	-0.479716	0.00207693	CHST7
ENSDARG00000077	-0.4798456	3.35E-06	slc37a4b
ENSDARG00000001	-0.4799075	0.00431319	prkag2
ENSDARG00000076	-0.4804225	0.00271722	ftsj
ENSDARG00000070	-0.4804687	0.00056224	mettl14
ENSDARG00000073	-0.480582	1.01E-07	thbs2b
ENSDARG00000045	-0.4821424	0.00336866	pofut2
ENSDARG00000017	-0.4830673	1.47E-06	gdpd1
ENSDARG00000024	-0.4859946	0.00200064	ANGPTL2 (2 of 3)
ENSDARG00000078	-0.4863808	0.00010876	fam118b
ENSDARG00000012	-0.4871164	0.00016244	rnpep

ENSDARG00000026	-0.4875864	0.00033051	cdk2
ENSDARG00000042	-0.4877068	0.00104398	eef2a.1
ENSDARG00000055	-0.4878547	1.29E-09	asph
ENSDARG00000071	-0.4891761	0.00016749	lrrc59
ENSDARG00000095	-0.4893144	2.31E-10	si:dkey-261h17.1
ENSDARG00000075	-0.4893497	0.0001916	rpap1
ENSDARG00000012	-0.4901911	1.68E-08	c3a
ENSDARG00000073	-0.4906954	0.00120843	CPXM1 (2 of 2)
ENSDARG00000062	-0.490749	0.00027963	SLC12A7 (1 of 2)
ENSDARG00000060	-0.490868	1.54E-07	LIG1
ENSDARG00000055	-0.491393	0.000946	rel
ENSDARG00000037	-0.4914014	3.61E-09	cxcl12a
ENSDARG00000037	-0.4915696	3.58E-08	ssrp1a
ENSDARG00000030	-0.492017	0.00043147	zgc:110191
ENSDARG00000088	-0.49209	0.00068353	MFAP4 (8 of 13)
ENSDARG00000016	-0.4921762	1.02E-08	rbp1a
ENSDARG00000024	-0.4939048	0.00342625	bxdc2
ENSDARG00000069	-0.4942251	7.85E-06	elovl7a
ENSDARG00000071	-0.4950032	3.16E-05	ecm2
ENSDARG00000056	-0.4960442	1.40E-07	papss2b
ENSDARG00000006	-0.497557	1.74E-11	itgav
ENSDARG00000055	-0.4976263	6.24E-07	cmn
ENSDARG00000037	-0.4978182	1.19E-13	tubb5
ENSDARG00000044	-0.497898	0.00241351	bace2
ENSDARG00000038	-0.4994746	0.00230803	ykt6
ENSDARG00000045	-0.5001174	1.32E-08	tuba1
ENSDARG00000036	-0.5002628	0.00012209	zgc:101549
ENSDARG00000055	-0.500301	0.00067813	cdc16
ENSDARG00000007	-0.5019235	3.26E-13	pdia3
ENSDARG00000018	-0.5024838	0.00078624	heg
ENSDARG00000094	-0.5029704	0.00013188	si:dkey-125i10.3
ENSDARG00000076	-0.5032745	0.00221188	stab1l
ENSDARG00000013	-0.5042074	0.00287652	WFIKKN2 (1 of 2)
ENSDARG00000029	-0.5045978	0.0019816	phyhd1
ENSDARG00000009	-0.5068667	1.31E-10	txndc5
ENSDARG00000004	-0.5091753	9.21E-05	nabp1a
ENSDARG00000037	-0.5105786	1.09E-08	col9a3
ENSDARG00000051	-0.5111344	0.00419198	kcnj11
ENSDARG00000068	-0.5128946	3.38E-07	nid1a
ENSDARG00000087	-0.5129837	9.54E-06	si:ch211-11k18.4
ENSDARG00000045	-0.5133743	0.00018546	phb2

ENSDARG00000056	-0.5133975	4.12E-05	arr3a
ENSDARG00000093	-0.514091	0.00142324	crp4
ENSDARG00000010	-0.5146703	1.95E-07	fmodb
ENSDARG00000012	-0.5147827	1.45E-09	dcn
ENSDARG00000001	-0.5154836	7.09E-05	bysl
ENSDARG00000005	-0.5155255	0.00010822	gcat
ENSDARG00000070	-0.5156808	5.22E-05	PRKCD (1 of 2)
ENSDARG00000031	-0.5168889	0.00376721	flvcr1
ENSDARG00000018	-0.5186032	1.04E-06	rhot1a
ENSDARG00000042	-0.5194016	0.00059182	mapk12a
ENSDARG00000005	-0.5207399	3.44E-12	fkbp9
ENSDARG00000008	-0.5207739	1.03E-10	zgc:66479
ENSDARG00000069	-0.5207923	0.00405949	slc35f2
ENSDARG00000021	-0.5220568	4.30E-09	COL4A6
ENSDARG00000009	-0.5221419	7.86E-05	hlx1
ENSDARG00000051	-0.5232465	3.77E-07	stra6
ENSDARG00000057	-0.524323	0.00027348	lyz
ENSDARG00000030	-0.5244181	0.00030727	gnai3
ENSDARG00000074	-0.5248817	0.00076643	si:ch73-220n21.1
ENSDARG00000018	-0.526137	4.35E-05	msrb2
ENSDARG00000012	-0.5265087	0.00119216	zgc:109965
ENSDARG00000087	-0.5268629	3.54E-07	BX842614.2
ENSDARG00000057	-0.5276307	0.00184173	habp2
ENSDARG00000012	-0.5280077	2.49E-09	hcls1
ENSDARG00000017	-0.5283692	0.00015144	pdss1
ENSDARG00000091	-0.5284364	0.00312509	FBXO40 (2 of 2)
ENSDARG00000015	-0.5284728	0.00109118	SLC22A16
ENSDARG00000035	-0.5305348	0.00403093	ins
ENSDARG00000044	-0.5311116	0.00502539	cyp2x7
ENSDARG00000074	-0.5313841	0.00371645	tbl2
ENSDARG00000038	-0.5314545	6.72E-09	tefb
ENSDARG00000094	-0.5317635	0.00070927	si:ch211-255g12.6
ENSDARG00000056	-0.5320048	0.0001124	RAMP1
ENSDARG00000070	-0.5327907	3.66E-05	dnajc2
ENSDARG00000058	-0.5332848	1.97E-06	wfdc1
ENSDARG00000013	-0.5338422	0.00217644	mrpl11
ENSDARG00000040	-0.5354353	3.34E-08	mcm4
ENSDARG00000021	-0.5358222	2.26E-14	c5
ENSDARG00000061	-0.5359729	7.71E-09	srpr
ENSDARG00000091	-0.5369742	9.43E-07	BX088649.1
ENSDARG00000042	-0.5373865	0.0018711	fhl2a

ENSDARG00000017	-0.5385342	1.43E-05	g3bp1
ENSDARG00000070	-0.5392206	2.47E-09	sfrp2
ENSDARG00000011	-0.5394782	9.62E-05	fen1
ENSDARG00000036	-0.5417685	1.38E-10	si:ch211-114n24.6
ENSDARG00000032	-0.5432	0.00172348	macrod2
ENSDARG00000070	-0.5440289	0.00013136	UROC1
ENSDARG00000053	-0.5458699	2.84E-11	aldh1a2
ENSDARG00000032	-0.5465813	0.00021636	htra1a
ENSDARG00000038	-0.5491753	1.54E-07	FGFBP2 (1 of 2)
ENSDARG00000035	-0.5496578	1.11E-05	sdf2l1
ENSDARG00000039	-0.5501711	2.32E-08	drg1
ENSDARG00000016	-0.5502446	4.75E-08	agpat9
ENSDARG00000043	-0.5502523	3.08E-16	calr
ENSDARG00000078	-0.5516553	0.00010988	LIMD2
ENSDARG00000079	-0.5522612	0.00465456	zgc:103519
ENSDARG00000080	-0.5532824	0.00011398	tmem41b
ENSDARG00000088	-0.5537642	3.38E-11	and1
ENSDARG00000070	-0.55461	0.00019715	rbp2a
ENSDARG00000006	-0.5546635	2.64E-06	lta4h
ENSDARG00000038	-0.5550925	0.00094884	tmx3
ENSDARG00000086	-0.5551443	1.27E-06	apoea
ENSDARG00000025	-0.5569239	0.00019026	myo5ab
ENSDARG00000020	-0.5572246	5.26E-09	fga
ENSDARG00000014	-0.5578925	8.29E-06	osr1
ENSDARG00000040	-0.5587954	1.74E-06	mat2aa
ENSDARG00000076	-0.5604664	0.00298942	ddhd2
ENSDARG00000090	-0.5607312	1.16E-06	apof
ENSDARG00000086	-0.5611328	0.00285975	atad3b
ENSDARG00000009	-0.5612537	2.03E-07	pdip5
ENSDARG00000020	-0.5619471	4.58E-07	pck2
ENSDARG00000037	-0.5619523	2.15E-06	rcc1
ENSDARG00000005	-0.5621474	2.34E-05	ERGIC1
ENSDARG00000010	-0.5656449	1.04E-08	SLC12A2 (6 of 6)
ENSDARG00000002	-0.5664458	0.00106366	itga10
ENSDARG00000088	-0.5673908	0.00522377	exosc4
ENSDARG00000010	-0.568985	2.96E-07	fkbp7
ENSDARG00000071	-0.5696671	2.45E-11	lepre1
ENSDARG00000053	-0.5697684	2.14E-05	zgc:113054
ENSDARG00000055	-0.5701992	0.00049366	ACLY
ENSDARG00000054	-0.5705258	8.97E-06	sec13
ENSDARG00000008	-0.5727266	0.00237434	scara3

ENSDARG00000042	-0.5732976	8.13E-07	c7a
ENSDARG00000092	-0.5749511	7.45E-10	si:ch73-46j18.5
ENSDARG00000078	-0.5749699	1.98E-05	vcana
ENSDARG00000037	-0.5754319	5.57E-05	slc7a2
ENSDARG00000022	-0.5770832	4.24E-09	apobl
ENSDARG00000074	-0.5772595	5.39E-06	tgm2b
ENSDARG00000015	-0.5774621	1.19E-05	ca15a
ENSDARG00000027	-0.5783603	3.33E-05	elovl4b
ENSDARG00000021	-0.5785816	0.00442849	prph2l
ENSDARG00000010	-0.5793626	4.03E-07	sae1
ENSDARG00000009	-0.5795352	4.59E-13	vc anb
ENSDARG00000054	-0.5809257	0.00518086	PPP1R14C (2 of 2)
ENSDARG00000038	-0.5822642	3.02E-05	mrpl12
ENSDARG00000062	-0.5846655	3.47E-11	bcl2l13
ENSDARG00000051	-0.5862131	0.00036935	DNAJA4
ENSDARG00000045	-0.5875963	8.45E-08	apex1
ENSDARG00000071	-0.587706	9.16E-07	rgl3a
ENSDARG00000029	-0.5878074	0.00018535	pgp
ENSDARG00000028	-0.5903629	0.00021578	ahsa1
ENSDARG00000042	-0.590697	0.00336769	trmt6
ENSDARG00000063	-0.5921438	6.80E-06	chkb
ENSDARG00000056	-0.5969352	1.36E-10	itgb3a
ENSDARG00000089	-0.5972324	0.00024821	STC2 (2 of 2)
ENSDARG00000057	-0.5978574	4.16E-08	mcm6
ENSDARG00000033	-0.5989382	4.89E-08	rqcd1
ENSDARG00000020	-0.6007161	2.20E-16	calrl
ENSDARG00000017	-0.6024496	6.83E-05	alg6
ENSDARG00000040	-0.6027742	5.68E-08	itgbl1
ENSDARG00000005	-0.6042938	2.42E-08	gpib
ENSDARG00000002	-0.6046689	0.00010651	col4a4
ENSDARG00000094	-0.6061725	0.00185952	si:ch73-199e17.1
ENSDARG00000071	-0.606807	2.43E-05	tuft1b
ENSDARG00000078	-0.6068858	1.09E-08	itga8
ENSDARG00000087	-0.6076448	0.00136382	agxt2
ENSDARG00000007	-0.6079873	0.00569356	RUNDC3A (2 of 2)
ENSDARG00000078	-0.6092339	9.18E-09	fap
ENSDARG00000029	-0.6095992	1.36E-06	atp2a2a
ENSDARG00000036	-0.6099993	9.13E-11	KRT23 (3 of 15)
ENSDARG00000016	-0.6120379	7.55E-09	tfa
ENSDARG00000037	-0.6123123	7.95E-12	hm13
ENSDARG00000087	-0.614258	4.07E-05	CABZ01113191.1

ENSDARG00000086	-0.6143511	0.00517851	CR855307.2
ENSDARG00000039	-0.6162867	2.45E-07	sfrp5
ENSDARG00000040	-0.6169865	2.58E-07	si:dkey-95h12.1
ENSDARG00000002	-0.6182734	7.08E-06	a1cf
ENSDARG00000019	-0.6188998	0.00010633	mcm5
ENSDARG00000090	-0.6193087	0.00390822	WFDC8
ENSDARG00000088	-0.6199551	0.00076553	notum2
ENSDARG00000020	-0.6229731	6.53E-05	cldn11a
ENSDARG00000089	-0.6235135	5.98E-05	COL23A1 (2 of 2)
ENSDARG00000036	-0.6235474	0.00070425	cldn15a
ENSDARG00000037	-0.6245394	1.78E-13	rcn3
ENSDARG00000057	-0.6258671	9.32E-05	dnajc21
ENSDARG00000015	-0.6276238	9.58E-11	dnajb11
ENSDARG00000078	-0.6295077	0.00109527	PLA2G3 (2 of 2)
ENSDARG00000000	-0.6308777	1.50E-08	nr4a1
ENSDARG00000044	-0.632778	4.41E-10	si:ch211-243g18.2
ENSDARG00000015	-0.6336585	1.95E-07	mcm2
ENSDARG00000044	-0.6343653	8.89E-08	angptl3
ENSDARG00000044	-0.6344835	1.35E-07	KRT23 (9 of 15)
ENSDARG00000029	-0.6348336	2.62E-08	creld2
ENSDARG00000071	-0.6350402	2.63E-05	si:dkey-119m7.4
ENSDARG00000040	-0.6351727	0.00031854	CSGALNACT1 (1 of 2)
ENSDARG00000058	-0.636163	1.16E-11	krt5
ENSDARG00000069	-0.6369011	1.67E-06	lman1
ENSDARG00000092	-0.6381576	1.10E-09	apoc2
ENSDARG00000036	-0.639264	1.83E-05	pitpnb
ENSDARG00000069	-0.642259	7.96E-08	tim10
ENSDARG00000043	-0.6427716	0.00078022	RBBP8
ENSDARG00000038	-0.6435061	0.00096551	lgals2b
ENSDARG00000062	-0.6482088	4.06E-11	gpnmb
ENSDARG00000021	-0.6493345	3.99E-07	PRODH2
ENSDARG00000062	-0.6498053	0.00102037	otc
ENSDARG00000002	-0.6500041	1.20E-09	adss
ENSDARG00000055	-0.6536218	8.63E-08	hic1
ENSDARG00000012	-0.6549574	5.14E-07	HPGD
ENSDARG00000091	-0.6559805	1.10E-05	-
ENSDARG00000018	-0.6562675	1.41E-05	dgat2
ENSDARG00000007	-0.6578217	0.00154566	pbk
ENSDARG00000036	-0.6581903	0.0005721	has2
ENSDARG00000074	-0.6583596	8.06E-12	col6a1
ENSDARG00000057	-0.6586456	0.00063299	CR925772.2

ENSDARG00000079	-0.6590218	2.39E-06	E2F2
ENSDARG00000077	-0.6592632	1.05E-05	CR626907.1
ENSDARG00000091	-0.6610111	6.35E-05	si:dkey-17e16.17
ENSDARG00000020	-0.6622561	0.0002395	slc20a1a
ENSDARG00000041	-0.6634648	0.00112428	zgc:113337
ENSDARG00000079	-0.6637817	1.45E-05	utp18
ENSDARG00000015	-0.6663571	7.55E-07	klf3
ENSDARG00000001	-0.6667299	3.78E-06	myhb
ENSDARG00000014	-0.6669984	1.56E-12	anxa1b
ENSDARG00000013	-0.6678875	0.00101688	crispld1b
ENSDARG00000087	-0.6687354	0.00014334	mob1a
ENSDARG00000038	-0.668877	8.66E-05	myl9a
ENSDARG00000069	-0.6695943	1.57E-15	col17a1a
ENSDARG00000079	-0.6706927	0.00258962	dpys
ENSDARG00000088	-0.6723235	0.00219858	NGFR (3 of 3)
ENSDARG00000016	-0.6728439	0.00032825	-
ENSDARG00000011	-0.6742236	1.26E-07	MREG
ENSDARG00000075	-0.6778237	0.00311895	CU896655.3
ENSDARG00000016	-0.6786453	0.00509211	cldn15la
ENSDARG00000075	-0.6798773	2.03E-17	APOB (3 of 3)
ENSDARG00000014	-0.6807441	0.00011737	pkd2
ENSDARG00000069	-0.6819147	5.84E-06	metap2a
ENSDARG00000069	-0.6852167	0.00385542	imp3
ENSDARG00000060	-0.6864285	2.82E-06	pfkmb
ENSDARG00000029	-0.687157	0.00525431	-
ENSDARG00000055	-0.6878899	0.00503722	c1qtnf6a
ENSDARG00000068	-0.6885565	0.00142272	sostdc1a
ENSDARG00000061	-0.6906031	0.00296561	zgc:153409
ENSDARG00000052	-0.6915842	6.91E-06	rcvrna
ENSDARG00000044	-0.6937345	2.11E-06	sc5dl
ENSDARG00000058	-0.6964135	0.00129018	ddr2b
ENSDARG00000077	-0.6997024	0.00553502	dkk3a
ENSDARG00000043	-0.7000166	0.001671	abcg2a
ENSDARG00000056	-0.7041399	0.00037396	cfhl2
ENSDARG00000056	-0.707384	0.00157777	kitb
ENSDARG00000055	-0.708856	6.57E-07	zgc:110377
ENSDARG00000062	-0.7089495	0.00365002	tmem168b
ENSDARG00000004	-0.7099734	0.00119197	hdr
ENSDARG00000069	-0.710182	2.40E-05	CKMT2 (1 of 2)
ENSDARG00000024	-0.7103875	6.44E-09	ITIH4
ENSDARG00000005	-0.7115944	1.14E-05	zgc:158328

ENSDARG00000076	-0.715692	1.32E-07	ptprb
ENSDARG00000001	-0.7179695	0.00345852	CABZ01043017.1
ENSDARG00000063	-0.7184017	2.00E-09	manf
ENSDARG00000051	-0.7191473	0.00019927	HPX (1 of 2)
ENSDARG00000062	-0.7210543	8.90E-05	ITGA2 (1 of 2)
ENSDARG00000069	-0.7216961	9.74E-09	PROCA1
ENSDARG00000071	-0.7248131	7.00E-07	pik3r3a
ENSDARG00000051	-0.7251696	0.00031621	AHCYL2 (2 of 2)
ENSDARG00000035	-0.7257667	2.22E-06	pltp
ENSDARG00000069	-0.727972	2.08E-10	serpinf1
ENSDARG00000019	-0.7286042	1.22E-05	tpm4b
ENSDARG00000069	-0.7292084	1.48E-07	prmt6
ENSDARG00000052	-0.7296559	1.54E-05	caspb
ENSDARG00000018	-0.7310011	1.42E-08	ADK (2 of 2)
ENSDARG00000034	-0.7323518	0.0029551	prkcq
ENSDARG00000057	-0.734417	7.08E-06	hells
ENSDARG00000012	-0.7345005	8.87E-09	fbp2
ENSDARG00000035	-0.7348821	4.74E-12	sat1a
ENSDARG00000055	-0.7353732	1.07E-19	cfb
ENSDARG00000095	-0.7355371	0.00283453	FDXACB1
ENSDARG00000045	-0.7364032	1.81E-06	aqp8a.1
ENSDARG00000077	-0.7390395	7.21E-05	cx44.2
ENSDARG00000044	-0.7403018	3.59E-05	opn1lw2
ENSDARG00000073	-0.7408066	0.00013918	pdzrn3a
ENSDARG00000007	-0.7415588	1.22E-06	cnpy2
ENSDARG00000090	-0.7428846	4.07E-11	PPP1R3A (2 of 2)
ENSDARG00000042	-0.7444011	2.32E-05	ltk
ENSDARG00000038	-0.7448149	1.15E-07	sagb
ENSDARG00000042	-0.7450052	1.12E-06	cyp51
ENSDARG00000035	-0.7451331	1.33E-14	acana
ENSDARG00000052	-0.7462476	4.26E-06	tnmd
ENSDARG00000010	-0.7506301	0.00088267	abcb4
ENSDARG00000004	-0.7544327	0.00171502	zgc:122979
ENSDARG00000036	-0.7547303	3.50E-07	rnasel3
ENSDARG00000090	-0.7550851	5.65E-06	MCM3 (2 of 2)
ENSDARG00000088	-0.7555898	0.00258541	gstm3
ENSDARG00000018	-0.7590364	2.84E-05	mthfd1a
ENSDARG00000002	-0.7607153	2.76E-05	stk25a
ENSDARG00000052	-0.7608073	3.38E-05	hmgcra
ENSDARG00000013	-0.7624658	5.77E-12	hyou1
ENSDARG00000033	-0.7644439	2.39E-14	desi1a

ENSDARG00000007	-0.7658272	5.46E-10	odc1
ENSDARG00000070	-0.7665822	3.74E-05	si:dkey-32e6.6
ENSDARG00000011	-0.7684967	2.88E-05	zgc:64106
ENSDARG00000058	-0.7687592	0.00093854	cdx1b
ENSDARG00000037	-0.769554	0.00197716	sox8
ENSDARG00000052	-0.770162	7.49E-15	igfbp2a
ENSDARG00000041	-0.7739645	2.14E-06	MMADHC (2 of 2)
ENSDARG00000004	-0.774655	3.18E-14	hspa5
ENSDARG00000073	-0.776313	1.87E-14	mrc1a
ENSDARG00000056	-0.7771132	1.95E-15	kera
ENSDARG00000029	-0.7800482	1.60E-16	TYRP1 (2 of 2)
ENSDARG00000027	-0.7846106	2.05E-11	PAPLN (1 of 2)
ENSDARG00000039	-0.7851691	1.79E-06	atp1a1a.3
ENSDARG00000019	-0.7862787	0.00329662	fads2
ENSDARG00000071	-0.7863864	8.11E-05	AGL (3 of 3)
ENSDARG00000057	-0.7870654	8.65E-13	pnp4a
ENSDARG00000077	-0.7925615	6.41E-08	cdca7a
ENSDARG00000062	-0.7942749	1.40E-05	lcat
ENSDARG00000059	-0.7957325	0.00250857	pdk2
ENSDARG00000062	-0.7960079	0.00525108	CADM2 (1 of 2)
ENSDARG00000045	-0.7983258	5.91E-07	mybpc1
ENSDARG00000059	-0.7999474	0.0006864	soat2
ENSDARG00000030	-0.8009196	7.96E-05	slc22a2
ENSDARG00000042	-0.801859	0.00030486	foxl2
ENSDARG00000092	-0.8045839	6.64E-05	si:dkey-61l1.4
ENSDARG00000031	-0.8060639	1.19E-06	hsd20b2
ENSDARG00000086	-0.8066304	5.81E-05	cald1
ENSDARG00000036	-0.8075505	0.00106725	anks4b
ENSDARG00000009	-0.810597	3.85E-05	myh11a
ENSDARG00000043	-0.8115541	0.00078895	TBL2 (2 of 2)
ENSDARG00000056	-0.8142554	0.00272467	per1a
ENSDARG00000004	-0.8158007	1.53E-07	zgc:77375
ENSDARG00000007	-0.8194303	6.69E-06	hsbbp1
ENSDARG00000052	-0.8198709	7.69E-13	hmgcs1
ENSDARG00000041	-0.8219679	2.01E-07	dnajc3
ENSDARG00000001	-0.8230029	1.69E-13	hsd11b2
ENSDARG00000018	-0.8242094	8.12E-18	pdia4
ENSDARG00000016	-0.8267392	5.73E-10	mmp11b
ENSDARG00000089	-0.8325336	6.66E-06	slc16a12b
ENSDARG00000095	-0.8332167	0.00516131	CABZ01079179.1
ENSDARG00000055	-0.8373967	1.96E-18	zgc:136930

ENSDARG00000029	-0.8383102	3.25E-21	pfkfb4l
ENSDARG00000003	-0.841667	1.52E-12	nr1d2a
ENSDARG00000003	-0.8423646	1.10E-17	hsp90b1
ENSDARG00000052	-0.843202	0.00167733	agxta
ENSDARG00000090	-0.8446307	6.59E-23	CABZ01074130.1
ENSDARG00000033	-0.8474103	6.00E-05	ADAMTS15 (2 of 2)
ENSDARG00000014	-0.8476601	3.44E-40	ca2
ENSDARG00000076	-0.8482914	1.92E-06	haao
ENSDARG00000016	-0.8508831	1.83E-16	aglb
ENSDARG00000060	-0.8571873	8.79E-10	apod
ENSDARG00000073	-0.8628887	1.83E-17	-
ENSDARG00000079	-0.8692232	1.03E-10	zgc:86725
ENSDARG00000080	-0.8722984	0.00103851	dre-mir-124-5
ENSDARG00000078	-0.8746976	0.00149422	OGFOD3
ENSDARG00000060	-0.8766699	6.58E-05	lhpp
ENSDARG00000054	-0.8799169	0.00200264	SMOC2 (2 of 2)
ENSDARG00000053	-0.8847764	8.74E-19	slc13a2
ENSDARG00000011	-0.8878844	5.71E-05	trpm1a
ENSDARG00000056	-0.8900813	0.00392343	irf8
ENSDARG00000018	-0.8901042	2.47E-06	hpda
ENSDARG00000058	-0.8948667	6.01E-05	zgc:158846
ENSDARG00000058	-0.8952662	0.00088187	OTOL1 (2 of 2)
ENSDARG00000007	-0.8987093	0.00264389	pdcd2
ENSDARG00000069	-0.8997718	2.08E-08	crygm2d11
ENSDARG00000070	-0.9002495	1.41E-08	prelp
ENSDARG00000076	-0.9023145	1.15E-06	CABZ01102039.1
ENSDARG00000042	-0.9030524	0.00185313	nphs2
ENSDARG00000008	-0.9069737	5.06E-05	camk1gb
ENSDARG00000091	-0.9096518	0.00117749	EMILIN2 (2 of 2)
ENSDARG00000084	-0.9125932	0.00287809	SNORA31
ENSDARG00000074	-0.9131854	0.00551745	-
ENSDARG00000041	-0.9176844	0.00028235	ces3
ENSDARG00000023	-0.9183116	0.00044173	lcp1
ENSDARG00000039	-0.9191457	0.00031122	il13ra2
ENSDARG00000061	-0.921038	5.59E-14	oca2
ENSDARG00000055	-0.9373964	1.15E-17	cxcl12b
ENSDARG00000095	-0.9379388	0.00353987	si:dkey-257h21.1
ENSDARG00000053	-0.9383947	0.00044003	sult2st2
ENSDARG00000071	-0.9412342	0.00287915	lama3
ENSDARG00000052	-0.9414589	1.61E-08	im:7154842
ENSDARG00000061	-0.9441008	0.00119123	SLC25A17

ENSDARG00000034	-0.9500863	0.00027342	UNC119 (2 of 2)
ENSDARG00000039	-0.9545999	1.72E-12	CABZ01076094.1
ENSDARG00000042	-0.9556392	1.62E-29	APOB (1 of 3)
ENSDARG00000010	-0.9639441	5.65E-10	hsp90aa1.1
ENSDARG00000026	-0.9652103	3.77E-06	tmem41ab
ENSDARG00000052	-0.96626	0.00098575	si:ch211-106n13.3
ENSDARG00000022	-0.9739842	0.00244124	GOLT1B (2 of 2)
ENSDARG00000090	-0.9740967	1.78E-25	KRT23 (12 of 15)
ENSDARG00000070	-0.9763246	0.0010177	etnk2
ENSDARG00000038	-0.9783223	4.10E-12	abcf2a
ENSDARG00000035	-0.9784607	0.0038488	tmem167a
ENSDARG00000045	-0.9792264	7.39E-06	acta2
ENSDARG00000003	-0.9807639	1.76E-05	fhl2b
ENSDARG00000037	-0.9822058	2.55E-09	fkbp11
ENSDARG00000055	-0.9849744	0.00021705	mylk4
ENSDARG00000091	-0.9850831	1.63E-16	MYLK4 (1 of 2)
ENSDARG00000069	-0.9904315	1.35E-05	ARID5A (2 of 2)
ENSDARG00000007	-0.9952407	3.20E-14	rpe65a
ENSDARG00000056	-0.9956168	0.00320671	sostdc1b
ENSDARG00000018	-0.998931	0.00014846	TK1 (2 of 2)
ENSDARG00000055	-0.9996585	1.08E-22	BX470254.2
ENSDARG00000043	-1.0057987	2.17E-09	postna
ENSDARG00000087	-1.0076996	2.63E-14	si:ch73-96b22.1
ENSDARG00000045	-1.0123982	0.00049332	opn1sw1
ENSDARG00000039	-1.0155722	0.00077293	rspo1
ENSDARG00000036	-1.0171129	5.28E-18	krt15
ENSDARG00000001	-1.0244538	0.00026869	slc2a1a
ENSDARG00000077	-1.0253362	0.00016836	hs pb6
ENSDARG00000011	-1.0254125	0.00028288	foxn1
ENSDARG00000030	-1.0285807	4.42E-07	matn1
ENSDARG00000069	-1.0305527	0.00491118	tmem179b
ENSDARG00000075	-1.0310828	4.31E-14	defbl1
ENSDARG00000039	-1.0345712	9.45E-16	mat1a
ENSDARG00000015	-1.0403749	3.08E-09	f8
ENSDARG00000007	-1.0475792	3.17E-06	si:ch211-196i2.2
ENSDARG00000093	-1.0490666	5.61E-09	si:dkeyp-106c3.3
ENSDARG00000093	-1.0538204	6.99E-34	rbp2b
ENSDARG00000090	-1.05629	4.88E-11	CR392352.1
ENSDARG00000037	-1.0656496	7.56E-09	lrata
ENSDARG00000062	-1.0823319	4.13E-05	hhip1
ENSDARG00000006	-1.0928414	0.00089181	kcnmb2

ENSDARG00000005	-1.0985773	0.0019986	gdf6b
ENSDARG00000054	-1.1018196	1.66E-20	col10a1
ENSDARG00000001	-1.1200557	4.33E-14	tnxb
ENSDARG00000057	-1.1203264	6.48E-09	enpep
ENSDARG00000038	-1.1282836	1.06E-08	mrc1b
ENSDARG00000055	-1.12839	9.80E-06	mylipb
ENSDARG00000045	-1.1308321	1.67E-10	rlbp1b
ENSDARG00000091	-1.1400589	0.00302856	ANPEP (1 of 5)
ENSDARG00000093	-1.1431913	6.14E-07	si:ch211-89o9.4
ENSDARG00000095	-1.1682121	1.91E-62	si:dkey-9l20.3
ENSDARG00000069	-1.1756118	5.23E-11	phkg1b
ENSDARG00000091	-1.1771384	0.00278581	CAMKMT (1 of 2)
ENSDARG00000043	-1.1786992	2.47E-13	C3 (2 of 6)
ENSDARG00000092	-1.1826064	0.00182518	si:dkey-58f10.12
ENSDARG00000038	-1.1994834	4.00E-21	C4A
ENSDARG00000087	-1.2012013	0.00043527	CR385054.2
ENSDARG00000035	-1.2028428	7.06E-23	entpd3
ENSDARG00000068	-1.2095409	0.0001846	SOX8 (2 of 2)
ENSDARG00000053	-1.2099334	0.00350616	csf1rb
ENSDARG00000056	-1.2169576	4.34E-06	si:dkey-98p3.7
ENSDARG00000059	-1.2278491	0.00453657	oaz2b
ENSDARG00000060	-1.2361697	2.46E-06	im:6903943
ENSDARG00000016	-1.244122	8.28E-30	agt
ENSDARG00000040	-1.244314	9.18E-06	lgals3bpb
ENSDARG00000006	-1.2486879	4.13E-07	star
ENSDARG00000076	-1.2661805	5.45E-08	abhd5
ENSDARG00000017	-1.2662911	0.00377186	opn1sw2
ENSDARG00000078	-1.2702289	0.00020193	zgc:175280
ENSDARG00000009	-1.2730356	1.43E-37	rhbg
ENSDARG00000029	-1.275077	2.64E-08	zdhhc23a
ENSDARG00000095	-1.2766578	1.34E-11	si:dkeyp-106c3.1
ENSDARG00000053	-1.3069499	7.22E-06	angpt2
ENSDARG00000026	-1.3294943	2.56E-08	HEPHL1 (2 of 4)
ENSDARG00000079	-1.3345067	9.04E-36	and2
ENSDARG00000087	-1.3367066	0.0051835	-
ENSDARG00000054	-1.3405543	3.72E-09	slco2b1
ENSDARG00000094	-1.340898	0.00025717	si:dkey-91f15.1
ENSDARG00000076	-1.3543791	8.27E-21	ankrd1b
ENSDARG00000010	-1.3682713	0.00062317	HTRA3
ENSDARG00000058	-1.3736829	8.15E-08	SBK2
ENSDARG00000057	-1.3825581	4.61E-05	zgc:172086

ENSDARG00000039	-1.3831683	0.00201389	st6galnac5a
ENSDARG00000041	-1.3876251	5.10E-06	BX663520.1
ENSDARG00000032	-1.399307	4.90E-07	ugt5g1
ENSDARG00000062	-1.439101	3.00E-07	cyp4v8
ENSDARG00000090	-1.4642647	0.00218492	SGCG (1 of 2)
ENSDARG00000039	-1.467139	1.21E-07	cdf1
ENSDARG00000092	-1.4807507	3.44E-08	si:dkey-22i16.3
ENSDARG00000041	-1.504956	0.00358756	cx28.9
ENSDARG00000003	-1.5115208	0.00448366	lox
ENSDARG00000088	-1.5368236	4.92E-18	wu:fa03e10
ENSDARG00000088	-1.5489102	0.0031121	OTOS
ENSDARG00000089	-1.5518015	0.0027336	gc
ENSDARG00000052	-1.5972622	1.64E-23	thbs4a
ENSDARG00000095	-1.5978834	0.00047733	si:dkey-189h5.6
ENSDARG00000087	-1.6034975	1.12E-09	CABZ01059415.2
ENSDARG00000033	-1.6138798	1.72E-09	zgc:64189
ENSDARG00000040	-1.6206449	1.84E-09	vil1l
ENSDARG00000079	-1.6415925	6.92E-15	SLC46A3 (1 of 2)
ENSDARG00000067	-1.6513932	7.24E-05	prpf4
ENSDARG00000058	-1.6749452	1.32E-05	KRT18 (3 of 3)
ENSDARG00000030	-1.6871172	3.81E-09	phkg1a
ENSDARG00000069	-1.6911113	6.29E-07	gls2
ENSDARG00000052	-1.7047573	9.22E-38	c3c
ENSDARG00000002	-1.7095785	8.55E-32	fabp11b
ENSDARG00000031	-1.7190596	5.11E-66	mb
ENSDARG00000069	-1.7372703	0.00114857	si:rp71-68n21.10
ENSDARG00000035	-1.7691502	7.19E-31	agxt2l1
ENSDARG00000011	-1.7718753	0.00086572	ugt2b3
ENSDARG00000070	-1.7821698	5.69E-05	zgc:112242
ENSDARG00000094	-1.789794	0.00010441	si:dkey-8k3.1
ENSDARG00000069	-1.7919569	7.03E-05	elnb
ENSDARG00000042	-1.857079	1.34E-09	zgc:103681
ENSDARG00000018	-1.8760132	8.14E-06	agxtb
ENSDARG00000056	-1.9185028	1.46E-06	cyp2r1
ENSDARG00000056	-1.9802573	7.44E-15	rgs2
ENSDARG00000029	-2.0203274	2.39E-07	pnp4b
ENSDARG00000069	-2.0504264	0.00236466	P2RY12
ENSDARG00000071	-2.085913	2.44E-14	slc12a10.2
ENSDARG00000038	-2.1266829	0.00240903	cyp2k19
ENSDARG00000014	-2.1327645	3.63E-07	epd
ENSDARG00000092	-2.2610864	0.0003543	si:ch1073-309n14.1

Table S3:

Genes identified by RNA-seq as significantly differentially expressed in 48 hpf embryos exposed to 10 μ M BEZO compared to Control ($p < 0.05$).

Ensembl ID	logFC	PValue	ZF.gene
ENSDARG000000026	7.84903111		0 cyp1a
ENSDARG000000078	7.61980667	4.32E-05	BX323563.1
ENSDARG000000044	4.97268108	2.57E-25	WFIKKN1
ENSDARG000000058	4.88762984		0 cyp1c1
ENSDARG000000087	4.81315551	5.42E-05	zgc:173962
ENSDARG000000018	4.53557691	7.46E-264	cyp1c2
ENSDARG000000052	4.14356046	6.85E-29	ahrrb
ENSDARG000000059	4.07337152	1.23E-34	fgf7
ENSDARG000000068	3.64986257	1.25E-181	cyp1b1
ENSDARG000000091	3.63642805	8.36E-07	lepa
ENSDARG000000057	2.96630342	3.02E-13	gstp2
ENSDARG000000088	2.89597767	1.14E-05	CABZ01045617.1
ENSDARG000000087	2.88302257	1.45E-08	PTGR1 (2 of 2)
ENSDARG000000093	2.83696303	4.59E-10	pth1a
ENSDARG000000037	2.70609069	1.88E-07	WIPI1 (2 of 2)
ENSDARG000000073	2.70566051	2.23E-06	si:ch211-202h22.7
ENSDARG000000076	2.65451045	2.35E-13	si:ch211-14a17.10
ENSDARG000000093	2.6062234	4.31E-06	FP015791.1
ENSDARG000000089	2.54959173	0.00017881	RNaseP_nuc
ENSDARG000000003	2.490155	2.45E-20	ctsl.1
ENSDARG000000007	2.37785348	2.39E-19	tcap
ENSDARG000000005	2.36131602	4.38E-127	gstp1
ENSDARG000000015	2.35148892	8.62E-10	fosl1a
ENSDARG000000070	2.30118991	1.28E-05	cyp24a1
ENSDARG000000096	2.21220323	1.83E-06	ved
ENSDARG000000028	2.1696794	2.65E-24	TPMT (2 of 2)
ENSDARG000000088	2.16206104	0.00279478	cox5aa
ENSDARG000000074	2.07239322	1.05E-12	DHRS13 (2 of 5)
ENSDARG000000022	2.05716958	9.23E-15	ocstamp
ENSDARG000000058	2.01885586	6.26E-77	prdx1
ENSDARG000000086	2.01884874	4.37E-71	sult6b1
ENSDARG000000061	2.01789021	8.01E-63	zgc:158614
ENSDARG000000059	2.01496933	2.28E-05	slc25a38a
ENSDARG000000079	1.98483243	0.00136466	si:dkey-204l11.1
ENSDARG000000061	1.97960792	3.12E-52	CABZ01041812.1
ENSDARG000000038	1.94908237	3.34E-13	s100z
ENSDARG000000078	1.87404723	2.41E-12	si:ch211-202h22.8
ENSDARG000000088	1.87306952	0.00013601	CABZ01111936.2
ENSDARG000000031	1.87184424	4.86E-08	fos
ENSDARG000000019	1.87010623	3.44E-72	gsr

ENSDARG00000016	1.86130419	4.82E-11	dhrs13l1
ENSDARG00000055	1.81999588	7.49E-19	TPMT (1 of 2)
ENSDARG00000075	1.80414139	8.39E-80	sqstm1
ENSDARG00000021	1.77075226	1.35E-70	cbr1l
ENSDARG00000056	1.74836649	5.74E-54	pir
ENSDARG00000086	1.7481652	0.00203091	sult2st1
ENSDARG00000077	1.74682067	9.07E-06	slc2a5
ENSDARG00000089	1.73523314	4.77E-34	sepw2b
ENSDARG00000086	1.72599388	1.48E-25	CABZ01067657.1
ENSDARG00000078	1.71830083	5.96E-09	zgc:194125
ENSDARG00000071	1.71682187	0.00035353	si:dkey-19a16.5
ENSDARG00000012	1.70328246	6.82E-11	mmp13a
ENSDARG00000034	1.69169076	7.94E-22	nt5c2l1
ENSDARG00000044	1.68333274	1.58E-23	nr0b2a
ENSDARG00000002	1.68222072	3.02E-06	psme1
ENSDARG00000073	1.67273278	7.07E-13	mamdc2b
ENSDARG00000069	1.66534587	0.00186959	KLF10
ENSDARG00000058	1.64822279	0.00141099	TRIM40
ENSDARG00000071	1.6180329	1.20E-30	TSTD1
ENSDARG00000069	1.60654728	0.00181633	zgc:153151
ENSDARG00000079	1.59828765	3.35E-05	BX511021.4
ENSDARG00000031	1.58626275	3.00E-06	wu:fl09a04
ENSDARG00000089	1.57553132	1.37E-14	si:dkey-3d18.4
ENSDARG00000091	1.5638271	1.26E-20	CR926130.2
ENSDARG00000002	1.56364859	8.77E-11	hspb11
ENSDARG00000003	1.56134146	1.54E-05	sult1st5
ENSDARG00000067	1.55313561	6.05E-30	im:7150988
ENSDARG00000015	1.53494358	0.00350069	SH2D4B (1 of 2)
ENSDARG00000035	1.52867799	5.48E-07	cyr61l1
ENSDARG00000033	1.51624483	1.05E-34	gsto2
ENSDARG00000092	1.51296744	0.00319385	metap2b
ENSDARG00000094	1.48606486	0.00030539	si:ch211-214p16.2
ENSDARG00000030	1.48413123	5.51E-09	foxq1a
ENSDARG00000089	1.48075959	4.91E-16	AL844567.2
ENSDARG00000057	1.47704667	7.47E-08	tmprss13a
ENSDARG00000026	1.47390167	2.41E-05	si:ch211-285c6.3
ENSDARG00000005	1.45496789	2.97E-14	ethe1
ENSDARG00000056	1.41561088	3.39E-11	serpine1
ENSDARG00000040	1.41206525	0.00453705	KLHL38 (2 of 2)
ENSDARG00000020	1.40598443	9.52E-05	jdp2
ENSDARG00000092	1.40073506	0.00030939	si:ch211-114l13.11

ENSDARG00000089	1.3843675	4.46E-55	ugt1b4
ENSDARG00000094	1.37345707	6.23E-15	zgc:109934
ENSDARG00000044	1.36664414	8.88E-25	hpdb
ENSDARG00000090	1.35486753	0.00145475	SEMA7A
ENSDARG00000014	1.35435001	2.34E-40	AOC2
ENSDARG00000079	1.35293465	2.79E-14	zgc:173594
ENSDARG00000078	1.33639854	0.0053363	nkx3-1
ENSDARG00000002	1.32925228	0.00393051	RNF14 (4 of 5)
ENSDARG00000090	1.32858642	1.13E-10	ALPK3 (2 of 2)
ENSDARG00000069	1.32254004	1.73E-08	bbc3
ENSDARG00000075	1.32236546	8.52E-12	CYLC2
ENSDARG00000022	1.31969085	1.49E-08	aasdh
ENSDARG00000057	1.30475964	0.00360831	zgc:194252
ENSDARG00000079	1.30064074	2.56E-07	ftr39p
ENSDARG00000095	1.29818366	0.00394507	wu:fb37b09
ENSDARG00000077	1.29540601	9.75E-06	si:dkey-265k11.2
ENSDARG00000043	1.29061633	5.00E-21	MAL (2 of 3)
ENSDARG00000063	1.28973162	7.13E-08	arl14
ENSDARG00000094	1.28732706	8.21E-05	si:dkey-240n22.2
ENSDARG00000002	1.27479574	3.29E-17	si:ch211-225b11.1
ENSDARG00000055	1.2745362	7.27E-07	foxq1b
ENSDARG00000093	1.27043927	0.00196156	acy3.1
ENSDARG00000088	1.26140601	0.00164057	MUC4
ENSDARG00000033	1.26129397	2.90E-09	psme2
ENSDARG00000078	1.25623616	0.00167335	CR774195.2
ENSDARG00000060	1.25619833	0.0005804	SLC5A7 (2 of 2)
ENSDARG00000025	1.25556296	1.07E-08	abhd4
ENSDARG00000070	1.25050515	1.16E-11	txnipb
ENSDARG00000086	1.24975336	2.15E-05	CABZ01078634.1
ENSDARG00000014	1.23544061	0.00018919	dkk1a
ENSDARG00000053	1.23469757	9.98E-09	b2m
ENSDARG00000094	1.23095953	2.70E-07	si:ch211-229n2.7
ENSDARG00000073	1.22762329	1.87E-12	cdbl
ENSDARG00000006	1.22739041	1.24E-20	ugt1ab
ENSDARG00000069	1.22387315	0.00024149	atg12
ENSDARG00000039	1.22066939	0.00531045	atoh1c
ENSDARG00000007	1.21320614	7.97E-11	atf3
ENSDARG00000067	1.2090686	8.38E-20	myoz3a
ENSDARG00000055	1.20425364	2.00E-46	cyb5a
ENSDARG00000028	1.20232882	5.36E-24	htatip2
ENSDARG00000077	1.20229592	1.36E-06	-

ENSDARG00000061	1.19361893	1.35E-11	arpp21
ENSDARG00000018	1.18482981	7.56E-12	CU302436.1
ENSDARG00000078	1.15791128	4.93E-11	hs pb9
ENSDARG00000074	1.15762838	1.34E-05	ctsb.1
ENSDARG00000073	1.15424006	0.00087724	KCNK4
ENSDARG00000094	1.14646316	4.77E-14	si:dkeyp-1h4.9
ENSDARG00000092	1.1427679	1.03E-05	C18H15orf48
ENSDARG00000071	1.13852457	7.11E-10	ppp1r3ca
ENSDARG00000022	1.1284982	4.97E-11	MGST1 (1 of 2)
ENSDARG00000026	1.12104537	4.57E-05	slc48a1a
ENSDARG00000019	1.11977724	1.29E-07	acp5a
ENSDARG00000087	1.11829881	0.00029013	OLFM4 (2 of 2)
ENSDARG00000094	1.11828485	0.00097652	cplx4c
ENSDARG00000040	1.1164257	0.00425677	si:dkey-27n14.1
ENSDARG00000095	1.11632483	0.00028644	si:ch211-268b13.5
ENSDARG00000026	1.11623466	3.50E-05	MMEL1
ENSDARG00000076	1.10960368	0.00396034	si:dkey-266m15.5
ENSDARG00000087	1.10390533	2.46E-11	RAMP2 (1 of 2)
ENSDARG00000014	1.09963809	3.98E-13	igfbp1a
ENSDARG00000059	1.0958767	0.00024146	PAPPA (2 of 2)
ENSDARG00000058	1.08746022	1.35E-14	hgd
ENSDARG00000038	1.08600903	6.71E-05	cbx7a
ENSDARG00000075	1.08139005	0.00139093	mhc1uba
ENSDARG00000056	1.07648464	0.00213589	figf
ENSDARG00000070	1.07396582	0.00134647	GGACT (2 of 3)
ENSDARG00000039	1.06978268	8.35E-09	DUSP8 (2 of 2)
ENSDARG00000044	1.06539699	0.00028774	ccpg1
ENSDARG00000086	1.05697966	0.00156177	PRODH (3 of 3)
ENSDARG00000091	1.05576252	2.27E-27	pkhd11
ENSDARG00000032	1.05066528	2.35E-14	zgc:91887
ENSDARG00000089	1.04503891	0.00023815	UHRF2 (2 of 3)
ENSDARG00000063	1.03680656	2.54E-11	abcb6
ENSDARG00000023	1.03228796	5.02E-19	CREM
ENSDARG00000070	1.03167114	8.54E-15	cyp2aa9
ENSDARG00000031	1.02866252	5.03E-33	zgc:92066
ENSDARG00000087	1.02398163	4.00E-05	CABZ01087111.1
ENSDARG00000093	1.01936399	1.41E-38	zgc:193505
ENSDARG00000060	1.01845818	0.00479616	pip5kl1
ENSDARG00000076	1.01801299	1.81E-07	TCIRG1 (1 of 3)
ENSDARG00000089	1.01762654	3.54E-06	si:ch211-161h7.8
ENSDARG00000075	1.0106415	2.44E-05	ankrd1a

ENSDARG00000019	1.00344166	3.07E-08	pnp5b
ENSDARG00000092	1.00238665	5.38E-09	si:dkeyp-51b9.3
ENSDARG00000089	1.00163587	1.22E-05	ANPEP (5 of 5)
ENSDARG00000071	0.99374465	0.00163749	zgc:153154
ENSDARG00000061	0.9937318	3.29E-34	slc43a2b
ENSDARG00000070	0.98712663	3.72E-06	il6r
ENSDARG00000039	0.98541478	5.39E-09	fah
ENSDARG00000093	0.9838699	5.41E-17	si:ch211-217k17.9
ENSDARG00000010	0.98270287	0.00054997	ptgs2b
ENSDARG00000092	0.98241332	3.37E-05	si:dkey-147f3.5
ENSDARG00000086	0.97922146	0.00037367	si:ch211-236p5.2
ENSDARG00000087	0.97554502	6.99E-21	si:ch211-157c3.4
ENSDARG00000091	0.96916579	0.00470828	ucp3
ENSDARG00000088	0.95755288	0.00144579	MDP1
ENSDARG00000079	0.95653557	0.00396799	CR790363.1
ENSDARG00000083	0.95389295	0.00505391	SNORA57
ENSDARG00000055	0.95358792	3.15E-10	ypel3
ENSDARG00000026	0.95084085	1.66E-08	socs3b
ENSDARG00000019	0.94694541	1.17E-11	VPS9D1
ENSDARG00000018	0.94259889	1.53E-06	gpx1a
ENSDARG00000079	0.94158048	0.00484685	zgc:194659
ENSDARG00000062	0.93444916	0.00021632	pdpk1a
ENSDARG00000076	0.93278949	0.00258781	ATP10B
ENSDARG00000076	0.93098107	3.99E-08	zgc:198419
ENSDARG00000093	0.92925127	0.00150128	si:ch211-158d24.4
ENSDARG00000077	0.92019456	0.00137995	HYAL2 (1 of 3)
ENSDARG00000060	0.91993322	3.60E-13	si:dkey-193b15.6
ENSDARG00000037	0.9191912	2.82E-06	gpr137
ENSDARG00000093	0.91313341	1.89E-08	B3GNT3 (2 of 4)
ENSDARG00000035	0.91269763	0.00392558	zgc:110697
ENSDARG00000093	0.91267156	0.00099641	zgc:77486
ENSDARG00000090	0.90769611	0.0024632	CAPN2 (1 of 4)
ENSDARG00000016	0.90611228	1.54E-15	keap1a
ENSDARG00000055	0.90179227	3.10E-13	casp3b
ENSDARG00000074	0.9010615	1.59E-23	keap1b
ENSDARG00000057	0.89970536	1.98E-06	cxcr4a
ENSDARG00000040	0.89563172	0.00538389	IRF2 (2 of 2)
ENSDARG00000017	0.89485735	1.90E-15	sqrdl
ENSDARG00000092	0.89446079	0.00042655	si:dkey-56e3.2
ENSDARG00000081	0.89227706	0.00068201	5_8S_rRNA
ENSDARG00000095	0.89125649	0.00246753	si:dkey-52k20.13

ENSDARG00000074	0.89023652	0.00020534	si:ch211-214b16.4
ENSDARG00000076	0.88951945	7.03E-05	cdkn1a
ENSDARG00000091	0.88722677	5.32E-14	serpinb1l4
ENSDARG00000028	0.88386249	5.69E-17	maff
ENSDARG00000061	0.88188171	4.28E-15	tiparp
ENSDARG00000094	0.88143879	2.40E-15	si:ch211-160e1.5
ENSDARG00000033	0.87963725	2.60E-16	zgc:158387
ENSDARG00000035	0.87114074	0.00065807	CU469544.2
ENSDARG00000077	0.86885688	0.00277177	si:dkey-169i5.4
ENSDARG00000077	0.86650481	1.77E-12	AIFM2
ENSDARG00000078	0.86561103	0.00056068	TRAF2 (1 of 2)
ENSDARG00000091	0.86475153	1.03E-05	HMGA2 (2 of 2)
ENSDARG00000055	0.86062915	4.57E-06	zgc:163121
ENSDARG00000070	0.86043668	9.39E-05	cacna1i
ENSDARG00000076	0.85864817	0.00067654	zgc:163143
ENSDARG00000089	0.85829411	3.02E-08	-
ENSDARG00000025	0.85787548	0.00012799	agmo
ENSDARG00000052	0.85764359	0.00185938	btr02
ENSDARG00000013	0.85714507	0.00225968	rdh8b
ENSDARG00000093	0.85414704	0.00476687	si:ch211-209l18.2
ENSDARG00000071	0.85215963	2.27E-06	RELL2
ENSDARG00000068	0.850541	2.45E-07	zgc:153031
ENSDARG00000042	0.84842989	3.71E-16	blvrB
ENSDARG00000058	0.84754675	8.90E-08	casp8
ENSDARG00000006	0.84466804	7.50E-08	msxd
ENSDARG00000076	0.83952088	3.08E-06	KEL
ENSDARG00000025	0.83797961	0.00388557	socs3a
ENSDARG00000019	0.83770302	0.00214587	zgc:110712
ENSDARG00000070	0.83239753	0.00560027	si:dkey-10p5.7
ENSDARG00000030	0.82698835	4.35E-07	xirp1
ENSDARG00000078	0.8251187	1.49E-05	crebrf
ENSDARG00000036	0.81964809	0.0043322	edn1
ENSDARG00000093	0.81903672	0.00198153	PAMR1
ENSDARG00000074	0.81760209	0.00188052	PIDD
ENSDARG00000094	0.81722222	2.45E-08	si:ch73-196i15.3
ENSDARG00000096	0.81442366	0.00045573	si:ch1073-443f11.2
ENSDARG00000060	0.81350241	6.84E-11	znf395a
ENSDARG00000094	0.81306508	1.06E-09	nupr1
ENSDARG00000091	0.81091955	1.11E-14	si:ch211-117m20.5
ENSDARG00000030	0.81088662	3.93E-07	cited2
ENSDARG00000083	0.81009552	0.00214615	dre-mir-22a

ENSDARG00000070	0.80483499	0.00362476	ctgfb
ENSDARG00000057	0.8027694	3.57E-08	dbpb
ENSDARG00000095	0.80046865	3.33E-08	si:ch211-217k17.8
ENSDARG00000079	0.79603526	0.00026321	VSTM5
ENSDARG00000095	0.7958911	0.00499133	si:ch211-130m23.2
ENSDARG00000089	0.79524443	2.67E-23	MLIP
ENSDARG00000038	0.79390186	0.00014478	EGLN1 (2 of 2)
ENSDARG00000058	0.79193138	1.88E-06	SERPING1
ENSDARG00000026	0.79056461	8.10E-12	tspo
ENSDARG00000036	0.7903108	1.42E-12	cacng6a
ENSDARG00000059	0.78947669	1.63E-09	SDR42E2
ENSDARG00000012	0.78901568	0.00380093	dlg3
ENSDARG00000053	0.78439926	0.00012952	pcmttd2
ENSDARG00000028	0.78369912	4.71E-20	glrx
ENSDARG00000024	0.78296848	8.87E-06	si:ch211-129c21.1
ENSDARG00000074	0.782784	0.00042498	sh3yl1
ENSDARG00000076	0.78068483	4.29E-16	DUSP27
ENSDARG00000009	0.77911855	1.36E-06	npl
ENSDARG00000057	0.77837595	2.09E-05	zgc:174164
ENSDARG00000068	0.77762103	2.11E-08	urah
ENSDARG00000090	0.77584263	0.00021081	RPS27L
ENSDARG00000042	0.77497339	0.00077239	EXO5
ENSDARG00000040	0.7732797	3.36E-11	qdptra
ENSDARG00000040	0.76976468	2.20E-09	nenf
ENSDARG00000038	0.76882144	7.72E-09	hbbe3
ENSDARG00000077	0.7680525	1.75E-06	NCOA7 (2 of 2)
ENSDARG00000029	0.76718909	0.00382273	ANO7
ENSDARG00000075	0.76555695	0.00239156	ADAMTS17
ENSDARG00000061	0.7646804	0.00042477	spg20b
ENSDARG00000002	0.76416078	2.98E-05	bach1
ENSDARG00000028	0.76371419	0.00232732	sult2st3
ENSDARG00000091	0.76278637	0.00043136	CSNK2A1
ENSDARG00000034	0.76213959	3.66E-20	scel
ENSDARG00000067	0.76125973	8.52E-08	pmt
ENSDARG00000061	0.76093948	5.99E-07	BICC1 (2 of 2)
ENSDARG00000076	0.76022919	0.00125219	SLC31A2
ENSDARG00000032	0.76018695	0.00190403	crfb8
ENSDARG00000092	0.76014537	3.49E-05	si:ch211-150o23.2
ENSDARG00000038	0.75848967	0.00017577	zgc:113363
ENSDARG00000077	0.75763912	0.00187802	ppp1r3da
ENSDARG00000054	0.75753081	3.36E-09	TMEM30B

ENSDARG00000042	0.75504942	0.00016304	zgc:113442
ENSDARG00000069	0.75483982	1.98E-12	si:ch211-239f4.7
ENSDARG00000021	0.75432933	1.33E-21	abcb5
ENSDARG00000070	0.75416145	0.00155325	sesn2
ENSDARG00000035	0.75412362	1.04E-08	rgcc
ENSDARG00000028	0.75034846	1.44E-07	CLDN23 (1 of 2)
ENSDARG00000076	0.74782148	1.55E-07	pappa2
ENSDARG00000042	0.74298436	1.18E-05	scarb1
ENSDARG00000008	0.74252197	0.00042084	apeh
ENSDARG00000011	0.74250229	7.63E-10	mknk2a
ENSDARG00000025	0.74133804	0.00323137	fstl3
ENSDARG00000044	0.74043099	0.00253574	BX950188.1
ENSDARG00000091	0.7385869	1.93E-06	MYO18B
ENSDARG00000093	0.73642106	0.0018928	tgm2l
ENSDARG00000007	0.73497549	1.44E-05	apol1
ENSDARG00000053	0.73311532	5.55E-05	pyya
ENSDARG00000089	0.73243903	0.00042466	PDE2A (3 of 3)
ENSDARG00000076	0.73197085	0.00453386	si:dkey-208k22.3
ENSDARG00000079	0.73175965	1.50E-06	FILIP1 (1 of 2)
ENSDARG00000044	0.73125283	1.43E-11	clica
ENSDARG00000079	0.72550256	0.00120103	si:dkey-205h13.1
ENSDARG00000078	0.72389511	0.00020513	CCRN4L (1 of 2)
ENSDARG00000008	0.72364297	0.00035	si:dkey-103i16.2
ENSDARG00000007	0.72358683	0.00185201	LRRK1 (2 of 2)
ENSDARG00000067	0.72307927	0.00011681	par1
ENSDARG00000039	0.72154569	0.00245686	tspan15
ENSDARG00000076	0.72078733	0.0001041	ANGPT4
ENSDARG00000067	0.72028577	0.00193631	zgc:154075
ENSDARG00000094	0.71747025	0.0011827	si:dkey-267l16.1
ENSDARG00000053	0.71740819	3.35E-07	si:ch73-211l2.1
ENSDARG00000043	0.71657935	0.00525986	zgc:65997
ENSDARG00000037	0.71647792	1.45E-10	zgc:112484
ENSDARG00000004	0.71554409	0.00044359	casp9
ENSDARG00000010	0.71090629	0.00012779	BX957278.1
ENSDARG00000063	0.70945293	2.44E-05	CREG1
ENSDARG00000038	0.70877218	2.96E-05	gbp1
ENSDARG00000088	0.70775875	4.23E-08	wu:fc34e06
ENSDARG00000039	0.70713871	0.0005588	si:dkey-51a16.9
ENSDARG00000092	0.70442164	1.92E-05	MLL3 (1 of 3)
ENSDARG00000042	0.70121895	1.20E-11	phlda2
ENSDARG00000019	0.70013429	1.25E-09	twist3

ENSDARG00000078	0.6969507	0.00562322	METTL21C (1 of 2)
ENSDARG00000053	0.69685648	0.00267021	C12H7orf62
ENSDARG00000074	0.69654773	0.00419995	unc5a
ENSDARG00000004	0.6942505	2.02E-05	tfe3a
ENSDARG00000068	0.6936929	2.00E-07	si:ch211-264e16.1
ENSDARG00000009	0.692963	4.73E-09	SLC38A5 (2 of 2)
ENSDARG00000071	0.6906576	1.27E-10	g6pd
ENSDARG00000045	0.68765102	0.00330007	rdh12l
ENSDARG00000030	0.68663437	0.00309504	zgc:66484
ENSDARG00000070	0.68590735	0.00017222	im:7160594
ENSDARG00000079	0.68577694	3.69E-08	CR848759.2
ENSDARG00000037	0.68401156	0.00161132	haus7
ENSDARG00000090	0.68262652	0.0008465	CABZ01044814.2
ENSDARG00000041	0.681775	0.00014248	smtnl1
ENSDARG00000095	0.68171213	0.00121484	si:dkey-253d23.3
ENSDARG00000093	0.67966024	0.00255713	sertad2a
ENSDARG00000024	0.67847923	0.00307827	slc11a2
ENSDARG00000089	0.67662649	0.00018171	CABZ01035189.1
ENSDARG00000073	0.67307965	0.00438371	zgc:171673
ENSDARG00000068	0.67296942	8.63E-05	pargl
ENSDARG00000028	0.67198118	0.00155592	zgc:162945
ENSDARG00000003	0.67065453	6.05E-06	CU929089.1
ENSDARG00000093	0.6690748	0.00500526	si:ch211-215d8.2
ENSDARG00000021	0.66742626	8.82E-19	alas1
ENSDARG00000040	0.66726304	1.60E-06	pttg1ipb
ENSDARG00000013	0.66567647	1.30E-18	psap
ENSDARG00000091	0.66478768	0.00130123	CABZ01045617.2
ENSDARG00000057	0.66454195	3.27E-05	nbeal2
ENSDARG00000044	0.65958736	0.00062997	tmem86a
ENSDARG00000070	0.65786852	1.42E-05	hoxc13a
ENSDARG00000021	0.65627959	1.78E-23	ahr2
ENSDARG00000063	0.65548312	0.00092531	TRPM4 (3 of 3)
ENSDARG00000052	0.65461929	5.04E-11	fsta
ENSDARG00000011	0.65326531	7.19E-14	esrp1
ENSDARG00000013	0.65193234	5.22E-15	slc2a3
ENSDARG00000078	0.65030656	8.43E-08	CDH26
ENSDARG00000008	0.64749587	1.18E-05	renbp
ENSDARG00000076	0.64653311	0.00457199	SLC2A13
ENSDARG00000074	0.6463069	6.49E-10	slc6a11
ENSDARG00000014	0.64584238	5.95E-10	arhgef25b
ENSDARG00000075	0.6457945	0.00155258	C8H1orf222

ENSDARG00000071	0.64563558	4.98E-10	pvalb9
ENSDARG00000053	0.6449781	9.00E-07	h2afy
ENSDARG00000010	0.64389697	1.30E-07	rnf11a
ENSDARG00000075	0.64229401	0.00060041	CCDC135
ENSDARG00000054	0.6421901	0.00018051	mfsd6b
ENSDARG00000021	0.64190291	1.55E-13	fbp1a
ENSDARG00000043	0.64023114	0.00433422	gadd45aa
ENSDARG00000035	0.63964452	0.00038004	lpcat4
ENSDARG00000020	0.63894888	0.00525958	ptges
ENSDARG00000027	0.63721462	0.00096126	gnsb
ENSDARG00000025	0.63600337	4.65E-11	hagh
ENSDARG00000035	0.63452969	1.34E-09	DIABLO (1 of 2)
ENSDARG00000070	0.63317609	1.58E-12	FBXO2
ENSDARG00000075	0.63310894	0.00571982	C3H16orf89
ENSDARG00000060	0.63242914	7.38E-07	bnip1
ENSDARG00000019	0.63204225	7.06E-05	he1b
ENSDARG00000034	0.63202175	2.32E-08	asah1b
ENSDARG00000059	0.63189884	0.00173936	ntrk2b
ENSDARG00000060	0.63006685	0.00034322	PPP1R27 (1 of 2)
ENSDARG00000070	0.62947777	0.00021754	mlpha
ENSDARG00000022	0.62855095	4.77E-07	itgb1b.2
ENSDARG00000088	0.62840191	0.0002322	junbb
ENSDARG00000029	0.62833872	0.00515046	adcyp1r1a
ENSDARG00000027	0.62799039	2.21E-05	uros
ENSDARG00000077	0.62678922	0.00091206	zgc:174863
ENSDARG00000056	0.62619097	0.00273725	NRSN2
ENSDARG00000089	0.62553843	1.25E-08	zgc:162193
ENSDARG00000045	0.625417	1.69E-05	FAM3D
ENSDARG00000044	0.62516355	2.04E-10	txn
ENSDARG00000020	0.62353891	5.13E-08	NAGA
ENSDARG00000075	0.62324679	4.90E-07	CABZ01072534.1
ENSDARG00000038	0.62249811	0.00176744	gbp2
ENSDARG00000036	0.62213275	1.03E-08	txnipa
ENSDARG00000018	0.62149825	4.99E-05	pth1rb
ENSDARG00000019	0.62149575	0.00562834	AMOTL1
ENSDARG00000018	0.62009011	1.70E-05	gclm
ENSDARG00000035	0.61918219	0.00015934	gcnt4a
ENSDARG00000092	0.61864391	0.00171777	MGRN1 (2 of 3)
ENSDARG00000074	0.61797863	0.00044065	ITPR1 (1 of 2)
ENSDARG00000070	0.61701985	1.99E-12	rgs4
ENSDARG00000056	0.61646094	0.00197524	onecut3

ENSDARG00000031	0.61539677	7.29E-08	pcbd1
ENSDARG00000062	0.61429982	0.00013791	-
ENSDARG00000043	0.61180183	0.00305093	fxc1
ENSDARG00000058	0.61103229	1.36E-08	abcc4
ENSDARG00000074	0.61051274	0.00361806	si:ch211-131e11.19
ENSDARG00000012	0.60929794	0.00233525	CABZ01057488.1
ENSDARG00000038	0.6092919	9.85E-07	acy1
ENSDARG00000058	0.60756013	0.00029804	trim55b
ENSDARG00000090	0.60626812	2.51E-07	wu:fb12e11
ENSDARG00000019	0.60618323	4.23E-12	evpla
ENSDARG00000044	0.60540706	0.00031063	hars2
ENSDARG00000015	0.60378252	8.04E-14	pgd
ENSDARG00000077	0.60359172	0.00342858	dnah11
ENSDARG00000087	0.60328115	0.00122678	BAD (2 of 2)
ENSDARG00000079	0.60314686	0.00154453	si:ch211-149l1.2
ENSDARG00000073	0.60251736	0.00093413	-
ENSDARG00000013	0.60227776	2.36E-09	gclc
ENSDARG00000016	0.60146485	0.0015754	CCDC90A
ENSDARG00000074	0.60096567	4.51E-10	abca1a
ENSDARG00000055	0.60050839	0.00012218	slc7a7
ENSDARG00000038	0.59877926	1.92E-06	alas2
ENSDARG00000074	0.59874075	0.00115856	mertk
ENSDARG00000088	0.59847408	1.47E-10	si:dkeyp-69b9.3
ENSDARG00000009	0.59771294	0.00037121	uevld
ENSDARG00000036	0.59696896	1.03E-05	zgc:64115
ENSDARG00000070	0.59537374	0.00345285	zgc:175247
ENSDARG00000051	0.59523901	5.06E-07	isca1
ENSDARG00000043	0.59366097	0.00104464	egfl7
ENSDARG00000035	0.59245876	3.56E-12	histh1l
ENSDARG00000071	0.58910451	6.16E-06	zgc:171566
ENSDARG00000031	0.58891427	0.00016722	dhrs13b
ENSDARG00000052	0.58818456	0.00367612	top3a
ENSDARG00000091	0.58688166	6.72E-06	si:dkey-12h9.16
ENSDARG00000002	0.58667011	0.00060156	fam100aa
ENSDARG00000068	0.58551108	0.00262834	-
ENSDARG00000077	0.58232173	1.14E-05	cln6a
ENSDARG00000090	0.58188253	7.69E-06	ildr1a
ENSDARG00000005	0.58151413	1.89E-05	tbc1d17
ENSDARG00000061	0.58123063	3.77E-05	epb41l4b
ENSDARG00000076	0.57835464	0.0027327	CABZ01062994.1
ENSDARG00000076	0.57818142	0.00248523	tm2d3

ENSDARG00000087	0.57727948	5.43E-05	RBBP8NL
ENSDARG00000017	0.57672988	0.00037908	pik3cg
ENSDARG00000041	0.57641069	5.67E-07	styk1
ENSDARG00000056	0.57630058	2.06E-05	cpvl
ENSDARG00000075	0.57559655	7.27E-08	hbegfa
ENSDARG00000018	0.57519628	0.00025515	cyb5r1
ENSDARG00000086	0.57470513	0.0001195	tmem176l.1
ENSDARG00000033	0.57462964	1.18E-10	map1lc3a
ENSDARG00000013	0.57389029	1.10E-06	pck1
ENSDARG00000037	0.57358765	0.00037845	IRS2
ENSDARG00000038	0.57192109	0.00238345	her2
ENSDARG00000069	0.57104234	4.59E-08	PPP1R15A
ENSDARG00000044	0.57087871	7.56E-05	CR385063.1
ENSDARG00000023	0.57054347	0.00087979	C21H5orf4
ENSDARG00000052	0.56918565	0.00121704	ptgs1
ENSDARG00000062	0.5687911	7.58E-06	flcn
ENSDARG00000007	0.5681131	3.56E-06	slc30a4
ENSDARG00000006	0.56759723	0.00151117	zgc:111983
ENSDARG00000045	0.56647694	0.00057989	gpr137c
ENSDARG00000071	0.56560902	0.00572424	FBLIM1
ENSDARG00000009	0.56423712	0.00437504	sele
ENSDARG00000057	0.55981189	0.00073594	fstb
ENSDARG00000025	0.5596472	0.00056376	zgc:64085
ENSDARG00000006	0.55930882	0.00121237	cacna1ab
ENSDARG00000012	0.55813864	1.26E-05	SMARCA1
ENSDARG00000063	0.55514141	0.00376983	shank3a
ENSDARG00000079	0.55501761	1.90E-09	hivep1
ENSDARG00000087	0.55424119	3.38E-10	CT573389.2
ENSDARG00000074	0.55369202	2.56E-05	il12rb2l
ENSDARG00000012	0.55348641	6.07E-13	capn9
ENSDARG00000088	0.55322575	2.13E-05	CT956064.3
ENSDARG00000010	0.55060878	5.26E-06	insig1
ENSDARG00000074	0.55011139	0.00056781	RASIP1
ENSDARG00000090	0.54856919	0.00533753	CABZ01053592.1
ENSDARG00000025	0.54789542	0.00030813	comtb
ENSDARG00000022	0.54746843	7.63E-06	ccdc28a
ENSDARG00000057	0.54545467	3.67E-06	EHBP1L1 (2 of 2)
ENSDARG00000029	0.54497316	1.05E-05	pelis2
ENSDARG00000045	0.54479418	4.20E-08	ciapin1
ENSDARG00000059	0.54458161	6.42E-05	foxj1a
ENSDARG00000060	0.54337974	2.45E-06	MUM1

ENSDARG00000035	0.54092441	2.11E-11	fuca1
ENSDARG00000043	0.54078161	6.79E-06	ANXA1 (4 of 4)
ENSDARG00000033	0.54063264	6.65E-10	mdm2
ENSDARG00000053	0.53909967	0.00083718	adrb3a
ENSDARG00000090	0.53870052	0.00301496	si:dkey-246i14.3
ENSDARG00000062	0.53847457	0.00363638	LENG9
ENSDARG00000071	0.53761048	0.00015082	mgst2
ENSDARG00000059	0.53641925	0.00148739	hoxd11a
ENSDARG00000040	0.5348313	0.00044254	zgc:110333
ENSDARG00000091	0.53451347	0.00044738	fgfbp1
ENSDARG00000052	0.53406866	0.00338762	zgc:113162
ENSDARG00000075	0.53395466	2.78E-06	SGSM1 (1 of 2)
ENSDARG00000069	0.53239934	3.23E-06	PARP4
ENSDARG00000021	0.53199191	3.32E-05	amdhd2
ENSDARG00000075	0.53102986	0.00317297	THSD1
ENSDARG00000045	0.53009291	0.0028741	irf7
ENSDARG00000086	0.52901603	5.42E-06	si:ch211-232i5.3
ENSDARG00000045	0.52886922	1.15E-06	sidt2
ENSDARG00000036	0.52853256	7.94E-10	ctdsp2
ENSDARG00000007	0.52805253	1.42E-05	meox1
ENSDARG00000008	0.5279492	5.33E-07	si:dkey-42i9.4
ENSDARG00000006	0.52702224	4.51E-11	tkf
ENSDARG00000008	0.52588304	0.00065881	KLHL24 (1 of 2)
ENSDARG00000018	0.52465598	0.00092086	EPS8
ENSDARG00000001	0.52447777	2.48E-07	kbtbd12
ENSDARG00000076	0.52440355	0.00331971	epdl1
ENSDARG00000022	0.52415278	0.00178131	ing5a
ENSDARG00000041	0.52373577	4.45E-10	chmp5b
ENSDARG00000006	0.52372129	9.49E-07	lrrk2
ENSDARG00000053	0.52361489	2.06E-05	cox7c
ENSDARG00000008	0.52087453	8.26E-07	dbnla
ENSDARG00000042	0.52074722	2.64E-07	cebpb
ENSDARG00000063	0.52004813	0.00022835	-
ENSDARG00000077	0.51992436	5.01E-07	CABZ01069216.1
ENSDARG00000035	0.51814191	0.0022774	adam28
ENSDARG00000031	0.51747027	0.00052476	stat2
ENSDARG00000068	0.51565242	0.00206271	gbgt1l4
ENSDARG00000022	0.51411385	1.06E-05	stat3
ENSDARG00000094	0.5132924	0.00014776	zzef1
ENSDARG00000088	0.51323239	1.25E-07	fam217b
ENSDARG00000058	0.51307525	0.00256464	tmbim1

ENSDARG00000053	0.51262494	5.03E-07	pcmttd1
ENSDARG00000035	0.51208511	0.00085876	sirt3
ENSDARG00000029	0.51205457	6.95E-07	xpnpep1
ENSDARG00000055	0.51181447	1.48E-05	ptpn3
ENSDARG00000041	0.51158805	1.29E-06	EIF4EBP3l
ENSDARG00000007	0.51075788	0.00143327	chmp4c
ENSDARG00000040	0.50955614	9.96E-08	klf2b
ENSDARG00000078	0.50798174	4.06E-06	CR407583.2
ENSDARG00000052	0.50793099	0.00081465	aspg
ENSDARG00000041	0.50715506	0.00099278	RERG
ENSDARG00000029	0.50553506	0.00529885	thrap6
ENSDARG00000031	0.50505486	2.43E-13	aim1a
ENSDARG00000036	0.50437166	7.08E-06	rnaset2
ENSDARG00000037	0.50415209	0.00271362	MARVELD3
ENSDARG00000037	0.5031186	0.00159242	cln3
ENSDARG00000041	0.50259944	0.00015652	bhlhe41
ENSDARG00000037	0.50256934	0.00129728	nek6
ENSDARG00000028	0.50215857	5.95E-08	bnip3lb
ENSDARG00000004	0.50203943	7.50E-05	lonp2
ENSDARG00000075	0.50142431	1.58E-08	soga3b
ENSDARG00000045	0.49874394	6.00E-05	pawrl
ENSDARG00000051	0.49864135	1.13E-05	btr12
ENSDARG00000019	0.49736499	0.00047402	slain1a
ENSDARG00000071	0.49694064	0.00012485	CABZ01047562.1
ENSDARG00000018	0.49666098	0.00034361	KDM4A (2 of 2)
ENSDARG00000068	0.49405879	0.00511941	spata2l
ENSDARG00000059	0.49332414	0.00046007	nr1d4b
ENSDARG00000053	0.49324506	7.25E-05	ly75
ENSDARG00000092	0.49208178	0.00075569	gas5
ENSDARG00000004	0.49130599	3.89E-06	zgc:100868
ENSDARG00000004	0.49069978	3.13E-05	bhlhe40
ENSDARG00000023	0.49053788	0.00076646	slc25a43
ENSDARG00000094	0.49049391	7.04E-05	mical3b
ENSDARG00000059	0.4900253	1.18E-06	plcd1a
ENSDARG00000051	0.48986286	0.00105044	cecr1a
ENSDARG00000055	0.4893817	2.51E-07	CD68
ENSDARG00000002	0.48841677	0.00072129	miox
ENSDARG00000036	0.48835827	0.00102393	hsd3b7
ENSDARG00000058	0.48791673	3.23E-06	si:dkey-222f8.3
ENSDARG00000028	0.48783011	4.32E-07	fut9d
ENSDARG00000057	0.4873635	1.43E-11	ctsd

ENSDARG00000036	0.4867769	0.00027158	atp11c
ENSDARG00000042	0.48417282	0.00113402	mau2
ENSDARG00000051	0.48120897	0.00239121	si:dkeyp-19e1.3
ENSDARG00000063	0.479287	0.00553776	osbpl6
ENSDARG00000068	0.47869711	1.57E-06	ATF5 (1 of 2)
ENSDARG00000004	0.47861917	0.00034095	ptgs2a
ENSDARG00000091	0.47680533	0.00022151	TIFA
ENSDARG00000052	0.47677488	3.66E-07	OSGIN1
ENSDARG00000077	0.4767563	1.22E-05	TANC1 (2 of 2)
ENSDARG00000069	0.476127	0.00269398	rnaseka
ENSDARG00000043	0.47589942	2.32E-05	ctsz
ENSDARG00000028	0.47534877	0.00416644	AAMDC
ENSDARG00000069	0.47477569	0.00485307	zgc:162608
ENSDARG00000079	0.4747042	0.00019697	wu:fy63c09
ENSDARG00000040	0.4743271	0.00077983	-
ENSDARG00000004	0.47404742	7.40E-08	atl3
ENSDARG00000003	0.47332215	8.24E-05	parp3
ENSDARG00000045	0.47280125	0.00489083	tmem106a
ENSDARG00000040	0.472783	2.51E-05	PSPH
ENSDARG00000004	0.4724353	0.00028761	tie1
ENSDARG00000016	0.4716687	1.65E-05	arl6ip5b
ENSDARG00000039	0.47067447	3.04E-07	TSTA3 (3 of 3)
ENSDARG00000094	0.4704514	0.00040194	CR936975.5
ENSDARG00000015	0.47027823	1.30E-06	mknk2b
ENSDARG00000034	0.46962788	0.00028175	bcmo1
ENSDARG00000013	0.46924136	0.00504359	plekhb2
ENSDARG00000009	0.46918719	0.00329505	rnf114
ENSDARG00000076	0.46898106	0.00290682	usp53b
ENSDARG00000086	0.46872072	7.49E-05	BAHD1 (1 of 2)
ENSDARG00000076	0.46756949	2.21E-07	fam100b
ENSDARG00000013	0.46748081	9.48E-06	zgc:92113
ENSDARG00000018	0.46690178	0.00010257	efna1b
ENSDARG00000029	0.46647788	0.00061629	stx11b.1
ENSDARG00000076	0.46499609	0.00364755	PPM1K (2 of 2)
ENSDARG00000051	0.46488034	1.10E-09	pkp3
ENSDARG00000075	0.4646577	0.00422894	ASPHD1
ENSDARG00000021	0.46448891	3.29E-06	mvp
ENSDARG00000016	0.464395	2.82E-06	rnf128a
ENSDARG00000017	0.46378367	0.00073064	SLC44A2 (2 of 2)
ENSDARG00000001	0.46359157	0.00106018	pfkfb3
ENSDARG00000019	0.46270078	0.00152917	tbcelb

ENSDARG00000032	0.46265828	5.02E-05	tmem8a
ENSDARG00000060	0.46248092	4.73E-06	H6PD
ENSDARG00000000	0.46069742	0.00020954	slc1a4
ENSDARG00000045	0.45928703	0.00015521	myeov2
ENSDARG00000043	0.45735738	0.00300368	B3GNT3 (4 of 4)
ENSDARG00000011	0.45581594	0.00249029	prtfdc1
ENSDARG00000069	0.45552231	0.00484347	kbtbd4
ENSDARG00000041	0.45522934	0.00175269	cetn4
ENSDARG00000045	0.45479464	2.24E-05	myca
ENSDARG00000078	0.45423673	4.51E-05	si:ch211-232i5.1
ENSDARG00000074	0.45331091	0.0015956	tmem237b
ENSDARG00000042	0.45284246	6.25E-08	ctgfa
ENSDARG00000091	0.45266874	1.10E-06	CABZ01088039.1
ENSDARG00000009	0.45235005	2.11E-07	NRAP
ENSDARG00000019	0.4512741	0.00325903	rhous
ENSDARG00000043	0.4511141	0.00538763	SREK1IP1
ENSDARG00000095	0.45091887	0.00016464	si:dkey-87o1.2
ENSDARG00000043	0.44969735	0.00349275	PQLC2
ENSDARG00000059	0.44921972	0.00202396	trpm4
ENSDARG00000006	0.44841906	2.65E-05	ak4
ENSDARG00000074	0.44753287	0.00438619	zgc:162183
ENSDARG00000056	0.44667409	0.00182137	afap111b
ENSDARG00000022	0.44584193	0.00250972	bnip4
ENSDARG00000012	0.44522362	0.00396236	pclob
ENSDARG00000015	0.44391717	7.47E-06	cyp3c1
ENSDARG00000004	0.44365753	3.49E-05	reep3
ENSDARG00000031	0.44314702	0.0034638	RTKN (1 of 2)
ENSDARG00000033	0.44272694	0.00521803	FAT3
ENSDARG00000009	0.44208324	4.85E-06	dcaf11
ENSDARG00000019	0.44067017	0.00362891	CDS1
ENSDARG00000087	0.44013344	3.24E-05	ATOX1
ENSDARG00000070	0.44003215	0.00053615	grin2db
ENSDARG00000053	0.43996379	0.00067776	adhfe1
ENSDARG00000057	0.43992785	0.00173916	nme3
ENSDARG00000095	0.43939937	1.88E-06	si:ch73-303g23.4
ENSDARG00000094	0.43934696	1.25E-09	si:dkey-9i23.11
ENSDARG00000057	0.43927352	9.49E-07	tsc1b
ENSDARG00000059	0.4386253	2.79E-05	ddit3
ENSDARG00000057	0.43806539	0.00023831	svopl
ENSDARG00000054	0.43747902	7.88E-06	IRS1
ENSDARG00000039	0.43652831	0.00014177	ap1m3

ENSDARG00000091	0.43652184	0.00089611	BX296557.6
ENSDARG00000073	0.4362678	8.08E-05	si:dkeyp-72g9.4
ENSDARG00000068	0.43573746	2.20E-06	hist2h2l
ENSDARG00000023	0.43455038	8.36E-07	aqp1a.1
ENSDARG00000044	0.43420676	0.00057135	ahi1
ENSDARG00000015	0.43329935	1.07E-06	sesn3
ENSDARG00000058	0.43316503	1.09E-06	hspb8
ENSDARG00000035	0.4327219	0.00181951	mpdu1a
ENSDARG00000054	0.43244299	0.00438109	lgals2a
ENSDARG00000070	0.43211583	0.00022838	ptpn23b
ENSDARG00000059	0.43007617	0.00387279	dub
ENSDARG00000002	0.4295792	4.40E-05	DEDD2
ENSDARG00000014	0.42937913	5.39E-07	dlx3b
ENSDARG00000037	0.42899066	0.00100703	scube2
ENSDARG00000003	0.42894581	0.00014125	asb2a
ENSDARG00000030	0.4288227	1.50E-06	C13H1orf63
ENSDARG00000068	0.42869153	1.99E-05	TENC1 (2 of 2)
ENSDARG00000078	0.42853068	0.00033284	asb2b
ENSDARG00000032	0.42730988	0.00014353	arl4cb
ENSDARG00000037	0.42724739	2.02E-05	FILIP1L (2 of 2)
ENSDARG00000033	0.42721358	6.56E-06	pi4k2a
ENSDARG00000034	0.42713084	0.00233026	AL929434.1
ENSDARG00000023	0.42706077	0.00024646	he1a
ENSDARG00000041	0.4266211	0.00279797	NDUFA3
ENSDARG00000031	0.42622741	6.73E-06	hif1an
ENSDARG00000056	0.42405564	0.00246794	tmem170a
ENSDARG00000022	0.42386152	0.00262875	ddx59
ENSDARG00000016	0.42342549	5.57E-05	heatr7a
ENSDARG00000088	0.42340109	0.00346729	PHGR1
ENSDARG00000002	0.42260856	0.00043552	ATG14
ENSDARG00000056	0.4215383	0.00140771	tmem45b
ENSDARG00000015	0.42122658	0.00036203	flt4
ENSDARG00000017	0.42110945	0.00367997	foxf2a
ENSDARG00000003	0.42042399	0.00019168	atp7a
ENSDARG00000062	0.42029584	0.00236181	rnf115
ENSDARG00000033	0.42021835	1.15E-07	paics
ENSDARG00000077	0.41983884	3.00E-06	nbr1
ENSDARG00000021	0.41957234	0.00148615	nipal3
ENSDARG00000070	0.41904141	0.0002619	lepr
ENSDARG00000007	0.41873561	0.00391363	bloc1s4
ENSDARG00000079	0.41819252	9.95E-05	sepp1b

ENSDARG00000060	0.41787594	1.38E-05	si:dkey-157119.2
ENSDARG00000020	0.41706679	0.00345108	CASKIN1 (2 of 3)
ENSDARG00000028	0.41662923	0.00128438	jkamp
ENSDARG00000077	0.41662338	0.00543124	ATF5 (2 of 2)
ENSDARG00000071	0.41645724	3.80E-05	aox3
ENSDARG00000057	0.41633235	1.56E-07	znf185
ENSDARG00000036	0.41498825	0.00137081	EMP3 (1 of 2)
ENSDARG00000074	0.41461594	0.00105209	ATXN7
ENSDARG00000044	0.41406923	1.03E-05	etv5b
ENSDARG00000073	0.41358485	0.00019903	FEZ2 (2 of 2)
ENSDARG00000088	0.41282337	0.00297821	gm2a
ENSDARG00000055	0.41266921	0.00538099	9-Mar
ENSDARG00000012	0.41240007	0.00094357	MAT2B
ENSDARG00000060	0.40956297	0.00554849	slc12a9
ENSDARG00000006	0.40918377	4.13E-05	stat1a
ENSDARG00000017	0.40891847	0.00080325	gstt1b
ENSDARG00000059	0.40847265	1.89E-06	DENND4C
ENSDARG00000017	0.40709773	0.00016322	ccng2
ENSDARG00000030	0.40597814	9.91E-05	il6st
ENSDARG00000086	0.40574605	0.00111923	relb
ENSDARG00000074	0.40554398	6.07E-08	akt1s1
ENSDARG00000054	0.40537101	2.57E-06	id3
ENSDARG00000021	0.4045261	0.00114177	hmgcl
ENSDARG00000054	0.40438859	2.53E-05	h1fx
ENSDARG00000077	0.40423383	0.00209641	chl1a
ENSDARG00000070	0.40415176	8.24E-06	MYO10 (2 of 2)
ENSDARG00000043	0.40396045	0.00067682	nisch
ENSDARG00000007	0.40321686	0.00096821	si:dkey-145p14.5
ENSDARG00000004	0.40204872	3.31E-06	lmo7a
ENSDARG00000018	0.40168744	0.00322507	RELL1
ENSDARG00000027	0.40167913	4.15E-05	cnppd1
ENSDARG00000057	0.40165843	0.00056113	rnf103
ENSDARG00000029	0.40125554	0.00150244	epb41b
ENSDARG00000089	0.40058754	6.89E-06	TAOK1 (3 of 3)
ENSDARG00000089	0.39960274	0.00380955	-
ENSDARG00000077	0.39911621	0.00030587	RFX7 (1 of 2)
ENSDARG00000056	0.39824013	1.56E-05	rpia
ENSDARG00000075	0.39806002	0.00339068	BAI1 (2 of 3)
ENSDARG00000089	0.39794642	0.00040643	slc25a32a
ENSDARG00000086	0.39775895	0.00308492	-
ENSDARG00000071	0.39732229	0.0003514	ctdspla

ENSDARG00000018	0.39616065	7.98E-05	gatsl2
ENSDARG00000051	0.39501554	0.00018073	ca5
ENSDARG00000044	0.39431812	2.68E-05	fuca2
ENSDARG00000070	0.39320375	0.001648	MRPS21
ENSDARG00000062	0.39309196	0.00064458	ptpn21
ENSDARG00000035	0.39177469	0.00111452	npr3
ENSDARG00000025	0.39140672	0.00303278	wdr24
ENSDARG00000063	0.391206	0.005239	ZNF462
ENSDARG00000079	0.39046709	3.16E-06	DLC1
ENSDARG00000059	0.39045978	4.23E-10	CABZ01080098.1
ENSDARG00000039	0.38997064	3.74E-06	vps13a
ENSDARG00000042	0.38976811	3.44E-05	tpp1
ENSDARG00000008	0.38969416	8.56E-05	mcl1b
ENSDARG00000056	0.3894565	0.00258955	si:ch211-154o6.6
ENSDARG00000039	0.38907644	0.00016904	hivep2
ENSDARG00000017	0.38822946	0.00421072	ctdp1
ENSDARG00000013	0.38725419	0.00027331	lmna
ENSDARG00000067	0.38715662	0.00482123	-
ENSDARG00000075	0.38706726	0.00312928	GIGYF1 (1 of 3)
ENSDARG00000043	0.38683662	9.25E-05	prdx6
ENSDARG00000018	0.38468694	0.00023798	mknk1
ENSDARG00000090	0.38389346	0.00049237	AL929286.1
ENSDARG00000011	0.38332604	0.00394172	si:ch211-93f2.1
ENSDARG00000057	0.38296535	7.34E-05	7-Mar
ENSDARG00000090	0.38259728	0.00407256	CTIF
ENSDARG00000069	0.38256253	0.00225362	zgc:114045
ENSDARG00000069	0.38204742	0.003488	rhbdl2
ENSDARG00000061	0.38109893	0.00071173	USP32
ENSDARG00000069	0.38096222	6.97E-07	plscr3b
ENSDARG00000013	0.38044753	0.00029248	capns1b
ENSDARG00000016	0.37992769	6.60E-05	cd9b
ENSDARG00000016	0.37943317	0.00197962	SBNO2 (2 of 3)
ENSDARG00000055	0.3793963	0.00496258	hmox2a
ENSDARG00000059	0.37773651	0.00323055	C19H1orf85
ENSDARG00000025	0.37771193	0.00036173	ftr83
ENSDARG00000025	0.37769422	0.00041959	TIAM1 (1 of 2)
ENSDARG00000086	0.3767937	0.00058078	CD302
ENSDARG00000015	0.37656962	0.00022143	mfsd8
ENSDARG00000056	0.37582023	0.00156374	serinc2
ENSDARG00000021	0.37446844	0.00087795	zgc:91909
ENSDARG00000033	0.37398817	1.73E-05	prrx1a

ENSDARG00000045	0.37384635	0.00028597	arl4d
ENSDARG00000010	0.37366797	0.0002971	nqo1
ENSDARG00000069	0.37339143	0.00128038	bcl6ab
ENSDARG00000024	0.37273165	0.00094874	vamp8
ENSDARG00000087	0.37264567	0.0026919	MAP4K3 (2 of 2)
ENSDARG00000038	0.37209496	2.00E-07	h1f0
ENSDARG00000076	0.37198416	0.00083441	FP236835.1
ENSDARG00000063	0.37170399	0.00016948	zranb1b
ENSDARG00000057	0.3713684	0.00109432	tbc1d15
ENSDARG00000063	0.37111171	0.00066756	PCLO (1 of 2)
ENSDARG00000022	0.3710863	0.0016035	hig1
ENSDARG00000054	0.36996756	0.00492499	hsd17b14
ENSDARG00000077	0.3698188	0.00446262	si:ch211-87l2.1
ENSDARG00000045	0.36941726	0.00010738	tmem110l
ENSDARG00000019	0.36925772	0.00171681	gadd45g
ENSDARG00000075	0.36873206	9.10E-05	CU464134.1
ENSDARG00000027	0.36836236	0.00017919	ptgdsb
ENSDARG00000041	0.36830325	8.91E-05	rps29
ENSDARG00000032	0.36809594	1.40E-08	net1
ENSDARG00000061	0.36775281	7.46E-05	zbtb4
ENSDARG00000043	0.36774325	0.00257997	tom1
ENSDARG00000011	0.3672774	0.00032416	pptc7
ENSDARG00000076	0.36599849	8.80E-06	dsg2
ENSDARG00000010	0.36596628	0.00012254	ppm1k
ENSDARG00000035	0.36491823	0.00024029	tp53
ENSDARG00000057	0.36364276	0.00026272	golga7
ENSDARG00000011	0.36331596	0.00201099	cpm
ENSDARG00000011	0.36311118	0.00522246	fgfr1b
ENSDARG00000036	0.36310791	7.13E-05	tbc1d5
ENSDARG00000086	0.36310479	0.00169301	-
ENSDARG00000016	0.36295169	0.00013615	C20H2orf18
ENSDARG00000078	0.36264762	0.00251302	crfb5
ENSDARG00000061	0.3621748	0.0047611	atxn1a
ENSDARG00000039	0.36187057	0.00304146	pitpnaa
ENSDARG00000088	0.35940461	8.26E-05	CELSR2 (1 of 2)
ENSDARG00000069	0.35885661	0.00498129	TAOK1 (1 of 3)
ENSDARG00000088	0.35882531	0.00192971	DMXL1 (2 of 2)
ENSDARG00000032	0.3586472	0.0046875	her12
ENSDARG00000045	0.35847699	1.84E-05	lamb1b
ENSDARG00000015	0.35786196	0.00274599	rab22a
ENSDARG00000063	0.35745979	0.00458733	nuak2

ENSDARG00000087	0.35736602	0.00150245	rnf216
ENSDARG00000055	0.35684594	6.87E-05	dopey2
ENSDARG00000040	0.35664279	2.12E-06	tfap2c
ENSDARG00000003	0.35593244	0.00022125	cwc25
ENSDARG00000062	0.35589753	0.00050617	PDE3B
ENSDARG00000024	0.35417635	0.00032274	cry3
ENSDARG00000052	0.35417364	0.0053259	FAM210B
ENSDARG00000036	0.35348237	5.32E-05	rpl39
ENSDARG00000038	0.35337454	9.93E-06	FNBP1 (1 of 3)
ENSDARG00000005	0.35328111	0.00210205	AIM1L
ENSDARG00000009	0.35276223	0.00071405	fgfr1op2
ENSDARG00000092	0.35245842	0.00180976	si:ch211-250g4.3
ENSDARG00000078	0.3521986	2.28E-06	tex2
ENSDARG00000029	0.34914954	0.00106369	cdkn1ba
ENSDARG00000010	0.34878051	0.00302445	rapgef6
ENSDARG00000012	0.34867338	0.00095705	gpia
ENSDARG00000038	0.3484298	0.00308305	ssfa2
ENSDARG00000077	0.34840375	9.62E-05	RPL29
ENSDARG00000021	0.34826128	4.63E-07	pdcd4a
ENSDARG00000038	0.34722232	0.00052251	si:dkey-65j6.2
ENSDARG00000069	0.34681128	0.00060432	unc13c
ENSDARG00000045	0.34632355	0.00200152	zgc:153129
ENSDARG00000076	0.3459519	0.00021245	NFX1
ENSDARG00000039	0.34495808	0.00122063	bag3
ENSDARG00000076	0.34482668	1.14E-05	ccng1
ENSDARG00000056	0.34410947	0.0048183	cep63
ENSDARG00000018	0.34395492	0.00512527	acvrl1
ENSDARG00000056	0.34272867	0.00011458	sort1b
ENSDARG00000037	0.34241631	0.0006035	atoh8
ENSDARG00000034	0.34167772	2.22E-05	hexb
ENSDARG00000003	0.34058255	0.00076782	ubxn6
ENSDARG00000087	0.34045997	0.00261112	CABZ01088509.1
ENSDARG00000087	0.34031623	0.00289347	Metazoa_SRP
ENSDARG00000008	0.34019956	0.00036138	usp28
ENSDARG00000022	0.34006207	0.000105	slc26a5
ENSDARG00000070	0.33996953	0.00034014	six7
ENSDARG00000040	0.33976793	0.00094793	wipi1
ENSDARG00000089	0.33878961	8.46E-05	mbpb
ENSDARG00000020	0.33874332	0.00072511	adck3
ENSDARG00000016	0.33843501	0.00060061	eif4a2
ENSDARG00000062	0.33820461	0.00399596	ARMC8

ENSDARG00000045	0.33793387	0.00551169	chad
ENSDARG00000031	0.33754498	0.00057544	si:ch211-207d6.2
ENSDARG00000035	0.33733694	0.0001073	iscu
ENSDARG00000014	0.33729261	0.00186388	abcc2
ENSDARG00000062	0.33657841	0.00436006	egln2
ENSDARG00000025	0.3365381	0.00049932	CCSAP (2 of 2)
ENSDARG00000012	0.33625379	0.00038067	sdcbp2
ENSDARG00000055	0.3347327	0.0023048	CAPN12
ENSDARG00000041	0.3342568	0.00017362	rps25
ENSDARG00000004	0.33419763	0.00236137	mll
ENSDARG00000042	0.33416821	0.00480296	itpka
ENSDARG00000009	0.33360447	5.69E-05	apg3l
ENSDARG00000075	0.33329906	0.00499558	tbc1d25
ENSDARG00000038	0.33286764	0.0026696	cox6c
ENSDARG00000027	0.33275731	6.65E-05	TCP11L2
ENSDARG00000020	0.3325016	4.23E-06	map1lc3b
ENSDARG00000087	0.33243914	0.0009244	SLITRK6
ENSDARG00000021	0.33155845	0.00360559	apaf1
ENSDARG00000060	0.33131206	0.0017159	fam160b2
ENSDARG00000058	0.33130387	0.00431201	MTMR3 (1 of 2)
ENSDARG00000053	0.33071396	0.00057077	ELMSAN1 (1 of 2)
ENSDARG00000060	0.33062887	0.00054382	atxn1b
ENSDARG00000027	0.3306153	2.46E-05	sdpra
ENSDARG00000057	0.33037993	0.00062758	ANO10
ENSDARG00000071	0.32972747	2.70E-05	cica
ENSDARG00000035	0.32937295	0.00141458	ankra2
ENSDARG00000085	0.32928206	0.00430853	AL935186.3
ENSDARG00000028	0.32815331	2.01E-05	bmp1a
ENSDARG00000027	0.32814327	0.00118871	igf1ra
ENSDARG00000019	0.32807366	0.00010041	tmem59
ENSDARG00000018	0.32664379	0.0045245	cyp2v1
ENSDARG00000040	0.32653877	0.00087034	zgc:92606
ENSDARG00000023	0.32562127	0.00179555	gmppab
ENSDARG00000076	0.32484239	2.13E-05	CDIP1
ENSDARG00000078	0.32463205	0.00039118	NBR1 (1 of 2)
ENSDARG00000015	0.32360058	0.00055238	fth1a
ENSDARG00000070	0.32343714	0.004162	nhsa
ENSDARG00000054	0.32231889	4.32E-05	itsn2b
ENSDARG00000077	0.3219394	0.00187328	SPSB3
ENSDARG00000016	0.32178756	0.00254453	SCAMP3
ENSDARG00000002	0.32169729	0.00057901	tjp3

ENSDARG00000068	0.32112186	0.00062227	CASKIN2 (3 of 3)
ENSDARG00000006	0.32060667	0.00081681	RPL38
ENSDARG00000063	0.32053333	0.00330102	OXR1 (2 of 2)
ENSDARG00000058	0.32015052	2.45E-05	desma
ENSDARG00000089	0.32011296	0.00353677	IL17RD (2 of 2)
ENSDARG00000070	0.31985795	0.00126414	crlf3
ENSDARG00000078	0.31971304	0.0001648	MEAF6
ENSDARG00000005	0.31950382	0.00071121	nav3
ENSDARG00000012	0.3194339	0.00371559	slc4a1a
ENSDARG00000052	0.3194338	0.00208647	ppifb
ENSDARG00000042	0.31934352	0.00105121	adipor1b
ENSDARG00000035	0.31881889	0.00461987	enc1
ENSDARG00000036	0.31795977	0.00202323	calcoco1
ENSDARG00000059	0.3179265	0.00396735	raf1b
ENSDARG00000053	0.31791225	0.00468414	carhsp1
ENSDARG00000028	0.31742001	0.00040552	KRT18 (2 of 3)
ENSDARG00000054	0.31732094	0.00302142	stambpa
ENSDARG00000061	0.31672116	0.00023896	myo5aa
ENSDARG00000004	0.31662497	0.00114154	zmat2
ENSDARG00000027	0.31651071	0.00136884	ephb4b
ENSDARG00000002	0.31630459	0.00139145	tbx3
ENSDARG00000013	0.31521289	0.00115623	rfx2
ENSDARG00000024	0.31515599	8.46E-06	pvalb4
ENSDARG00000075	0.31352876	0.0001106	ABCA3
ENSDARG00000044	0.31215929	0.0051553	atg4c
ENSDARG00000074	0.3115315	0.00026877	ptpn5
ENSDARG00000079	0.31128118	1.21E-06	si:ch211-166a6.5
ENSDARG00000054	0.31101786	2.55E-05	CLIP3
ENSDARG00000003	0.30798435	0.00055899	pfas
ENSDARG00000068	0.30771382	0.00431022	trps1
ENSDARG00000055	0.30652647	0.00218877	bambia
ENSDARG00000052	0.30621977	0.00066961	IRS4 (1 of 2)
ENSDARG00000024	0.30559615	0.00217382	CDK5RAP2
ENSDARG00000017	0.30515041	0.00490556	vps13d
ENSDARG00000045	0.3044622	0.00145991	rassf8b
ENSDARG00000015	0.30410192	0.00144791	-
ENSDARG00000004	0.30374046	0.00078394	ddr2l
ENSDARG00000036	0.30192032	0.00031598	st8sia5
ENSDARG00000017	0.30147689	0.00096031	f11r
ENSDARG00000070	0.30121391	0.00014713	ubr2
ENSDARG00000056	0.30064358	0.00189077	FYCO1 (1 of 2)

ENSDARG00000012	0.30031067	0.00013976	taldo1
ENSDARG00000074	0.29899773	0.00043262	CR381676.2
ENSDARG00000042	0.29860728	0.00013426	tmem189
ENSDARG00000039	0.29694609	0.0004774	tefa
ENSDARG00000005	0.29676975	0.00314305	cyb5r3
ENSDARG00000075	0.29669962	0.00532479	akap11
ENSDARG00000074	0.29650743	0.00399817	sema4ba
ENSDARG00000058	0.29628465	0.00194983	zgc:171775
ENSDARG00000022	0.29595734	3.82E-05	zgc:175214
ENSDARG00000041	0.29542241	0.000364	uba52
ENSDARG00000076	0.29485603	0.00062361	RAI1
ENSDARG00000005	0.29472378	0.00061382	limk2
ENSDARG00000002	0.29400507	0.00407145	tbcela
ENSDARG00000001	0.29200548	0.00050727	RBM14 (1 of 2)
ENSDARG00000002	0.29090259	0.00226835	sema6d
ENSDARG00000004	0.29084756	0.00100986	ppp1r13ba
ENSDARG00000060	0.29082559	0.00192768	tecpr2
ENSDARG00000071	0.29066131	0.00045994	insrb
ENSDARG00000079	0.29059732	0.00358892	POLD4
ENSDARG00000086	0.29026639	0.00326076	bri3
ENSDARG00000069	0.29019602	0.00306795	ppp6r2b
ENSDARG00000029	0.28867502	0.00021684	copeb
ENSDARG00000088	0.28858341	0.00443934	wu:fb55g09
ENSDARG00000043	0.28849229	0.00010723	znf292b
ENSDARG00000042	0.28831363	0.00248889	zgc:100920
ENSDARG00000020	0.288202	0.0054452	btg2
ENSDARG00000039	0.28738999	0.00194014	ppt1
ENSDARG00000076	0.28734593	0.00340672	txlnbb
ENSDARG00000039	0.28726596	0.0004353	AMBRA1 (2 of 2)
ENSDARG00000044	0.28681368	0.00208522	cbx2
ENSDARG00000036	0.28658027	0.00354408	golp3l
ENSDARG00000016	0.2850127	0.00029751	psat1
ENSDARG00000035	0.28475351	0.00092607	gabarapa
ENSDARG00000089	0.2834989	0.00219349	PRRT2
ENSDARG00000027	0.28283257	0.00024552	oxsr1b
ENSDARG00000070	0.2815911	0.00478311	ARID3A
ENSDARG00000075	0.2814562	0.00477454	zfhx4
ENSDARG00000007	0.28077398	0.00104595	sash1a
ENSDARG00000010	0.28073127	9.41E-05	DDX17
ENSDARG00000011	0.27994586	0.00072545	arrb2b
ENSDARG00000005	0.27942959	0.00566864	aph1b

ENSDARG00000070	0.27909047	0.00445048	FAM72B
ENSDARG00000075	0.27868276	7.82E-05	PLEKHG4
ENSDARG00000059	0.27713379	0.00303345	MTSS1
ENSDARG00000093	0.27683512	0.00407442	EIF2AK1
ENSDARG00000053	0.27651984	0.00113183	CABZ01086825.1
ENSDARG00000057	0.27648667	0.00439614	PHTF1
ENSDARG00000011	0.27553846	0.00017387	FGFR1A
ENSDARG00000060	0.27488879	0.00261035	CYLD
ENSDARG00000037	0.2748626	0.00305905	-
ENSDARG00000039	0.27453971	0.00080676	IGMN
ENSDARG00000044	0.27446544	0.00301431	ATPIF1 (2 of 2)
ENSDARG00000043	0.27411509	0.0018312	AKAP7
ENSDARG00000038	0.27403722	0.00090421	C3H17orf103
ENSDARG00000075	0.27385848	0.00043052	SI:CH73-138n13.1
ENSDARG00000019	0.27312334	0.00062711	ZHX3
ENSDARG00000031	0.27286773	6.98E-05	PPDPFB
ENSDARG00000076	0.27273193	0.00356511	ZNF451
ENSDARG00000021	0.27233638	0.00013269	TOB1B
ENSDARG00000063	0.2717266	0.0035775	CTSF
ENSDARG00000036	0.27063233	0.00097471	PITX2
ENSDARG00000017	0.26969882	0.00017514	BCOR
ENSDARG00000062	0.26890127	0.00239144	DENND4A
ENSDARG00000009	0.26776454	0.00380442	ANK2 (1 of 2)
ENSDARG00000076	0.26762154	0.00036144	RALGAP1
ENSDARG00000000	0.26728373	0.00026652	SLC40A1
ENSDARG00000077	0.26613339	0.00189153	MYO9B
ENSDARG00000029	0.26579784	0.000822	RPL34
ENSDARG00000013	0.26492452	0.00229963	SORL1
ENSDARG00000033	0.26453412	0.00247331	PHF17
ENSDARG00000089	0.26451527	0.00125056	FCHSD2 (1 of 5)
ENSDARG00000076	0.26370552	0.00059929	PRKAR1A
ENSDARG00000024	0.26294376	0.00273284	DSCAMA
ENSDARG00000002	0.26289856	0.00078758	AVEN
ENSDARG00000055	0.26272283	0.00027319	PTCH2
ENSDARG00000012	0.26088977	0.0052756	PDCCD10B
ENSDARG00000016	0.26083947	0.00102958	PTCH1
ENSDARG00000090	0.25853802	0.00027813	TUSC5 (1 of 2)
ENSDARG00000038	0.25818223	0.00064182	SCG2B
ENSDARG00000002	0.25723301	0.00089842	ZFAND5B
ENSDARG00000001	0.25715353	0.00212116	AFF4
ENSDARG00000013	0.25702837	0.00045902	GLTSCR2

ENSDARG00000015	0.25583314	0.00472463	nadl1.1
ENSDARG00000024	0.25572856	0.00065193	cdh1
ENSDARG00000088	0.2544964	0.00389085	AMPD2 (1 of 2)
ENSDARG00000043	0.25382107	0.0040765	cldne
ENSDARG00000060	0.25361328	0.00540448	C11H19orf6
ENSDARG00000006	0.25299251	0.00021679	laptm4a
ENSDARG00000007	0.25260778	0.00223476	srgap1
ENSDARG00000045	0.25094404	0.00525472	slc38a2
ENSDARG00000003	0.25017816	0.00049612	prnprs3
ENSDARG00000019	0.25006769	0.00141181	aldocb
ENSDARG00000019	0.24958864	0.00404248	rims2a
ENSDARG00000088	0.24935164	0.00155115	RALGAPB
ENSDARG00000061	0.24563341	0.00316734	EIF2C2
ENSDARG00000056	0.24479761	0.00303221	LAMA1
ENSDARG00000015	0.24418354	0.00210954	daam1a
ENSDARG00000073	0.24415152	0.00452603	quo
ENSDARG00000038	0.24296847	0.00032155	tsc22d1
ENSDARG00000069	0.2422519	0.00154389	flot2b
ENSDARG00000020	0.24147996	0.00225609	sesn1
ENSDARG00000060	0.24144277	0.00530988	ATP8B1
ENSDARG00000036	0.24040582	0.0028668	cebpg
ENSDARG00000039	0.24005884	0.00091462	lamb4
ENSDARG00000026	0.23954935	0.00552148	erbb2
ENSDARG00000060	0.23886079	0.00033994	UACA (1 of 2)
ENSDARG00000089	0.23811856	0.00035105	si:dkey-114c15.7
ENSDARG00000079	0.23685245	0.00196879	maml3
ENSDARG00000009	0.23663125	0.00165376	DUSP8 (1 of 2)
ENSDARG00000068	0.23622583	0.00483658	sirt1
ENSDARG00000006	0.2358419	0.00512037	her6
ENSDARG00000011	0.23553821	0.00166834	anxa1c
ENSDARG00000062	0.23509671	0.00235863	TNKS (1 of 2)
ENSDARG00000011	0.23495354	0.00153331	chuk
ENSDARG00000076	0.23382478	0.00470899	SEZ6L2
ENSDARG00000070	0.23372797	0.00253002	vamp3
ENSDARG00000003	0.23347136	0.00330009	stom
ENSDARG00000077	0.23196138	0.00471437	letm2
ENSDARG00000025	0.23013231	0.00169353	gli2a
ENSDARG00000062	0.23011233	0.00410882	hipk3a
ENSDARG00000012	0.2286156	0.00444557	SNAP23 (1 of 2)
ENSDARG00000009	0.22754495	0.00439144	nr1d2b
ENSDARG00000018	0.22690593	0.00186938	rpl35

ENSDARG00000017	0.2265776	0.00092044	txnrd1
ENSDARG00000051	0.22587766	0.00452857	ist1
ENSDARG00000015	0.2257776	0.00483358	fzr1
ENSDARG00000074	0.22549927	0.0036589	ARFGEF2
ENSDARG00000039	0.22538285	0.00115163	rps24
ENSDARG00000056	0.22392625	0.00352977	pikfyve
ENSDARG00000043	0.2217333	0.00043749	PTBP3
ENSDARG00000068	0.22135043	0.00378498	shmt2
ENSDARG00000060	0.22058712	0.00540517	chd2
ENSDARG00000040	0.21960038	0.00165832	rsl24d1
ENSDARG00000044	0.21840687	0.00482952	rbms3
ENSDARG00000017	0.21824004	0.00382723	npc1
ENSDARG00000062	0.21668437	0.00549552	RNF38
ENSDARG00000010	0.21652087	0.00558824	rpl22l1
ENSDARG00000075	0.2144057	0.00387786	myo18aa
ENSDARG00000078	0.21368358	0.00442641	cxxc5
ENSDARG00000071	0.21337422	0.00420363	ryr3
ENSDARG00000052	0.21307848	0.00526939	SPRED2 (2 of 2)
ENSDARG00000056	0.2124765	0.00179037	tax1bp1b
ENSDARG00000074	0.20700811	0.00310579	limch1a
ENSDARG00000042	0.20678935	0.00475524	PAM
ENSDARG00000010	0.20588007	0.00259776	vim
ENSDARG00000035	0.20215934	0.00392985	rps28
ENSDARG00000075	0.20201393	0.00122993	KLC2
ENSDARG00000053	0.20066413	0.00399939	pnrc2
ENSDARG00000012	0.20012365	0.00277182	zgc:77849
ENSDARG00000062	0.19813039	0.00516641	tet3
ENSDARG00000035	0.19780612	0.00474331	eef2k
ENSDARG00000006	0.18022641	0.00462488	lrp5
ENSDARG00000070	0.17820539	0.00476312	jup
ENSDARG00000060	0.17335818	0.00550414	ADAM22
ENSDARG00000022	-0.1800214	0.00410709	clic4
ENSDARG00000028	-0.1845662	0.00381638	sumo3a
ENSDARG00000021	-0.1864664	0.0046476	cdh11
ENSDARG00000061	-0.1878916	0.00377059	cbx5
ENSDARG00000060	-0.1889177	0.00357675	pmp22b
ENSDARG00000005	-0.1896833	0.00478421	IGFN1 (2 of 3)
ENSDARG00000007	-0.1925466	0.0030357	si:ch211-251b21.1
ENSDARG00000040	-0.1935082	0.00339367	syncrip
ENSDARG00000032	-0.1956962	0.00230532	ktn1
ENSDARG00000034	-0.1965687	0.00261367	top2b

ENSDARG00000008	-0.2012916	0.00403226	marcksb
ENSDARG00000010	-0.2022174	0.00298571	eif4bb
ENSDARG00000000	-0.2025456	0.00486837	myh10
ENSDARG00000051	-0.204102	0.00307008	FNBP4
ENSDARG00000009	-0.2050622	0.00501514	med14
ENSDARG00000001	-0.2054545	0.00410104	STT3B
ENSDARG00000028	-0.2056055	0.00552495	znf238
ENSDARG00000091	-0.2078258	0.00166118	MKI67
ENSDARG00000021	-0.2081297	0.00214102	tnc
ENSDARG00000027	-0.2083946	0.00127461	2-Sep
ENSDARG00000077	-0.2093439	0.00120003	smarca4
ENSDARG00000028	-0.2097046	0.00440685	hmga1a
ENSDARG00000012	-0.2097129	0.0023114	pfn2l
ENSDARG00000044	-0.2108845	0.00461432	rtn4a
ENSDARG00000011	-0.2123474	0.00180543	sfpq
ENSDARG00000044	-0.2126819	0.00206532	kars
ENSDARG00000015	-0.2134576	0.00556187	dlat
ENSDARG00000005	-0.2138018	0.00422699	slc39a10
ENSDARG00000093	-0.2139986	0.00298004	si:ch1073-55a19.2
ENSDARG00000038	-0.2140482	0.00267617	casq1a
ENSDARG00000021	-0.2146102	0.00345437	pabpc1b
ENSDARG00000020	-0.2150349	0.00188745	saftb
ENSDARG00000015	-0.2161549	0.00243749	SNAP91 (2 of 2)
ENSDARG00000012	-0.2166706	0.00428562	col5a1
ENSDARG00000002	-0.2181408	0.00244186	ncl
ENSDARG00000023	-0.2186717	0.0017166	tpm4a
ENSDARG00000025	-0.2194824	0.00165491	igfbp5b
ENSDARG00000076	-0.2200232	0.00384297	-
ENSDARG00000077	-0.2214599	0.00102338	SYNPO2L (2 of 2)
ENSDARG00000038	-0.2222157	0.00291919	smc4
ENSDARG00000018	-0.2230825	0.00370176	aldh7a1
ENSDARG00000009	-0.2231029	0.00347764	arf1
ENSDARG00000070	-0.2236841	0.00422666	pa2g4b
ENSDARG00000077	-0.2237577	0.00376536	RBM6
ENSDARG00000053	-0.2246779	0.00317916	itgb1b
ENSDARG00000019	-0.225729	0.00419381	hdgfrp2
ENSDARG00000004	-0.2258289	0.00193555	copa
ENSDARG00000016	-0.2268619	0.00572151	arf1l
ENSDARG00000089	-0.2271635	0.00416146	MYOM2 (3 of 3)
ENSDARG00000019	-0.2272612	0.00430802	mtch2
ENSDARG00000034	-0.2276429	0.00406319	aldoab

ENSDARG00000052	-0.2294924	0.00212734	kpna3
ENSDARG00000057	-0.2295655	0.00048645	chtopa
ENSDARG00000056	-0.2296229	0.00108716	copb1
ENSDARG00000056	-0.2300792	0.0001645	ctcf
ENSDARG00000092	-0.2301553	0.00122241	si:ch211-156j16.1
ENSDARG00000018	-0.2307166	0.0011202	wu:fk48d07
ENSDARG00000063	-0.2309919	0.00534604	mt-nd4l
ENSDARG00000057	-0.2310245	0.00268702	emc1
ENSDARG00000054	-0.2319145	0.00200984	AP2A2
ENSDARG00000025	-0.2320147	0.00516092	prdx2
ENSDARG00000037	-0.2327138	0.00327941	acss2
ENSDARG00000056	-0.2329488	0.00226194	ptenb
ENSDARG00000091	-0.2330242	0.00349118	capn2a
ENSDARG00000071	-0.2332542	0.00247213	smyhc1
ENSDARG00000038	-0.2336589	0.00015988	elavl1
ENSDARG00000053	-0.2342184	0.00094498	fbl
ENSDARG00000036	-0.2343209	0.00513022	CFI
ENSDARG00000057	-0.234376	0.00437655	immt
ENSDARG00000052	-0.234388	0.00237066	dnmt3b
ENSDARG00000037	-0.2344052	0.00268063	kdelr2b
ENSDARG00000015	-0.2345827	0.00135766	hdac1
ENSDARG00000088	-0.2355296	0.00352667	psmd2
ENSDARG00000029	-0.2367311	0.0013116	rab1a
ENSDARG00000043	-0.2372086	0.00525497	gpd1b
ENSDARG00000011	-0.2376318	0.00449271	zgc:66127
ENSDARG00000063	-0.2378631	0.00039301	chd4a
ENSDARG00000037	-0.2378667	0.00039443	uba1
ENSDARG00000010	-0.2401221	0.00038246	igf2bp3
ENSDARG00000063	-0.2401696	0.00185088	bcl11ab
ENSDARG00000019	-0.2402074	0.00077626	COL12A1
ENSDARG00000000	-0.2402649	0.00472376	matr3l1.2
ENSDARG00000090	-0.2402906	0.00067474	MYOM2 (1 of 3)
ENSDARG00000041	-0.240991	0.00078586	hif1a
ENSDARG00000042	-0.2414875	0.00048042	atrx
ENSDARG00000013	-0.2419945	0.00125505	vdac2
ENSDARG00000079	-0.2423719	0.00044359	dhx9
ENSDARG00000021	-0.2425256	0.00412437	CORO1C (2 of 2)
ENSDARG00000032	-0.2425745	0.0007506	ppp1r10
ENSDARG00000020	-0.2426039	0.00074564	cnih
ENSDARG00000052	-0.2428533	0.0044105	ATXN2
ENSDARG00000036	-0.2429426	0.00569661	f2

ENSDARG00000052	-0.2431601	0.00053141	tia1
ENSDARG00000038	-0.2439936	0.0008947	copb2
ENSDARG00000012	-0.2440043	0.0053542	ammecr1
ENSDARG00000068	-0.2453065	0.00502138	sara2
ENSDARG00000055	-0.2453633	0.00216928	pom121
ENSDARG00000076	-0.2456747	0.00448662	ppp4cb
ENSDARG00000086	-0.2479204	0.00294562	MDC1
ENSDARG00000044	-0.2484692	0.0024029	C21H17orf85
ENSDARG00000031	-0.2487162	0.00358768	rcor1
ENSDARG00000074	-0.2487882	0.00116324	eif4g3b
ENSDARG00000005	-0.2491509	0.00070373	map2k6
ENSDARG00000010	-0.2496517	0.00551812	atp1a2a
ENSDARG00000034	-0.2508765	0.00134206	cpsf1
ENSDARG00000056	-0.2510921	0.00190831	nutf2
ENSDARG00000013	-0.2515568	0.00090111	mta2
ENSDARG00000093	-0.2518812	0.00136482	hmgn2
ENSDARG00000044	-0.251935	0.00569248	ppig
ENSDARG00000038	-0.2519668	0.00180425	pccb
ENSDARG00000009	-0.252009	0.00035781	hdlbp
ENSDARG00000070	-0.2523244	0.00309598	TAF15
ENSDARG00000043	-0.2523697	0.00098828	CABZ01014055.1
ENSDARG00000087	-0.2529754	0.00034932	SERBP1 (3 of 3)
ENSDARG00000071	-0.2535704	0.00056495	tgfbi
ENSDARG00000061	-0.2536928	0.0046151	postnb
ENSDARG00000063	-0.2540619	0.00094811	mt-nd5
ENSDARG00000043	-0.2542027	0.00120143	ylpm1
ENSDARG00000052	-0.2549851	0.00459134	suclg1
ENSDARG00000063	-0.2564606	0.00060517	myh9a
ENSDARG00000036	-0.2565287	0.00461052	atp1a3b
ENSDARG00000036	-0.2567806	0.00048876	hnrnpa0b
ENSDARG00000053	-0.2580651	0.00171255	fetub
ENSDARG00000026	-0.2581629	0.00528426	whsc1
ENSDARG00000008	-0.2585412	0.00168278	epas1a
ENSDARG00000089	-0.2588106	4.44E-05	hapln1a
ENSDARG00000011	-0.2595933	0.00516692	ahsa1l
ENSDARG00000042	-0.2597735	0.00231041	acbd3
ENSDARG00000002	-0.2599981	0.00073436	smu1
ENSDARG00000041	-0.2616144	0.00109104	tmem33
ENSDARG00000019	-0.2616949	0.00097069	sparc
ENSDARG00000012	-0.262111	0.00142018	tmem161a
ENSDARG00000044	-0.2623303	0.00487863	suclg2

ENSDARG00000093	-0.2629262	0.00145002	lamc3
ENSDARG00000004	-0.2631735	0.00082472	prkcsh
ENSDARG00000076	-0.2635951	0.00531989	PAQR4 (1 of 2)
ENSDARG00000075	-0.2644667	0.00130263	ARHGEF2 (1 of 2)
ENSDARG00000007	-0.2647496	0.00348504	aco2
ENSDARG00000013	-0.2651786	0.00196527	ck2a2b
ENSDARG00000035	-0.2659075	0.00118922	dync1li2
ENSDARG00000019	-0.2667163	0.00193192	NRD1 (1 of 2)
ENSDARG00000009	-0.2668821	0.0040392	C17H14orf166
ENSDARG00000054	-0.2675479	0.00297315	ghra
ENSDARG00000058	-0.2680611	0.00347444	smyd1b
ENSDARG00000004	-0.2687388	0.00034259	hnrnpu
ENSDARG00000016	-0.269616	0.00104083	RNF20
ENSDARG00000014	-0.2707255	0.00221324	ranbp1
ENSDARG00000028	-0.2716937	0.00120848	adnp2b
ENSDARG00000058	-0.2720286	0.00398296	sardh
ENSDARG00000023	-0.2726163	0.00182719	anp32b
ENSDARG00000012	-0.2729757	0.0046387	mphosph10
ENSDARG00000003	-0.273086	0.00056447	hnrpd1
ENSDARG00000002	-0.2734216	0.00042152	sdcc2
ENSDARG00000015	-0.2735587	0.00077679	rwdd1
ENSDARG00000036	-0.2735598	0.00172195	CU019646.1
ENSDARG00000093	-0.2747091	0.00566161	sepp1a
ENSDARG00000057	-0.2747383	9.93E-05	srsf1a
ENSDARG00000012	-0.2751437	0.00025676	rap1a
ENSDARG00000054	-0.276398	0.00403216	rfc1
ENSDARG00000036	-0.2774282	0.00168912	hnrnpa1
ENSDARG00000071	-0.2783049	1.59E-05	smyhc2
ENSDARG00000017	-0.2786411	0.00080264	smc2
ENSDARG00000055	-0.2787024	0.00162323	nkrf
ENSDARG00000024	-0.2796108	0.00019944	tnw
ENSDARG00000059	-0.279614	0.0006954	rpn1
ENSDARG00000061	-0.2807839	0.00044024	CABZ01055343.2
ENSDARG00000019	-0.2816341	0.00024726	sema3aa
ENSDARG00000003	-0.2816949	5.83E-05	aqp3a
ENSDARG00000038	-0.2823064	0.00016547	jph1b
ENSDARG00000079	-0.2823102	0.0032004	zgc:162200
ENSDARG00000018	-0.2828581	0.0009757	carm1
ENSDARG00000009	-0.283167	0.00230226	snrpc
ENSDARG00000006	-0.2835717	4.98E-05	rbm25
ENSDARG00000001	-0.2849318	4.54E-05	tuba1l2

ENSDARG00000058	-0.2858841	0.00221667	nop58
ENSDARG00000008	-0.2861117	0.00160652	fkbp4
ENSDARG00000024	-0.2861321	0.00052517	nolc1
ENSDARG00000037	-0.2867416	1.58E-05	canx
ENSDARG00000077	-0.2870369	1.72E-05	snrnp70
ENSDARG00000051	-0.2872848	0.00081499	MMP15 (2 of 2)
ENSDARG00000035	-0.2877872	0.00122898	ptp4a2
ENSDARG00000037	-0.2879376	0.00014496	ddost
ENSDARG00000057	-0.2882415	0.00058994	sap18
ENSDARG00000063	-0.2884283	0.00471239	mt-nd3
ENSDARG00000057	-0.2885383	0.00142032	ptcd3
ENSDARG00000092	-0.2892666	0.00118454	TMSB10 (1 of 2)
ENSDARG00000070	-0.2894419	0.00371172	atad5a
ENSDARG00000038	-0.2897917	0.00235447	acaa2
ENSDARG00000044	-0.2901145	0.00491824	prrc1
ENSDARG00000042	-0.2911449	0.00038837	serpinc1
ENSDARG00000018	-0.291539	0.00026508	larp1
ENSDARG00000039	-0.2916151	0.00284021	nasp
ENSDARG00000043	-0.2930618	0.00054833	sox9b
ENSDARG00000011	-0.2934307	0.00444672	slc26a2
ENSDARG00000056	-0.2939225	0.00263862	ca6
ENSDARG00000028	-0.2941032	7.38E-05	itgb4
ENSDARG00000055	-0.2942918	0.00233198	ruvbl2
ENSDARG00000013	-0.2945016	0.00309461	anxa6
ENSDARG00000053	-0.2946746	0.00054879	hnrnpc
ENSDARG00000090	-0.2947006	0.00565422	pdgfra
ENSDARG00000007	-0.2951155	1.34E-05	cx43.4
ENSDARG00000016	-0.2951981	0.00034265	nup107
ENSDARG00000014	-0.2956879	0.00015092	zgc:77086
ENSDARG00000067	-0.29599	0.00079458	ggcx
ENSDARG00000010	-0.2962949	0.00127533	grpel1
ENSDARG00000020	-0.2965998	0.00018795	srp68
ENSDARG00000007	-0.2967833	0.00019799	actn1
ENSDARG00000074	-0.2977105	0.00024816	GPAM
ENSDARG00000075	-0.2986188	9.15E-05	EIF4G1 (3 of 3)
ENSDARG00000014	-0.2992175	0.0004651	npm1a
ENSDARG00000045	-0.2992456	0.00024734	si:ch211-51e12.7
ENSDARG00000010	-0.2993026	8.55E-05	pank1b
ENSDARG00000059	-0.2994427	0.00354899	cdk11b
ENSDARG00000076	-0.2995261	0.00172103	ACTR3
ENSDARG00000060	-0.3012084	0.0014422	mogs

ENSDARG00000015	-0.3017664	0.0003625	znf207b
ENSDARG00000044	-0.3025545	0.00072498	zranb2
ENSDARG00000018	-0.3026479	0.00197422	crtap
ENSDARG00000006	-0.3027286	0.00091033	ppp2r2a
ENSDARG00000086	-0.3030118	0.00031439	NAT16
ENSDARG00000059	-0.3036277	0.00217402	mlec
ENSDARG00000055	-0.3038106	0.00118932	C3H16orf72
ENSDARG00000002	-0.3045391	0.00035573	ruvbl1
ENSDARG00000024	-0.3052467	3.26E-05	emilin1a
ENSDARG00000006	-0.3057185	3.81E-05	EIF4G1 (1 of 3)
ENSDARG00000062	-0.3064194	0.0001854	edc4
ENSDARG00000036	-0.306631	3.22E-05	hnrnpa0l
ENSDARG00000016	-0.3070556	0.00141355	eif4enif1
ENSDARG00000029	-0.3071212	0.00041426	rbb4
ENSDARG00000054	-0.3077487	0.0020961	uggt1
ENSDARG00000051	-0.3077891	0.00088597	ccnb1
ENSDARG00000027	-0.3080251	0.00296472	zgc:165543
ENSDARG00000079	-0.3084212	0.00366282	RLIM
ENSDARG00000015	-0.3086073	0.00169124	ddx39ab
ENSDARG00000061	-0.3091012	0.0035018	CHST6
ENSDARG00000003	-0.3100014	1.48E-05	setb
ENSDARG00000018	-0.3101815	0.00147766	snrpa
ENSDARG00000040	-0.3102181	0.00046126	ldha
ENSDARG00000061	-0.3107931	0.00043606	baz1b
ENSDARG00000091	-0.3109176	0.00074029	pmela
ENSDARG00000063	-0.3109724	5.66E-05	mt-nd2
ENSDARG00000041	-0.311052	0.00042159	tsc22d2
ENSDARG00000023	-0.3111451	3.14E-05	cdv3
ENSDARG00000007	-0.3114561	0.00146763	nfkbiab
ENSDARG00000093	-0.3117534	0.00347235	-
ENSDARG00000020	-0.31214	0.00524772	prkg1a
ENSDARG00000070	-0.3126705	0.00376726	eny2
ENSDARG00000088	-0.312713	0.00189087	thoc1
ENSDARG00000011	-0.3128108	5.15E-06	mybpc3
ENSDARG00000031	-0.3137607	0.00150624	srpk1b
ENSDARG00000010	-0.3144039	0.00030773	prmt1
ENSDARG00000022	-0.3147118	2.64E-05	rbm4.3
ENSDARG00000004	-0.314718	0.0004311	sel1l
ENSDARG00000087	-0.314829	0.00487449	znf574
ENSDARG00000007	-0.3154529	0.00010127	hnrnpab
ENSDARG00000035	-0.3157138	0.00279122	mfsd2ab

ENSDARG00000091	-0.3160941	0.0018586	foxc1a
ENSDARG00000012	-0.3161953	0.00279631	adssl
ENSDARG00000040	-0.3172159	0.00106755	kpnb3
ENSDARG00000061	-0.3174009	0.00355074	LMLN
ENSDARG00000090	-0.3179563	1.08E-05	serpina1
ENSDARG00000042	-0.3180115	0.00293105	UTP14C
ENSDARG00000015	-0.3184832	0.00548659	MPP3 (1 of 2)
ENSDARG00000079	-0.3186315	2.92E-05	vmhc
ENSDARG00000018	-0.3189259	0.00063033	sf3b4
ENSDARG00000003	-0.3189556	0.00353786	clock3
ENSDARG00000019	-0.3191697	0.00121936	pdlim1
ENSDARG00000041	-0.3197988	0.00336465	ceacam1
ENSDARG00000062	-0.320072	0.00333777	frem1b
ENSDARG00000016	-0.3201586	0.00022316	dkc1
ENSDARG00000014	-0.3204715	0.00019938	rrm1
ENSDARG00000076	-0.3209445	0.00082453	sec61b
ENSDARG00000058	-0.3210412	0.00251349	ugcg
ENSDARG00000008	-0.321973	0.00142799	prkcba
ENSDARG00000030	-0.3220439	0.00557848	acads
ENSDARG00000008	-0.3220906	0.00158159	pole3
ENSDARG00000091	-0.3221776	0.0001107	MYOM1
ENSDARG00000071	-0.3224088	0.00414386	EEF1E1
ENSDARG00000043	-0.3227548	0.00104603	slc1a3b
ENSDARG00000017	-0.3230474	0.00011673	prss35
ENSDARG00000079	-0.3231848	0.00067089	DCLK2 (3 of 3)
ENSDARG00000044	-0.3233333	0.00084526	padi2
ENSDARG00000002	-0.323352	6.87E-07	mapre1b
ENSDARG00000040	-0.3233536	0.00220584	gpd1l
ENSDARG00000042	-0.3235494	0.00310481	chrac1
ENSDARG00000044	-0.323618	1.85E-06	lmnb1
ENSDARG00000089	-0.3236239	2.93E-05	akap8l
ENSDARG00000002	-0.3240803	1.20E-06	arcn1a
ENSDARG00000055	-0.3243879	0.00348876	acad9
ENSDARG00000078	-0.3248595	0.00140818	si:ch211-80h18.1
ENSDARG00000005	-0.3254462	8.84E-05	ssr2
ENSDARG00000014	-0.3257471	0.00086928	g3bp2
ENSDARG00000016	-0.3257928	0.00036958	fxr2
ENSDARG00000031	-0.3260899	0.00037053	abcf1
ENSDARG00000016	-0.3262536	0.00169337	gys1
ENSDARG00000029	-0.3263836	0.00031436	ssb
ENSDARG00000070	-0.3266755	0.00129486	tnrc5

ENSDARG00000036	-0.3266921	6.45E-05	gatm
ENSDARG00000005	-0.3267237	3.02E-05	ahcy
ENSDARG00000069	-0.3268591	0.00175632	cldnh
ENSDARG00000008	-0.3270602	0.00538451	tfap2e
ENSDARG00000056	-0.3273079	8.26E-05	epyc
ENSDARG00000058	-0.3273664	0.00097103	bin1
ENSDARG00000057	-0.3276224	0.00313891	leprel4
ENSDARG00000057	-0.3279982	0.00226804	prep
ENSDARG00000090	-0.3282273	9.10E-06	zgc:86896
ENSDARG00000015	-0.3286294	0.00197164	creb3l1
ENSDARG00000002	-0.3291393	1.95E-05	tnnt2d
ENSDARG00000069	-0.3293225	0.00170019	crygm2d8
ENSDARG00000013	-0.3308641	8.51E-05	tdg
ENSDARG00000041	-0.3314838	0.00018775	ces2
ENSDARG00000068	-0.331577	0.00353541	ptgesl
ENSDARG00000054	-0.3320194	6.66E-06	ccdc47
ENSDARG00000019	-0.3324134	0.00055552	CR354540.2
ENSDARG00000087	-0.33247	0.00110904	si:ch211-212n6.17
ENSDARG00000033	-0.3327915	0.00076091	tagln2
ENSDARG00000015	-0.3328999	2.50E-05	HNRNPU (2 of 2)
ENSDARG00000070	-0.3335688	0.00549631	fam132a
ENSDARG00000076	-0.3337573	0.00017252	atp1b1b
ENSDARG00000031	-0.3338243	0.00012305	seta
ENSDARG00000004	-0.3348579	0.00550606	hspa4a
ENSDARG00000029	-0.3353466	7.44E-07	impdh1b
ENSDARG00000005	-0.3365056	8.05E-08	kdelr2a
ENSDARG00000012	-0.3365727	8.78E-05	eftud2
ENSDARG00000012	-0.3372261	0.0002768	scp2a
ENSDARG00000034	-0.3372669	0.00194267	col27a1a
ENSDARG00000057	-0.337859	0.00045353	papss1
ENSDARG00000052	-0.3379609	0.00067294	tbl3
ENSDARG00000045	-0.3383927	0.00030072	vsg1
ENSDARG00000043	-0.3392087	2.35E-05	lrpprc
ENSDARG00000044	-0.3392185	0.00443196	cstf1
ENSDARG00000038	-0.3402283	0.00512551	rad50
ENSDARG00000045	-0.3407419	0.00279984	nans
ENSDARG00000044	-0.341502	0.00411641	gxylt2
ENSDARG00000037	-0.3428203	0.00369501	pwp2h
ENSDARG00000063	-0.3428495	1.42E-05	mt-nd1
ENSDARG00000052	-0.3429779	0.00018902	pdcd11
ENSDARG00000079	-0.3431742	1.97E-06	supt16h

ENSDARG00000019	-0.3436557	1.35E-05	etnk1
ENSDARG00000039	-0.3439747	0.00053494	tyr
ENSDARG00000036	-0.3443529	0.00027967	txnl4a
ENSDARG00000061	-0.3449494	0.00399383	lap3
ENSDARG00000042	-0.34521	0.00315617	klf2a
ENSDARG00000042	-0.3454389	0.00357752	aqp11
ENSDARG00000033	-0.3458224	0.00508889	NOP14
ENSDARG00000055	-0.3471069	0.00528693	pelo
ENSDARG00000040	-0.3471124	0.00011103	CDC37
ENSDARG00000036	-0.3473472	7.70E-07	col18a1
ENSDARG00000013	-0.3479614	0.00046957	THOP1
ENSDARG00000059	-0.3482637	0.00403012	nol6
ENSDARG00000052	-0.3484784	0.00217267	fgfr1b
ENSDARG00000074	-0.3485022	0.00493629	aurkaip1
ENSDARG00000062	-0.3489666	0.00016232	uggt2
ENSDARG00000052	-0.3489894	2.10E-05	tpra
ENSDARG00000092	-0.349011	6.77E-06	ppib
ENSDARG00000087	-0.3491379	0.00107366	znf648
ENSDARG00000063	-0.349726	0.00031357	nup210
ENSDARG00000027	-0.3497775	7.33E-05	tgfb2
ENSDARG00000079	-0.3502379	0.00177126	zgc:174877
ENSDARG00000004	-0.3507269	0.00070672	mtdhd
ENSDARG00000036	-0.3509825	3.61E-05	ifrd2
ENSDARG00000009	-0.35101	6.85E-06	caprin1a
ENSDARG00000013	-0.3515643	0.00190347	g6pca.2
ENSDARG00000031	-0.3518304	8.15E-06	COL5A2 (1 of 2)
ENSDARG00000086	-0.3529417	0.00103985	STBD1
ENSDARG00000007	-0.3529793	0.00384084	MRTO4
ENSDARG00000018	-0.3548765	0.00124728	UTP20
ENSDARG00000029	-0.3553467	0.00020288	slc25a12
ENSDARG00000090	-0.3556821	0.00020007	myh6
ENSDARG00000054	-0.355894	0.00106257	rars
ENSDARG00000076	-0.3561936	0.00508084	FAM198A
ENSDARG00000069	-0.3562648	0.00013494	tmco1
ENSDARG00000055	-0.356983	0.00085191	pygma
ENSDARG00000008	-0.3577993	0.00087083	hprt1
ENSDARG00000025	-0.3581281	0.00358948	plekhg5a
ENSDARG00000005	-0.3582483	0.00149528	sec61a12
ENSDARG00000009	-0.3585912	2.74E-05	col16a1
ENSDARG00000068	-0.3585989	0.00021126	slc16a1
ENSDARG00000056	-0.3587856	0.00013332	tyrp1b

ENSDARG00000009	-0.358902	0.00148496	mef2cb
ENSDARG00000008	-0.3594041	0.00440015	fgb
ENSDARG00000079	-0.3595495	8.03E-05	gmps
ENSDARG00000042	-0.3596319	0.00217054	tyms
ENSDARG00000041	-0.3606425	0.00030386	tufm
ENSDARG00000013	-0.361133	0.00038938	skiv2l2
ENSDARG00000074	-0.3611991	0.00011185	eif2b5
ENSDARG00000034	-0.361267	0.0046656	cyp2aa3
ENSDARG00000040	-0.3613396	0.00017213	mthfd1b
ENSDARG00000062	-0.3614614	0.00078205	znf652
ENSDARG00000036	-0.3615733	0.0003935	cebpa
ENSDARG00000038	-0.3617654	0.00062986	ergic3
ENSDARG00000005	-0.3620432	3.03E-06	hnrnph1l
ENSDARG00000074	-0.3621079	0.00142457	BNC1
ENSDARG00000075	-0.3623953	0.00348999	mkxa
ENSDARG00000070	-0.3630324	3.61E-05	tuba8l3
ENSDARG00000054	-0.3632587	4.11E-05	anp32e
ENSDARG00000079	-0.3636375	0.00066199	sap130b
ENSDARG00000067	-0.3639558	5.06E-05	nmrk2
ENSDARG00000074	-0.3643635	9.22E-05	hlfa
ENSDARG00000029	-0.3645973	2.61E-05	ilf3b
ENSDARG00000070	-0.3651479	0.00362694	crip2
ENSDARG00000033	-0.3651975	0.00323988	polr2c
ENSDARG00000062	-0.3653294	0.00148473	LMOD3
ENSDARG00000056	-0.3656244	0.00011712	PCOLCE (1 of 2)
ENSDARG00000057	-0.3663557	5.30E-05	pgam2
ENSDARG00000069	-0.3669152	0.00020182	col7a1l
ENSDARG00000045	-0.368104	1.94E-05	fkbp10b
ENSDARG00000071	-0.3681434	8.98E-05	abi3bp
ENSDARG00000036	-0.3683105	0.00262097	ANPEP (4 of 5)
ENSDARG00000025	-0.3687266	0.00057552	srsf3a
ENSDARG00000020	-0.3688605	0.00529633	lpin1
ENSDARG00000036	-0.3690045	0.00026821	rbm4.1
ENSDARG00000016	-0.3697909	0.0002941	kpna1
ENSDARG00000070	-0.3698372	0.00291509	KRTCAP2
ENSDARG00000088	-0.3699372	0.00092352	srp14
ENSDARG00000011	-0.3701181	0.00053278	nae1
ENSDARG00000010	-0.3701561	3.91E-05	slc20a1b
ENSDARG00000038	-0.3705476	1.21E-08	pik3r1
ENSDARG00000070	-0.370567	4.77E-06	top1l
ENSDARG00000017	-0.3711321	0.00048436	zgc:86841

ENSDARG00000034	-0.3714152	0.00500072	atp1b2b
ENSDARG00000071	-0.3721095	0.001315	lrrc39
ENSDARG00000015	-0.372422	1.35E-06	rbb4l
ENSDARG00000057	-0.3724526	2.61E-07	CU306817.2
ENSDARG00000040	-0.3725601	1.38E-05	ssr1
ENSDARG00000071	-0.3726158	0.00314865	ndc80
ENSDARG00000088	-0.3727353	0.00336694	tmem104
ENSDARG00000036	-0.3727867	0.00011531	sema3e
ENSDARG00000019	-0.373281	0.00104684	gpt2l
ENSDARG00000078	-0.3737082	7.00E-05	COL22A1
ENSDARG00000061	-0.3737204	0.00469917	tbc1d2b
ENSDARG00000005	-0.374091	0.00017857	smyd2b
ENSDARG00000035	-0.3748328	1.39E-05	-
ENSDARG00000042	-0.3749802	0.00046663	prkrra
ENSDARG00000057	-0.3751526	0.00158725	mrps31
ENSDARG00000077	-0.3752002	0.00021174	cd248b
ENSDARG00000019	-0.375266	0.00014343	parp1
ENSDARG00000043	-0.3754293	9.04E-06	etf1
ENSDARG00000032	-0.3757687	3.77E-05	ddx1
ENSDARG00000060	-0.3765661	0.00110653	scn1ba
ENSDARG00000068	-0.3771118	0.00025306	hapln1b
ENSDARG00000062	-0.3772292	0.0031052	glsa
ENSDARG00000045	-0.3772527	2.26E-07	calua
ENSDARG00000074	-0.377345	0.00057459	LARP4 (2 of 2)
ENSDARG00000006	-0.3774278	0.0049084	glra4a
ENSDARG00000021	-0.3777473	4.70E-07	mybpc2b
ENSDARG00000020	-0.3784132	6.42E-06	col1a2
ENSDARG00000061	-0.3784967	2.57E-06	col6a2
ENSDARG00000056	-0.3790117	5.85E-08	and3
ENSDARG00000059	-0.3796729	6.18E-05	ptrfb
ENSDARG00000039	-0.3800015	5.20E-05	mrpl38
ENSDARG00000020	-0.3800316	6.50E-06	dpp3
ENSDARG00000045	-0.3805193	2.20E-05	lum
ENSDARG00000025	-0.3807649	9.44E-05	pfdn2
ENSDARG00000027	-0.3817292	8.34E-05	hirip3
ENSDARG00000044	-0.3817482	1.20E-06	loxl2b
ENSDARG00000011	-0.3819306	2.41E-05	COL2A1 (2 of 2)
ENSDARG00000040	-0.3820286	3.57E-06	apoa4
ENSDARG00000036	-0.3829165	1.02E-05	slc39a7
ENSDARG00000079	-0.3832085	0.00015799	parp2
ENSDARG00000000	-0.3834103	1.30E-08	pcl

ENSDARG00000009	-0.3843583	3.60E-08	col11a1b
ENSDARG00000010	-0.3845259	0.00286165	slc25a25a
ENSDARG00000043	-0.3851128	4.47E-07	ckbb
ENSDARG00000012	-0.3853215	0.00437255	umps
ENSDARG00000016	-0.3854665	2.52E-05	cdk8
ENSDARG00000069	-0.3856054	8.51E-05	dynll2a
ENSDARG00000043	-0.3861889	0.0012015	znf259
ENSDARG00000012	-0.3862579	2.78E-06	zgc:63663
ENSDARG00000015	-0.3862828	4.49E-06	zc3h15
ENSDARG00000076	-0.3864727	1.88E-06	calrl2
ENSDARG00000016	-0.3868249	5.45E-05	rtn2a
ENSDARG00000007	-0.3868684	3.12E-06	abce1
ENSDARG00000069	-0.3869544	3.64E-06	pdia5
ENSDARG00000020	-0.3879083	9.00E-06	ewsr1a
ENSDARG00000006	-0.3885368	4.82E-08	dct
ENSDARG00000013	-0.3887955	9.71E-06	rrbp1a
ENSDARG00000052	-0.3890499	8.44E-09	p4hb
ENSDARG00000053	-0.3902513	1.23E-05	itm1
ENSDARG00000012	-0.3903274	3.74E-06	col11a2
ENSDARG00000068	-0.3904836	0.00152308	pdlim4
ENSDARG00000021	-0.3912236	2.60E-05	sec31a
ENSDARG00000041	-0.3916352	2.22E-07	rrbp1b
ENSDARG00000007	-0.3919438	8.31E-05	ehd3
ENSDARG00000006	-0.3924255	0.00354813	CRELD1 (1 of 2)
ENSDARG00000044	-0.3926653	0.00030804	nol8
ENSDARG00000060	-0.3932876	0.00071563	dis3
ENSDARG00000043	-0.3936862	0.00026657	nop2
ENSDARG00000019	-0.3937331	2.57E-05	sec23b
ENSDARG00000027	-0.3937602	0.00461721	ccne2
ENSDARG00000015	-0.3942891	0.00325189	cx44.1
ENSDARG00000006	-0.3946798	1.31E-06	AEBP1 (2 of 2)
ENSDARG00000059	-0.3957261	0.00438546	-
ENSDARG00000014	-0.3960601	0.00167424	dgkza
ENSDARG00000016	-0.3964546	0.00035193	CRAT (2 of 2)
ENSDARG00000005	-0.3968146	2.21E-05	calub
ENSDARG00000006	-0.3970002	2.37E-05	cse1l
ENSDARG00000032	-0.3971984	5.78E-07	tob1a
ENSDARG00000053	-0.3975977	0.00450199	lmo7b
ENSDARG00000088	-0.3982325	8.03E-05	lman2lb
ENSDARG00000017	-0.3995316	2.00E-05	krt4
ENSDARG00000003	-0.3997431	0.00234508	unc45a

ENSDARG00000026	-0.3999132	1.55E-07	col11a1a
ENSDARG00000056	-0.4000287	9.48E-07	hspd1
ENSDARG00000020	-0.4005465	0.00222953	ODF2 (2 of 2)
ENSDARG00000021	-0.4007449	2.36E-05	st8sia6
ENSDARG00000071	-0.4015959	0.00272779	actn2
ENSDARG00000057	-0.4035434	8.69E-06	hadhaa
ENSDARG00000074	-0.4035628	0.00018468	tbrg4
ENSDARG00000055	-0.4043907	0.00106681	mcmbp
ENSDARG00000006	-0.4047615	0.00063732	fn1b
ENSDARG00000010	-0.4049788	3.46E-06	cp
ENSDARG00000057	-0.4059216	3.19E-05	HADHB
ENSDARG00000060	-0.4060325	0.00016761	nom1
ENSDARG00000028	-0.4064138	1.67E-06	pcca
ENSDARG00000057	-0.406598	0.00310503	C1H4orf27
ENSDARG00000006	-0.4067443	2.00E-07	tuba8l4
ENSDARG00000031	-0.4068306	0.00209188	tim50
ENSDARG00000011	-0.4069075	0.00024661	msh6
ENSDARG00000017	-0.4069085	0.00184559	tmed1b
ENSDARG00000039	-0.407697	1.08E-07	pa2g4a
ENSDARG00000002	-0.407762	0.00222513	CEP135
ENSDARG00000026	-0.4078026	0.00048674	syncrpl
ENSDARG00000005	-0.4078918	5.29E-06	atp2a2b
ENSDARG00000076	-0.4086423	0.00468213	mtp
ENSDARG00000035	-0.4087961	2.54E-08	stm
ENSDARG00000035	-0.4107379	0.00043699	surf4l
ENSDARG00000075	-0.4107458	0.00031223	cfh
ENSDARG00000075	-0.4109758	6.17E-08	ppm1g
ENSDARG00000041	-0.4115378	0.00211159	rrp9
ENSDARG00000020	-0.4124883	0.00011537	ezrl
ENSDARG00000091	-0.4137921	0.00547056	TTF1 (5 of 6)
ENSDARG00000069	-0.4138722	1.40E-08	hmga2
ENSDARG00000023	-0.4141428	0.00446282	snrnp40
ENSDARG00000079	-0.4148754	1.21E-06	cd248a
ENSDARG00000070	-0.4159653	5.68E-05	rcn1
ENSDARG00000019	-0.4176297	0.00030492	tram1
ENSDARG00000061	-0.4188441	3.63E-07	sgpl1
ENSDARG00000012	-0.4191753	6.46E-05	vmp1
ENSDARG00000060	-0.4192656	0.00038703	col8a2
ENSDARG00000019	-0.4194467	0.00132742	mpx
ENSDARG00000039	-0.4195976	0.00104133	prom2
ENSDARG00000030	-0.4196462	0.00010239	ctps1a

ENSDARG00000045	-0.4208541	0.00032925	arf4a
ENSDARG00000060	-0.4225279	6.18E-08	hadhab
ENSDARG00000024	-0.4231916	1.24E-06	col9a2
ENSDARG00000055	-0.4232651	1.53E-05	CR925817.1
ENSDARG00000010	-0.4234424	0.00021326	ezh2
ENSDARG00000058	-0.4239595	1.14E-05	tim13
ENSDARG00000076	-0.4242925	8.17E-06	emid1
ENSDARG00000018	-0.4248908	4.44E-05	msh2
ENSDARG00000000	-0.425709	4.74E-11	KRT23 (1 of 15)
ENSDARG00000053	-0.4259842	0.00111411	cmyb
ENSDARG00000030	-0.426899	0.00117027	mybl1
ENSDARG00000095	-0.426974	6.00E-05	myha
ENSDARG00000020	-0.42894	0.00124436	OTOF (2 of 2)
ENSDARG00000058	-0.4291553	1.92E-05	pdcd8
ENSDARG00000016	-0.4294997	0.00019701	bcan
ENSDARG00000052	-0.431864	1.31E-08	smarca5
ENSDARG00000004	-0.4319537	1.86E-05	tnfsf10l
ENSDARG00000063	-0.4324163	3.79E-07	ch1073-291c23.1
ENSDARG00000019	-0.4326139	0.00267417	idi1
ENSDARG00000008	-0.43342	0.00046062	e2f7
ENSDARG00000058	-0.4334281	0.0010721	chtf18
ENSDARG00000076	-0.4336114	5.92E-09	si:dkey-65b12.6
ENSDARG00000012	-0.4337327	3.06E-07	col1a1a
ENSDARG00000037	-0.4341023	3.12E-05	fgg
ENSDARG00000078	-0.4350304	0.00498308	fam98a
ENSDARG00000016	-0.4350334	0.00231168	CCDC39
ENSDARG00000019	-0.4358524	1.03E-05	cmpk
ENSDARG00000079	-0.4368519	0.00196595	DHX32 (2 of 2)
ENSDARG00000039	-0.4371727	3.40E-05	ptp4a3
ENSDARG00000068	-0.4377758	2.54E-08	psmd7
ENSDARG00000036	-0.4379889	2.60E-05	tomm40l
ENSDARG00000003	-0.4379943	0.00144794	col4a3
ENSDARG00000014	-0.4380178	1.57E-06	pfkfa
ENSDARG00000017	-0.4406457	0.00018585	adsl
ENSDARG00000004	-0.441931	0.001092	wdr36
ENSDARG00000074	-0.442436	7.12E-05	si:ch73-138e16.6
ENSDARG00000038	-0.4430274	2.60E-07	ddx5
ENSDARG00000069	-0.4435045	0.00026896	esrra
ENSDARG00000003	-0.4436878	0.0003896	wdr12
ENSDARG00000020	-0.4446174	8.92E-06	fbp1b
ENSDARG00000055	-0.4447096	1.09E-06	acta1b

ENSDARG00000038	-0.4450443	0.00036494	entpd4
ENSDARG00000037	-0.4465859	0.00480509	CLEC19A
ENSDARG00000093	-0.4471539	0.004591	si:dkey-117n7.2
ENSDARG00000090	-0.4481578	0.00405519	NAT14
ENSDARG00000035	-0.4486993	7.42E-07	col1a1b
ENSDARG00000030	-0.4490131	1.53E-07	zgc:152873
ENSDARG00000078	-0.4493136	0.00508554	si:ch211-19719.2
ENSDARG00000056	-0.4502725	2.55E-07	a2ml
ENSDARG00000007	-0.4505963	2.56E-06	fabp7a
ENSDARG00000031	-0.4509334	0.00164179	sap30bp
ENSDARG00000040	-0.4511673	5.89E-05	rx2
ENSDARG00000054	-0.4513425	3.68E-06	lox1
ENSDARG00000037	-0.4514314	0.00171489	rpa2
ENSDARG00000075	-0.451677	0.00286153	adamts22
ENSDARG00000058	-0.4529582	1.85E-05	sephs1
ENSDARG00000069	-0.4531417	1.54E-07	col2a1a
ENSDARG00000010	-0.4542611	4.75E-05	sarm1
ENSDARG00000024	-0.4545624	2.60E-05	mrps18a
ENSDARG00000037	-0.4559557	1.14E-07	ptges3a
ENSDARG00000069	-0.4559632	0.00142388	prdx4
ENSDARG00000019	-0.4581888	0.00229317	oatx
ENSDARG00000070	-0.4583045	0.0002865	fam212aa
ENSDARG00000005	-0.4588786	0.00389904	AL929150.1
ENSDARG00000059	-0.458903	0.00015701	MYOM3
ENSDARG00000024	-0.4608705	0.00388448	ptgr1
ENSDARG00000007	-0.4615136	0.00239243	re1t
ENSDARG00000045	-0.4627568	1.49E-07	EGFL6
ENSDARG00000076	-0.4628389	0.00019819	si:ch211-55g3.6
ENSDARG00000074	-0.465111	0.00050439	ZCCHC6
ENSDARG00000063	-0.4652209	5.65E-06	lrrc58b
ENSDARG00000006	-0.4653377	1.04E-05	pdgfr1
ENSDARG00000037	-0.4653384	3.15E-05	gcdh
ENSDARG00000017	-0.4656904	7.09E-09	HNRNPAB (2 of 2)
ENSDARG00000008	-0.4657716	4.57E-05	unc45b
ENSDARG00000015	-0.4659535	0.00103606	pola2
ENSDARG00000071	-0.4666514	4.26E-08	AL929007.1
ENSDARG00000036	-0.4667447	1.21E-09	acta1a
ENSDARG00000091	-0.4670674	3.75E-05	gpx7
ENSDARG00000027	-0.4675228	2.76E-06	naa50
ENSDARG00000030	-0.467986	2.09E-06	dnaja1l
ENSDARG00000053	-0.4680071	2.98E-06	HSPA4L

ENSDARG00000009	-0.4681261	1.60E-05	slmo2
ENSDARG00000056	-0.468293	5.88E-05	wu:fb15e04
ENSDARG00000010	-0.4683208	1.40E-05	dpydb
ENSDARG00000051	-0.4684098	0.00030224	pc
ENSDARG00000067	-0.4690411	7.23E-08	myhz1.3
ENSDARG00000076	-0.46931	0.00011182	COL14A1 (2 of 2)
ENSDARG00000012	-0.4699152	2.30E-06	psme3
ENSDARG00000033	-0.4704464	4.77E-08	pmelb
ENSDARG00000016	-0.4706178	7.68E-05	ipo9
ENSDARG00000051	-0.4706209	0.00013426	STX3 (2 of 2)
ENSDARG00000012	-0.4712541	0.00097063	ptpn11b
ENSDARG00000054	-0.4713704	2.28E-08	pcna
ENSDARG00000012	-0.4722409	0.00322011	bcs1l
ENSDARG00000037	-0.4723499	0.00339716	cpb2
ENSDARG00000060	-0.4724234	0.00086746	TSFM
ENSDARG00000054	-0.4725319	0.00060034	nat10
ENSDARG00000003	-0.4726567	5.27E-05	rrs1
ENSDARG00000090	-0.4729426	4.84E-06	pla2g15
ENSDARG00000039	-0.4730759	2.52E-06	c8b
ENSDARG00000032	-0.4732188	0.00077102	tiprl
ENSDARG00000026	-0.4734157	4.79E-12	cotl1
ENSDARG00000079	-0.4738458	2.17E-06	SCARF2
ENSDARG00000053	-0.4749661	0.00027219	kazald3
ENSDARG00000044	-0.475009	0.00047349	pacs1
ENSDARG00000045	-0.4754541	0.00020588	phf5a
ENSDARG00000076	-0.4761575	0.00028514	BX004830.1
ENSDARG00000089	-0.4762493	0.0004502	TNFAIP6 (2 of 2)
ENSDARG00000075	-0.4771682	1.88E-06	cpz
ENSDARG00000031	-0.4776186	3.33E-10	podxl
ENSDARG00000052	-0.4786874	0.00117722	zgc:110789
ENSDARG00000044	-0.479716	0.00207693	CHST7
ENSDARG00000077	-0.4798456	3.35E-06	slc37a4b
ENSDARG00000001	-0.4799075	0.00431319	prkag2
ENSDARG00000076	-0.4804225	0.00271722	ftsj
ENSDARG00000070	-0.4804687	0.00056224	mettl14
ENSDARG00000073	-0.480582	1.01E-07	thbs2b
ENSDARG00000045	-0.4821424	0.00336866	pofut2
ENSDARG00000017	-0.4830673	1.47E-06	gdpd1
ENSDARG00000024	-0.4859946	0.00200064	ANGPTL2 (2 of 3)
ENSDARG00000078	-0.4863808	0.00010876	fam118b
ENSDARG00000012	-0.4871164	0.00016244	rnpep

ENSDARG00000026	-0.4875864	0.00033051	cdk2
ENSDARG00000042	-0.4877068	0.00104398	eef2a.1
ENSDARG00000055	-0.4878547	1.29E-09	asph
ENSDARG00000071	-0.4891761	0.00016749	lrrc59
ENSDARG00000095	-0.4893144	2.31E-10	si:dkey-261h17.1
ENSDARG00000075	-0.4893497	0.0001916	rpap1
ENSDARG00000012	-0.4901911	1.68E-08	c3a
ENSDARG00000073	-0.4906954	0.00120843	CPXM1 (2 of 2)
ENSDARG00000062	-0.490749	0.00027963	SLC12A7 (1 of 2)
ENSDARG00000060	-0.490868	1.54E-07	LIG1
ENSDARG00000055	-0.491393	0.000946	rel
ENSDARG00000037	-0.4914014	3.61E-09	cxcl12a
ENSDARG00000037	-0.4915696	3.58E-08	ssrp1a
ENSDARG00000030	-0.492017	0.00043147	zgc:110191
ENSDARG00000088	-0.49209	0.00068353	MFAP4 (8 of 13)
ENSDARG00000016	-0.4921762	1.02E-08	rbp1a
ENSDARG00000024	-0.4939048	0.00342625	bxdc2
ENSDARG00000069	-0.4942251	7.85E-06	elovl7a
ENSDARG00000071	-0.4950032	3.16E-05	ecm2
ENSDARG00000056	-0.4960442	1.40E-07	papss2b
ENSDARG00000006	-0.497557	1.74E-11	itgav
ENSDARG00000055	-0.4976263	6.24E-07	cmn
ENSDARG00000037	-0.4978182	1.19E-13	tubb5
ENSDARG00000044	-0.497898	0.00241351	bace2
ENSDARG00000038	-0.4994746	0.00230803	ykt6
ENSDARG00000045	-0.5001174	1.32E-08	tuba1
ENSDARG00000036	-0.5002628	0.00012209	zgc:101549
ENSDARG00000055	-0.500301	0.00067813	cdc16
ENSDARG00000007	-0.5019235	3.26E-13	pdia3
ENSDARG00000018	-0.5024838	0.00078624	heg
ENSDARG00000094	-0.5029704	0.00013188	si:dkey-125i10.3
ENSDARG00000076	-0.5032745	0.00221188	stab1l
ENSDARG00000013	-0.5042074	0.00287652	WFIKKN2 (1 of 2)
ENSDARG00000029	-0.5045978	0.0019816	phyhd1
ENSDARG00000009	-0.5068667	1.31E-10	txndc5
ENSDARG00000004	-0.5091753	9.21E-05	nabp1a
ENSDARG00000037	-0.5105786	1.09E-08	col9a3
ENSDARG00000051	-0.5111344	0.00419198	kcnj11
ENSDARG00000068	-0.5128946	3.38E-07	nid1a
ENSDARG00000087	-0.5129837	9.54E-06	si:ch211-11k18.4
ENSDARG00000045	-0.5133743	0.00018546	phb2

ENSDARG00000056	-0.5133975	4.12E-05	arr3a
ENSDARG00000093	-0.514091	0.00142324	crp4
ENSDARG00000010	-0.5146703	1.95E-07	fmodb
ENSDARG00000012	-0.5147827	1.45E-09	dcn
ENSDARG00000001	-0.5154836	7.09E-05	bysl
ENSDARG00000005	-0.5155255	0.00010822	gcat
ENSDARG00000070	-0.5156808	5.22E-05	PRKCD (1 of 2)
ENSDARG00000031	-0.5168889	0.00376721	flvcr1
ENSDARG00000018	-0.5186032	1.04E-06	rhot1a
ENSDARG00000042	-0.5194016	0.00059182	mapk12a
ENSDARG00000005	-0.5207399	3.44E-12	fkbp9
ENSDARG00000008	-0.5207739	1.03E-10	zgc:66479
ENSDARG00000069	-0.5207923	0.00405949	slc35f2
ENSDARG00000021	-0.5220568	4.30E-09	COL4A6
ENSDARG00000009	-0.5221419	7.86E-05	hlx1
ENSDARG00000051	-0.5232465	3.77E-07	stra6
ENSDARG00000057	-0.524323	0.00027348	lyz
ENSDARG00000030	-0.5244181	0.00030727	gnai3
ENSDARG00000074	-0.5248817	0.00076643	si:ch73-220n21.1
ENSDARG00000018	-0.526137	4.35E-05	msrb2
ENSDARG00000012	-0.5265087	0.00119216	zgc:109965
ENSDARG00000087	-0.5268629	3.54E-07	BX842614.2
ENSDARG00000057	-0.5276307	0.00184173	habp2
ENSDARG00000012	-0.5280077	2.49E-09	hcls1
ENSDARG00000017	-0.5283692	0.00015144	pdss1
ENSDARG00000091	-0.5284364	0.00312509	FBXO40 (2 of 2)
ENSDARG00000015	-0.5284728	0.00109118	SLC22A16
ENSDARG00000035	-0.5305348	0.00403093	ins
ENSDARG00000044	-0.5311116	0.00502539	cyp2x7
ENSDARG00000074	-0.5313841	0.00371645	tbl2
ENSDARG00000038	-0.5314545	6.72E-09	tefb
ENSDARG00000094	-0.5317635	0.00070927	si:ch211-255g12.6
ENSDARG00000056	-0.5320048	0.0001124	RAMP1
ENSDARG00000070	-0.5327907	3.66E-05	dnajc2
ENSDARG00000058	-0.5332848	1.97E-06	wfdc1
ENSDARG00000013	-0.5338422	0.00217644	mrpl11
ENSDARG00000040	-0.5354353	3.34E-08	mcm4
ENSDARG00000021	-0.5358222	2.26E-14	c5
ENSDARG00000061	-0.5359729	7.71E-09	srpr
ENSDARG00000091	-0.5369742	9.43E-07	BX088649.1
ENSDARG00000042	-0.5373865	0.0018711	fhl2a

ENSDARG00000017	-0.5385342	1.43E-05	g3bp1
ENSDARG00000070	-0.5392206	2.47E-09	sfrp2
ENSDARG00000011	-0.5394782	9.62E-05	fen1
ENSDARG00000036	-0.5417685	1.38E-10	si:ch211-114n24.6
ENSDARG00000032	-0.5432	0.00172348	macrod2
ENSDARG00000070	-0.5440289	0.00013136	UROC1
ENSDARG00000053	-0.5458699	2.84E-11	aldh1a2
ENSDARG00000032	-0.5465813	0.00021636	htra1a
ENSDARG00000038	-0.5491753	1.54E-07	FGFBP2 (1 of 2)
ENSDARG00000035	-0.5496578	1.11E-05	sdf2l1
ENSDARG00000039	-0.5501711	2.32E-08	drg1
ENSDARG00000016	-0.5502446	4.75E-08	agpat9
ENSDARG00000043	-0.5502523	3.08E-16	calr
ENSDARG00000078	-0.5516553	0.00010988	LIMD2
ENSDARG00000079	-0.5522612	0.00465456	zgc:103519
ENSDARG00000080	-0.5532824	0.00011398	tmem41b
ENSDARG00000088	-0.5537642	3.38E-11	and1
ENSDARG00000070	-0.55461	0.00019715	rbp2a
ENSDARG00000006	-0.5546635	2.64E-06	lta4h
ENSDARG00000038	-0.5550925	0.00094884	tmx3
ENSDARG00000086	-0.5551443	1.27E-06	apoea
ENSDARG00000025	-0.5569239	0.00019026	myo5ab
ENSDARG00000020	-0.5572246	5.26E-09	fga
ENSDARG00000014	-0.5578925	8.29E-06	osr1
ENSDARG00000040	-0.5587954	1.74E-06	mat2aa
ENSDARG00000076	-0.5604664	0.00298942	ddhd2
ENSDARG00000090	-0.5607312	1.16E-06	apof
ENSDARG00000086	-0.5611328	0.00285975	atad3b
ENSDARG00000009	-0.5612537	2.03E-07	pdip5
ENSDARG00000020	-0.5619471	4.58E-07	pck2
ENSDARG00000037	-0.5619523	2.15E-06	rcc1
ENSDARG00000005	-0.5621474	2.34E-05	ERGIC1
ENSDARG00000010	-0.5656449	1.04E-08	SLC12A2 (6 of 6)
ENSDARG00000002	-0.5664458	0.00106366	itga10
ENSDARG00000088	-0.5673908	0.00522377	exosc4
ENSDARG00000010	-0.568985	2.96E-07	fkbp7
ENSDARG00000071	-0.5696671	2.45E-11	lepre1
ENSDARG00000053	-0.5697684	2.14E-05	zgc:113054
ENSDARG00000055	-0.5701992	0.00049366	ACLY
ENSDARG00000054	-0.5705258	8.97E-06	sec13
ENSDARG00000008	-0.5727266	0.00237434	scara3

ENSDARG00000042	-0.5732976	8.13E-07	c7a
ENSDARG00000092	-0.5749511	7.45E-10	si:ch73-46j18.5
ENSDARG00000078	-0.5749699	1.98E-05	vcana
ENSDARG00000037	-0.5754319	5.57E-05	slc7a2
ENSDARG00000022	-0.5770832	4.24E-09	apobl
ENSDARG00000074	-0.5772595	5.39E-06	tgm2b
ENSDARG00000015	-0.5774621	1.19E-05	ca15a
ENSDARG00000027	-0.5783603	3.33E-05	elovl4b
ENSDARG00000021	-0.5785816	0.00442849	prph2l
ENSDARG00000010	-0.5793626	4.03E-07	sae1
ENSDARG00000009	-0.5795352	4.59E-13	vcanb
ENSDARG00000054	-0.5809257	0.00518086	PPP1R14C (2 of 2)
ENSDARG00000038	-0.5822642	3.02E-05	mrpl12
ENSDARG00000062	-0.5846655	3.47E-11	bcl2l13
ENSDARG00000051	-0.5862131	0.00036935	DNAJA4
ENSDARG00000045	-0.5875963	8.45E-08	apex1
ENSDARG00000071	-0.587706	9.16E-07	rgl3a
ENSDARG00000029	-0.5878074	0.00018535	pgp
ENSDARG00000028	-0.5903629	0.00021578	ahsa1
ENSDARG00000042	-0.590697	0.00336769	trmt6
ENSDARG00000063	-0.5921438	6.80E-06	chkb
ENSDARG00000056	-0.5969352	1.36E-10	itgb3a
ENSDARG00000089	-0.5972324	0.00024821	STC2 (2 of 2)
ENSDARG00000057	-0.5978574	4.16E-08	mcm6
ENSDARG00000033	-0.5989382	4.89E-08	rqcd1
ENSDARG00000020	-0.6007161	2.20E-16	calrl
ENSDARG00000017	-0.6024496	6.83E-05	alg6
ENSDARG00000040	-0.6027742	5.68E-08	itgbl1
ENSDARG00000005	-0.6042938	2.42E-08	gpib
ENSDARG00000002	-0.6046689	0.00010651	col4a4
ENSDARG00000094	-0.6061725	0.00185952	si:ch73-199e17.1
ENSDARG00000071	-0.606807	2.43E-05	tuft1b
ENSDARG00000078	-0.6068858	1.09E-08	itga8
ENSDARG00000087	-0.6076448	0.00136382	agxt2
ENSDARG00000007	-0.6079873	0.00569356	RUNDC3A (2 of 2)
ENSDARG00000078	-0.6092339	9.18E-09	fap
ENSDARG00000029	-0.6095992	1.36E-06	atp2a2a
ENSDARG00000036	-0.6099993	9.13E-11	KRT23 (3 of 15)
ENSDARG00000016	-0.6120379	7.55E-09	tfa
ENSDARG00000037	-0.6123123	7.95E-12	hm13
ENSDARG00000087	-0.614258	4.07E-05	CABZ01113191.1

ENSDARG00000086	-0.6143511	0.00517851	CR855307.2
ENSDARG00000039	-0.6162867	2.45E-07	sfrp5
ENSDARG00000040	-0.6169865	2.58E-07	si:dkey-95h12.1
ENSDARG00000002	-0.6182734	7.08E-06	a1cf
ENSDARG00000019	-0.6188998	0.00010633	mcm5
ENSDARG00000090	-0.6193087	0.00390822	WFDC8
ENSDARG00000088	-0.6199551	0.00076553	notum2
ENSDARG00000020	-0.6229731	6.53E-05	cldn11a
ENSDARG00000089	-0.6235135	5.98E-05	COL23A1 (2 of 2)
ENSDARG00000036	-0.6235474	0.00070425	cldn15a
ENSDARG00000037	-0.6245394	1.78E-13	rcn3
ENSDARG00000057	-0.6258671	9.32E-05	dnajc21
ENSDARG00000015	-0.6276238	9.58E-11	dnajb11
ENSDARG00000078	-0.6295077	0.00109527	PLA2G3 (2 of 2)
ENSDARG00000000	-0.6308777	1.50E-08	nr4a1
ENSDARG00000044	-0.632778	4.41E-10	si:ch211-243g18.2
ENSDARG00000015	-0.6336585	1.95E-07	mcm2
ENSDARG00000044	-0.6343653	8.89E-08	angptl3
ENSDARG00000044	-0.6344835	1.35E-07	KRT23 (9 of 15)
ENSDARG00000029	-0.6348336	2.62E-08	creld2
ENSDARG00000071	-0.6350402	2.63E-05	si:dkey-119m7.4
ENSDARG00000040	-0.6351727	0.00031854	CSGALNACT1 (1 of 2)
ENSDARG00000058	-0.636163	1.16E-11	krt5
ENSDARG00000069	-0.6369011	1.67E-06	lman1
ENSDARG00000092	-0.6381576	1.10E-09	apoc2
ENSDARG00000036	-0.639264	1.83E-05	pitpnb
ENSDARG00000069	-0.642259	7.96E-08	tim10
ENSDARG00000043	-0.6427716	0.00078022	RBBP8
ENSDARG00000038	-0.6435061	0.00096551	lgals2b
ENSDARG00000062	-0.6482088	4.06E-11	gpnmb
ENSDARG00000021	-0.6493345	3.99E-07	PRODH2
ENSDARG00000062	-0.6498053	0.00102037	otc
ENSDARG00000002	-0.6500041	1.20E-09	adss
ENSDARG00000055	-0.6536218	8.63E-08	hic1
ENSDARG00000012	-0.6549574	5.14E-07	HPGD
ENSDARG00000091	-0.6559805	1.10E-05	-
ENSDARG00000018	-0.6562675	1.41E-05	dgat2
ENSDARG00000007	-0.6578217	0.00154566	pbk
ENSDARG00000036	-0.6581903	0.0005721	has2
ENSDARG00000074	-0.6583596	8.06E-12	col6a1
ENSDARG00000057	-0.6586456	0.00063299	CR925772.2

ENSDARG00000079	-0.6590218	2.39E-06	E2F2
ENSDARG00000077	-0.6592632	1.05E-05	CR626907.1
ENSDARG00000091	-0.6610111	6.35E-05	si:dkey-17e16.17
ENSDARG00000020	-0.6622561	0.0002395	slc20a1a
ENSDARG00000041	-0.6634648	0.00112428	zgc:113337
ENSDARG00000079	-0.6637817	1.45E-05	utp18
ENSDARG00000015	-0.6663571	7.55E-07	klf3
ENSDARG00000001	-0.6667299	3.78E-06	myhb
ENSDARG00000014	-0.6669984	1.56E-12	anxa1b
ENSDARG00000013	-0.6678875	0.00101688	crispld1b
ENSDARG00000087	-0.6687354	0.00014334	mob1a
ENSDARG00000038	-0.668877	8.66E-05	myl9a
ENSDARG00000069	-0.6695943	1.57E-15	col17a1a
ENSDARG00000079	-0.6706927	0.00258962	dpys
ENSDARG00000088	-0.6723235	0.00219858	NGFR (3 of 3)
ENSDARG00000016	-0.6728439	0.00032825	-
ENSDARG00000011	-0.6742236	1.26E-07	MREG
ENSDARG00000075	-0.6778237	0.00311895	CU896655.3
ENSDARG00000016	-0.6786453	0.00509211	cldn15la
ENSDARG00000075	-0.6798773	2.03E-17	APOB (3 of 3)
ENSDARG00000014	-0.6807441	0.00011737	pkd2
ENSDARG00000069	-0.6819147	5.84E-06	metap2a
ENSDARG00000069	-0.6852167	0.00385542	imp3
ENSDARG00000060	-0.6864285	2.82E-06	pfkmb
ENSDARG00000029	-0.687157	0.00525431	-
ENSDARG00000055	-0.6878899	0.00503722	c1qtnf6a
ENSDARG00000068	-0.6885565	0.00142272	sostdc1a
ENSDARG00000061	-0.6906031	0.00296561	zgc:153409
ENSDARG00000052	-0.6915842	6.91E-06	rcvrna
ENSDARG00000044	-0.6937345	2.11E-06	sc5dl
ENSDARG00000058	-0.6964135	0.00129018	ddr2b
ENSDARG00000077	-0.6997024	0.00553502	dkk3a
ENSDARG00000043	-0.7000166	0.001671	abcg2a
ENSDARG00000056	-0.7041399	0.00037396	cfhl2
ENSDARG00000056	-0.707384	0.00157777	kitb
ENSDARG00000055	-0.708856	6.57E-07	zgc:110377
ENSDARG00000062	-0.7089495	0.00365002	tmem168b
ENSDARG00000004	-0.7099734	0.00119197	hdr
ENSDARG00000069	-0.710182	2.40E-05	CKMT2 (1 of 2)
ENSDARG00000024	-0.7103875	6.44E-09	ITIH4
ENSDARG00000005	-0.7115944	1.14E-05	zgc:158328

ENSDARG00000076	-0.715692	1.32E-07	ptprb
ENSDARG00000001	-0.7179695	0.00345852	CABZ01043017.1
ENSDARG00000063	-0.7184017	2.00E-09	manf
ENSDARG00000051	-0.7191473	0.00019927	HPX (1 of 2)
ENSDARG00000062	-0.7210543	8.90E-05	ITGA2 (1 of 2)
ENSDARG00000069	-0.7216961	9.74E-09	PROCA1
ENSDARG00000071	-0.7248131	7.00E-07	pik3r3a
ENSDARG00000051	-0.7251696	0.00031621	AHCYL2 (2 of 2)
ENSDARG00000035	-0.7257667	2.22E-06	pltp
ENSDARG00000069	-0.727972	2.08E-10	serpinf1
ENSDARG00000019	-0.7286042	1.22E-05	tpm4b
ENSDARG00000069	-0.7292084	1.48E-07	prmt6
ENSDARG00000052	-0.7296559	1.54E-05	caspb
ENSDARG00000018	-0.7310011	1.42E-08	ADK (2 of 2)
ENSDARG00000034	-0.7323518	0.0029551	prkcq
ENSDARG00000057	-0.734417	7.08E-06	hells
ENSDARG00000012	-0.7345005	8.87E-09	fbp2
ENSDARG00000035	-0.7348821	4.74E-12	sat1a
ENSDARG00000055	-0.7353732	1.07E-19	cfb
ENSDARG00000095	-0.7355371	0.00283453	FDXACB1
ENSDARG00000045	-0.7364032	1.81E-06	aqp8a.1
ENSDARG00000077	-0.7390395	7.21E-05	cx44.2
ENSDARG00000044	-0.7403018	3.59E-05	opn1lw2
ENSDARG00000073	-0.7408066	0.00013918	pdzrn3a
ENSDARG00000007	-0.7415588	1.22E-06	cnp2
ENSDARG00000090	-0.7428846	4.07E-11	PPP1R3A (2 of 2)
ENSDARG00000042	-0.7444011	2.32E-05	ltk
ENSDARG00000038	-0.7448149	1.15E-07	sagb
ENSDARG00000042	-0.7450052	1.12E-06	cyp51
ENSDARG00000035	-0.7451331	1.33E-14	acana
ENSDARG00000052	-0.7462476	4.26E-06	tnmd
ENSDARG00000010	-0.7506301	0.00088267	abcb4
ENSDARG00000004	-0.7544327	0.00171502	zgc:122979
ENSDARG00000036	-0.7547303	3.50E-07	rnasel3
ENSDARG00000090	-0.7550851	5.65E-06	MCM3 (2 of 2)
ENSDARG00000088	-0.7555898	0.00258541	gstm3
ENSDARG00000018	-0.7590364	2.84E-05	mthfd1a
ENSDARG00000002	-0.7607153	2.76E-05	stk25a
ENSDARG00000052	-0.7608073	3.38E-05	hmgcra
ENSDARG00000013	-0.7624658	5.77E-12	hyou1
ENSDARG00000033	-0.7644439	2.39E-14	desi1a

ENSDARG00000007	-0.7658272	5.46E-10	odc1
ENSDARG00000070	-0.7665822	3.74E-05	si:dkey-32e6.6
ENSDARG00000011	-0.7684967	2.88E-05	zgc:64106
ENSDARG00000058	-0.7687592	0.00093854	cdx1b
ENSDARG00000037	-0.769554	0.00197716	sox8
ENSDARG00000052	-0.770162	7.49E-15	igfbp2a
ENSDARG00000041	-0.7739645	2.14E-06	MMADHC (2 of 2)
ENSDARG00000004	-0.774655	3.18E-14	hspa5
ENSDARG00000073	-0.776313	1.87E-14	mrc1a
ENSDARG00000056	-0.7771132	1.95E-15	kerA
ENSDARG00000029	-0.7800482	1.60E-16	TYRP1 (2 of 2)
ENSDARG00000027	-0.7846106	2.05E-11	PAPLN (1 of 2)
ENSDARG00000039	-0.7851691	1.79E-06	atp1a1a.3
ENSDARG00000019	-0.7862787	0.00329662	fads2
ENSDARG00000071	-0.7863864	8.11E-05	AGL (3 of 3)
ENSDARG00000057	-0.7870654	8.65E-13	pnp4a
ENSDARG00000077	-0.7925615	6.41E-08	cdca7a
ENSDARG00000062	-0.7942749	1.40E-05	lcat
ENSDARG00000059	-0.7957325	0.00250857	pdk2
ENSDARG00000062	-0.7960079	0.00525108	CADM2 (1 of 2)
ENSDARG00000045	-0.7983258	5.91E-07	mybpc1
ENSDARG00000059	-0.7999474	0.0006864	soat2
ENSDARG00000030	-0.8009196	7.96E-05	slc22a2
ENSDARG00000042	-0.801859	0.00030486	foxl2
ENSDARG00000092	-0.8045839	6.64E-05	si:dkey-6111.4
ENSDARG00000031	-0.8060639	1.19E-06	hsd20b2
ENSDARG00000086	-0.8066304	5.81E-05	cald1
ENSDARG00000036	-0.8075505	0.00106725	anks4b
ENSDARG00000009	-0.810597	3.85E-05	myh11a
ENSDARG00000043	-0.8115541	0.00078895	TBL2 (2 of 2)
ENSDARG00000056	-0.8142554	0.00272467	per1a
ENSDARG00000004	-0.8158007	1.53E-07	zgc:77375
ENSDARG00000007	-0.8194303	6.69E-06	hspbp1
ENSDARG00000052	-0.8198709	7.69E-13	hmgcs1
ENSDARG00000041	-0.8219679	2.01E-07	dnajc3
ENSDARG00000001	-0.8230029	1.69E-13	hsd11b2
ENSDARG00000018	-0.8242094	8.12E-18	pdia4
ENSDARG00000016	-0.8267392	5.73E-10	mmp11b
ENSDARG00000089	-0.8325336	6.66E-06	slc16a12b
ENSDARG00000095	-0.8332167	0.00516131	CABZ01079179.1
ENSDARG00000055	-0.8373967	1.96E-18	zgc:136930

ENSDARG00000029	-0.8383102	3.25E-21	pfkfb4l
ENSDARG00000003	-0.841667	1.52E-12	nr1d2a
ENSDARG00000003	-0.8423646	1.10E-17	hsp90b1
ENSDARG00000052	-0.843202	0.00167733	agxta
ENSDARG00000090	-0.8446307	6.59E-23	CABZ01074130.1
ENSDARG00000033	-0.8474103	6.00E-05	ADAMTS15 (2 of 2)
ENSDARG00000014	-0.8476601	3.44E-40	ca2
ENSDARG00000076	-0.8482914	1.92E-06	haao
ENSDARG00000016	-0.8508831	1.83E-16	aglb
ENSDARG00000060	-0.8571873	8.79E-10	apod
ENSDARG00000073	-0.8628887	1.83E-17	-
ENSDARG00000079	-0.8692232	1.03E-10	zgc:86725
ENSDARG00000080	-0.8722984	0.00103851	dre-mir-124-5
ENSDARG00000078	-0.8746976	0.00149422	OGFOD3
ENSDARG00000060	-0.8766699	6.58E-05	lhpp
ENSDARG00000054	-0.8799169	0.00200264	SMOC2 (2 of 2)
ENSDARG00000053	-0.8847764	8.74E-19	slc13a2
ENSDARG00000011	-0.8878844	5.71E-05	trpm1a
ENSDARG00000056	-0.8900813	0.00392343	irf8
ENSDARG00000018	-0.8901042	2.47E-06	hpda
ENSDARG00000058	-0.8948667	6.01E-05	zgc:158846
ENSDARG00000058	-0.8952662	0.00088187	OTOL1 (2 of 2)
ENSDARG00000007	-0.8987093	0.00264389	pdcd2
ENSDARG00000069	-0.8997718	2.08E-08	crygm2d11
ENSDARG00000070	-0.9002495	1.41E-08	prelp
ENSDARG00000076	-0.9023145	1.15E-06	CABZ01102039.1
ENSDARG00000042	-0.9030524	0.00185313	nphs2
ENSDARG00000008	-0.9069737	5.06E-05	camk1gb
ENSDARG00000091	-0.9096518	0.00117749	EMILIN2 (2 of 2)
ENSDARG00000084	-0.9125932	0.00287809	SNORA31
ENSDARG00000074	-0.9131854	0.00551745	-
ENSDARG00000041	-0.9176844	0.00028235	ces3
ENSDARG00000023	-0.9183116	0.00044173	lcp1
ENSDARG00000039	-0.9191457	0.00031122	il13ra2
ENSDARG00000061	-0.921038	5.59E-14	oca2
ENSDARG00000055	-0.9373964	1.15E-17	cxcl12b
ENSDARG00000095	-0.9379388	0.00353987	si:dkey-257h21.1
ENSDARG00000053	-0.9383947	0.00044003	sult2st2
ENSDARG00000071	-0.9412342	0.00287915	lama3
ENSDARG00000052	-0.9414589	1.61E-08	im:7154842
ENSDARG00000061	-0.9441008	0.00119123	SLC25A17

ENSDARG00000034	-0.9500863	0.00027342	UNC119 (2 of 2)
ENSDARG00000039	-0.9545999	1.72E-12	CABZ01076094.1
ENSDARG00000042	-0.9556392	1.62E-29	APOB (1 of 3)
ENSDARG00000010	-0.9639441	5.65E-10	hsp90aa1.1
ENSDARG00000026	-0.9652103	3.77E-06	tmem41ab
ENSDARG00000052	-0.96626	0.00098575	si:ch211-106n13.3
ENSDARG00000022	-0.9739842	0.00244124	GOLT1B (2 of 2)
ENSDARG00000090	-0.9740967	1.78E-25	KRT23 (12 of 15)
ENSDARG00000070	-0.9763246	0.0010177	etnk2
ENSDARG00000038	-0.9783223	4.10E-12	abcf2a
ENSDARG00000035	-0.9784607	0.0038488	tmem167a
ENSDARG00000045	-0.9792264	7.39E-06	acta2
ENSDARG00000003	-0.9807639	1.76E-05	fhl2b
ENSDARG00000037	-0.9822058	2.55E-09	fkbp11
ENSDARG00000055	-0.9849744	0.00021705	mylk4
ENSDARG00000091	-0.9850831	1.63E-16	MYLK4 (1 of 2)
ENSDARG00000069	-0.9904315	1.35E-05	ARID5A (2 of 2)
ENSDARG00000007	-0.9952407	3.20E-14	rpe65a
ENSDARG00000056	-0.9956168	0.00320671	sostdc1b
ENSDARG00000018	-0.998931	0.00014846	TK1 (2 of 2)
ENSDARG00000055	-0.9996585	1.08E-22	BX470254.2
ENSDARG00000043	-1.0057987	2.17E-09	postna
ENSDARG00000087	-1.0076996	2.63E-14	si:ch73-96b22.1
ENSDARG00000045	-1.0123982	0.00049332	opn1sw1
ENSDARG00000039	-1.0155722	0.00077293	rspo1
ENSDARG00000036	-1.0171129	5.28E-18	krt15
ENSDARG00000001	-1.0244538	0.00026869	slc2a1a
ENSDARG00000077	-1.0253362	0.00016836	hspb6
ENSDARG00000011	-1.0254125	0.00028288	foxn1
ENSDARG00000030	-1.0285807	4.42E-07	matn1
ENSDARG00000069	-1.0305527	0.00491118	tmem179b
ENSDARG00000075	-1.0310828	4.31E-14	defbl1
ENSDARG00000039	-1.0345712	9.45E-16	mat1a
ENSDARG00000015	-1.0403749	3.08E-09	f8
ENSDARG00000007	-1.0475792	3.17E-06	si:ch211-196i2.2
ENSDARG00000093	-1.0490666	5.61E-09	si:dkeyp-106c3.3
ENSDARG00000093	-1.0538204	6.99E-34	rbp2b
ENSDARG00000090	-1.05629	4.88E-11	CR392352.1
ENSDARG00000037	-1.0656496	7.56E-09	lrata
ENSDARG00000062	-1.0823319	4.13E-05	hhipl1
ENSDARG00000006	-1.0928414	0.00089181	kcnmb2

ENSDARG00000005	-1.0985773	0.0019986	gdf6b
ENSDARG00000054	-1.1018196	1.66E-20	col10a1
ENSDARG00000001	-1.1200557	4.33E-14	tnxb
ENSDARG00000057	-1.1203264	6.48E-09	enpep
ENSDARG00000038	-1.1282836	1.06E-08	mrc1b
ENSDARG00000055	-1.12839	9.80E-06	mylipb
ENSDARG00000045	-1.1308321	1.67E-10	rlbp1b
ENSDARG00000091	-1.1400589	0.00302856	ANPEP (1 of 5)
ENSDARG00000093	-1.1431913	6.14E-07	si:ch211-89o9.4
ENSDARG00000095	-1.1682121	1.91E-62	si:dkey-9l20.3
ENSDARG00000069	-1.1756118	5.23E-11	phkg1b
ENSDARG00000091	-1.1771384	0.00278581	CAMKMT (1 of 2)
ENSDARG00000043	-1.1786992	2.47E-13	C3 (2 of 6)
ENSDARG00000092	-1.1826064	0.00182518	si:dkey-58f10.12
ENSDARG00000038	-1.1994834	4.00E-21	C4A
ENSDARG00000087	-1.2012013	0.00043527	CR385054.2
ENSDARG00000035	-1.2028428	7.06E-23	entpd3
ENSDARG00000068	-1.2095409	0.0001846	SOX8 (2 of 2)
ENSDARG00000053	-1.2099334	0.00350616	csf1rb
ENSDARG00000056	-1.2169576	4.34E-06	si:dkey-98p3.7
ENSDARG00000059	-1.2278491	0.00453657	oaz2b
ENSDARG00000060	-1.2361697	2.46E-06	im:6903943
ENSDARG00000016	-1.244122	8.28E-30	agt
ENSDARG00000040	-1.244314	9.18E-06	lgals3bpb
ENSDARG00000006	-1.2486879	4.13E-07	star
ENSDARG00000076	-1.2661805	5.45E-08	abhd5
ENSDARG00000017	-1.2662911	0.00377186	opn1sw2
ENSDARG00000078	-1.2702289	0.00020193	zgc:175280
ENSDARG00000009	-1.2730356	1.43E-37	rhbg
ENSDARG00000029	-1.275077	2.64E-08	zdhhc23a
ENSDARG00000095	-1.2766578	1.34E-11	si:dkeyp-106c3.1
ENSDARG00000053	-1.3069499	7.22E-06	angpt2
ENSDARG00000026	-1.3294943	2.56E-08	HEPHL1 (2 of 4)
ENSDARG00000079	-1.3345067	9.04E-36	and2
ENSDARG00000087	-1.3367066	0.0051835	-
ENSDARG00000054	-1.3405543	3.72E-09	slco2b1
ENSDARG00000094	-1.340898	0.00025717	si:dkey-91f15.1
ENSDARG00000076	-1.3543791	8.27E-21	ankrd1b
ENSDARG00000010	-1.3682713	0.00062317	HTRA3
ENSDARG00000058	-1.3736829	8.15E-08	SBK2
ENSDARG00000057	-1.3825581	4.61E-05	zgc:172086

ENSDARG00000039	-1.3831683	0.00201389	st6galnac5a
ENSDARG00000041	-1.3876251	5.10E-06	BX663520.1
ENSDARG00000032	-1.399307	4.90E-07	ugt5g1
ENSDARG00000062	-1.439101	3.00E-07	cyp4v8
ENSDARG00000090	-1.4642647	0.00218492	SGCG (1 of 2)
ENSDARG00000039	-1.467139	1.21E-07	cdf1
ENSDARG00000092	-1.4807507	3.44E-08	si:dkey-22i16.3
ENSDARG00000041	-1.504956	0.00358756	cx28.9
ENSDARG00000003	-1.5115208	0.00448366	lox
ENSDARG00000088	-1.5368236	4.92E-18	wu:fa03e10
ENSDARG00000088	-1.5489102	0.0031121	OTOS
ENSDARG00000089	-1.5518015	0.0027336	gc
ENSDARG00000052	-1.5972622	1.64E-23	thbs4a
ENSDARG00000095	-1.5978834	0.00047733	si:dkey-189h5.6
ENSDARG00000087	-1.6034975	1.12E-09	CABZ01059415.2
ENSDARG00000033	-1.6138798	1.72E-09	zgc:64189
ENSDARG00000040	-1.6206449	1.84E-09	vil1l
ENSDARG00000079	-1.6415925	6.92E-15	SLC46A3 (1 of 2)
ENSDARG00000067	-1.6513932	7.24E-05	prpf4
ENSDARG00000058	-1.6749452	1.32E-05	KRT18 (3 of 3)
ENSDARG00000030	-1.6871172	3.81E-09	phkg1a
ENSDARG00000069	-1.6911113	6.29E-07	gls2
ENSDARG00000052	-1.7047573	9.22E-38	c3c
ENSDARG00000002	-1.7095785	8.55E-32	fabp11b
ENSDARG00000031	-1.7190596	5.11E-66	mb
ENSDARG00000069	-1.7372703	0.00114857	si:rp71-68n21.10
ENSDARG00000035	-1.7691502	7.19E-31	agxt2l1
ENSDARG00000011	-1.7718753	0.00086572	ugt2b3
ENSDARG00000070	-1.7821698	5.69E-05	zgc:112242
ENSDARG00000094	-1.789794	0.00010441	si:dkey-8k3.1
ENSDARG00000069	-1.7919569	7.03E-05	elnb
ENSDARG00000042	-1.857079	1.34E-09	zgc:103681
ENSDARG00000018	-1.8760132	8.14E-06	agxtb
ENSDARG00000056	-1.9185028	1.46E-06	cyp2r1
ENSDARG00000056	-1.9802573	7.44E-15	rgs2
ENSDARG00000029	-2.0203274	2.39E-07	pnp4b
ENSDARG00000069	-2.0504264	0.00236466	P2RY12
ENSDARG00000071	-2.085913	2.44E-14	slc12a10.2
ENSDARG00000038	-2.1266829	0.00240903	cyp2k19
ENSDARG00000014	-2.1327645	3.63E-07	epd
ENSDARG00000092	-2.2610864	0.0003543	si:ch1073-309n14.1

ENSDARG00000087	-2.3158082	4.42E-13	c3b
ENSDARG00000028	-2.3318162	5.57E-07	si:ch211-173n18.3
ENSDARG00000075	-2.337136	0.001488	bicc2
ENSDARG00000041	-2.4108263	2.84E-06	cx32.3
ENSDARG00000007	-2.5447301	6.69E-21	uox
ENSDARG00000068	-2.7416148	4.42E-06	gck
ENSDARG00000094	-2.8262181	0.00013365	si:dkey-201c13.2
ENSDARG00000030	-3.037804	3.88E-16	PHKA1 (1 of 2)
ENSDARG00000068	-3.1653791	2.92E-22	klf9
ENSDARG00000088	-3.3757883	1.87E-29	ponzr3
ENSDARG00000003	-3.5868032	9.17E-10	rhcga
ENSDARG00000087	-4.0682499	3.27E-44	ponzr4
ENSDARG00000028	-4.1165788	5.48E-22	fkbp5
ENSDARG00000090	-6.3429783	8.39E-07	zgc:123103
ENSDARG00000086	-7.6882939	5.60E-06	si:dkey-92c21.3
ENSDARG00000090	-8.4199388	2.19E-08	BX296557.5

Table S4:

Comparison of qRT-PCR and RNA-seq log₂ fold change values of genes differentially induced by OPAHs.

Ensembl ID	logFC	PValue	ZF.gene
ENSDARG000	5.17111784	0.00079475	ostf1
ENSDARG000	3.96229569	0.00069959	zgc:173962
ENSDARG000	2.7291318	8.38E-08	isg15
ENSDARG000	2.66736509	2.42E-06	si:dkey-204l11.1
ENSDARG000	2.48443069	2.46E-06	sult2st1
ENSDARG000	2.47943796	0.00177338	lepa
ENSDARG000	2.2277461	5.72E-05	WIPI1 (2 of 2)
ENSDARG000	2.19386285	0.0015607	RNaseP_nuc
ENSDARG000	2.16937126	0.00087785	WFIKKN1
ENSDARG000	2.06513975	2.99E-05	pth1a
ENSDARG000	2.0531955	0.00017367	si:rp71-80o10.4
ENSDARG000	2.02152505	0.00062749	KCNJ1 (3 of 7)
ENSDARG000	1.98831036	0.0002134	cyp24a1
ENSDARG000	1.91629461	0.00220457	si:ch211-202h22.7
ENSDARG000	1.87754875	7.04E-07	si:dkeyp-34c12.1
ENSDARG000	1.85710465	1.59E-36	igfbp1a
ENSDARG000	1.83309119	9.27E-40	cyp1a
ENSDARG000	1.81430269	1.84E-05	CABZ01074899.1
ENSDARG000	1.76277206	0.00063004	cxcl-c1c
ENSDARG000	1.69132542	6.94E-09	DHRS13 (2 of 5)
ENSDARG000	1.66932536	6.27E-37	CABZ01041812.1
ENSDARG000	1.64236124	2.15E-23	CABZ01067657.1
ENSDARG000	1.59902289	1.72E-21	nr0b2a
ENSDARG000	1.58593279	3.38E-08	ctsl.1
ENSDARG000	1.57658977	0.00150122	slc25a38a
ENSDARG000	1.54242614	7.24E-23	zgc:162608
ENSDARG000	1.53936323	0.00010918	fosl1a
ENSDARG000	1.52178576	0.00062999	fabp1b.2
ENSDARG000	1.50351779	0.00313261	metap2b
ENSDARG000	1.48510772	1.26E-08	tcap
ENSDARG000	1.48460504	2.04E-08	cbx7a
ENSDARG000	1.46918533	1.04E-20	zgc:198419
ENSDARG000	1.45984516	0.00098865	NLRC5
ENSDARG000	1.44163132	2.71E-10	aasdh
ENSDARG000	1.4402753	0.00027959	si:dkey-78a14.5
ENSDARG000	1.41316625	4.48E-07	CU896645.1
ENSDARG000	1.39693007	0.00233691	gstp2
ENSDARG000	1.39387476	3.81E-12	CABZ01045617.2
ENSDARG000	1.38683535	4.16E-39	gsr
ENSDARG000	1.36709155	0.00243008	CSMD3 (4 of 4)

ENSDARG000	1.35997183	5.55E-09	sesn2
ENSDARG000	1.34176061	3.93E-12	CYLC2
ENSDARG000	1.3255454	0.00146353	si:ch211-259i2.2
ENSDARG000	1.30432552	9.56E-06	OLFM4 (2 of 2)
ENSDARG000	1.30356004	2.40E-06	tmprss13a
ENSDARG000	1.29238713	2.48E-41	gstp1
ENSDARG000	1.27801713	0.0012125	nr1h5
ENSDARG000	1.27780955	6.56E-07	ctssb.1
ENSDARG000	1.2693722	3.42E-25	zgc:158614
ENSDARG000	1.26264439	4.24E-54	slc43a2b
ENSDARG000	1.26151531	4.40E-05	zgc:194125
ENSDARG000	1.25980896	0.0003425	si:ch1073-464p5.5
ENSDARG000	1.25287356	6.25E-11	ethe1
ENSDARG000	1.25265577	1.87E-13	mat2ab
ENSDARG000	1.25090716	0.0028773	CABZ01088508.1
ENSDARG000	1.24962517	2.35E-30	prdx1
ENSDARG000	1.2445724	0.00261355	si:ch211-14a17.10
ENSDARG000	1.23969769	2.30E-11	atf3
ENSDARG000	1.23842902	3.61E-34	cbr1l
ENSDARG000	1.23699605	0.00313673	si:ch211-214p16.2
ENSDARG000	1.2328366	1.85E-06	SI
ENSDARG000	1.22542517	0.00011937	si:ch211-267e7.2
ENSDARG000	1.22502633	6.55E-09	si:dkey-3d18.4
ENSDARG000	1.22090015	1.12E-11	cxcr4a
ENSDARG000	1.21324096	0.00111157	CABZ01030107.1
ENSDARG000	1.20958185	0.00324282	irf1b
ENSDARG000	1.20576061	0.00018736	KCNJ1 (7 of 7)
ENSDARG000	1.20406735	0.00064261	si:ch211-244b2.4
ENSDARG000	1.20276001	9.88E-07	METTLL21C (1 of 2)
ENSDARG000	1.19701007	4.43E-06	il4r
ENSDARG000	1.19598974	0.00021566	zgc:194659
ENSDARG000	1.19262124	2.00E-15	si:dkeyp-1h4.9
ENSDARG000	1.19210004	3.28E-21	SDR42E2
ENSDARG000	1.18862332	0.00140309	sult1st5
ENSDARG000	1.15058469	7.17E-31	cyp1c1
ENSDARG000	1.14223971	4.11E-24	isca1
ENSDARG000	1.1362582	3.88E-05	si:dkey-169i5.4
ENSDARG000	1.12318842	9.88E-05	si:ch211-202h22.8
ENSDARG000	1.12271913	5.32E-05	HYAL2 (1 of 3)
ENSDARG000	1.12230219	1.28E-05	5_8S_rRNA
ENSDARG000	1.11385153	0.00146262	pik3r5

ENSDARG000	1.10750778	4.29E-11	cetp
ENSDARG000	1.10627979	2.52E-05	hsp70.1
ENSDARG000	1.10327803	1.63E-05	C18H15orf48
ENSDARG000	1.09719079	3.30E-07	pvalb7
ENSDARG000	1.09297411	1.32E-05	ESM1
ENSDARG000	1.08561066	0.00118302	mhc1uba
ENSDARG000	1.08190107	0.00051082	cyr61l1
ENSDARG000	1.0785493	5.00E-06	bbc3
ENSDARG000	1.06921042	0.00148325	cplx4c
ENSDARG000	1.06686756	0.00039539	OLFM4 (1 of 2)
ENSDARG000	1.06568029	5.65E-07	TPMT (1 of 2)
ENSDARG000	1.06247544	0.00188934	si:ch73-18b11.2
ENSDARG000	1.05293667	7.15E-15	pmt
ENSDARG000	1.04986762	2.26E-17	slc1a4
ENSDARG000	1.04611349	1.46E-05	si:ch211-13o20.3
ENSDARG000	1.03187702	0.00011961	MMEL1
ENSDARG000	1.02843387	0.00038378	dhrs13l1
ENSDARG000	1.0248409	0.00214082	dkk1a
ENSDARG000	1.0222015	6.72E-19	CREM
ENSDARG000	1.01996666	7.04E-18	pir
ENSDARG000	1.01747162	1.18E-05	si:dkey-147f3.5
ENSDARG000	1.00993641	0.00253253	SNORA57
ENSDARG000	1.00942626	3.32E-06	b2m
ENSDARG000	1.00894549	1.08E-16	arg2
ENSDARG000	0.9908354	0.00369913	fos
ENSDARG000	0.98815258	9.77E-07	apeh
ENSDARG000	0.98264657	4.78E-13	stc2a
ENSDARG000	0.98055694	1.41E-10	si:ch211-225b11.1
ENSDARG000	0.97518401	7.93E-08	zgc:173594
ENSDARG000	0.97518238	1.14E-06	micall2a
ENSDARG000	0.97001768	7.13E-05	hsp70.3
ENSDARG000	0.96114103	6.38E-07	TCIRG1 (1 of 3)
ENSDARG000	0.94674916	0.00082009	mmp13a
ENSDARG000	0.9418889	1.27E-06	adm2a
ENSDARG000	0.93985967	4.34E-07	hsp70l
ENSDARG000	0.93760484	1.85E-19	CR407583.2
ENSDARG000	0.93569695	3.21E-06	stc1l
ENSDARG000	0.92885048	9.66E-05	slc25a47a
ENSDARG000	0.92829512	6.10E-10	RASIP1
ENSDARG000	0.92078143	3.69E-06	irf9
ENSDARG000	0.91356463	6.12E-09	NCOA7 (2 of 2)

ENSDARG000	0.91311476	0.00256579	PLXND1 (1 of 2)
ENSDARG000	0.90294473	1.23E-14	mknk2a
ENSDARG000	0.90085071	4.65E-05	cdkn1a
ENSDARG000	0.89861536	8.05E-20	mvp
ENSDARG000	0.89577215	1.52E-11	cyp2aa9
ENSDARG000	0.88452707	0.00194062	UHRF2 (2 of 3)
ENSDARG000	0.88452188	0.00073955	chrng
ENSDARG000	0.88299525	1.38E-14	sult6b1
ENSDARG000	0.8824638	0.0002387	tm4sf18
ENSDARG000	0.87137827	6.34E-14	slc7a3a
ENSDARG000	0.87110214	4.09E-07	epdl1
ENSDARG000	0.87069242	1.54E-06	zgc:109934
ENSDARG000	0.87016059	1.08E-11	ctsl1a
ENSDARG000	0.86755951	3.48E-09	ATF5 (2 of 2)
ENSDARG000	0.86649822	2.65E-12	TIFA
ENSDARG000	0.85956411	1.36E-06	arpp21
ENSDARG000	0.85944751	3.00E-09	TSTD1
ENSDARG000	0.8541723	6.06E-07	brf1a
ENSDARG000	0.84859399	2.51E-19	DUSP27
ENSDARG000	0.84580427	3.64E-07	slc16a12a
ENSDARG000	0.84001472	3.91E-06	pnp5b
ENSDARG000	0.83328331	7.62E-17	sqstm1
ENSDARG000	0.8332544	0.00043854	adamts8a
ENSDARG000	0.83287964	0.00040838	CREB3L3 (2 of 2)
ENSDARG000	0.83285236	1.10E-05	onecut3
ENSDARG000	0.82786308	9.07E-05	lxn
ENSDARG000	0.82677961	6.93E-05	RPS27L
ENSDARG000	0.82599189	1.85E-13	rasd1
ENSDARG000	0.82547331	2.57E-06	cmb1
ENSDARG000	0.82534106	0.00145586	TPMT (2 of 2)
ENSDARG000	0.82462397	1.31E-06	ptgs1
ENSDARG000	0.8232175	2.89E-25	paics
ENSDARG000	0.82296683	9.75E-22	zgc:92066
ENSDARG000	0.82226281	6.12E-18	h1fx
ENSDARG000	0.82053127	2.45E-08	si:ch73-21g5.7
ENSDARG000	0.81563224	2.43E-06	cyp1c2
ENSDARG000	0.81302667	0.00362419	aqp7
ENSDARG000	0.81288026	8.66E-05	tg
ENSDARG000	0.80835048	1.29E-16	cebpb
ENSDARG000	0.80337446	0.00061881	METTL24
ENSDARG000	0.80237285	0.00298573	zgc:110712

ENSDARG000	0.80141518	0.00347507	nkx6.3
ENSDARG000	0.79813225	9.52E-06	zgc:174164
ENSDARG000	0.79635807	4.24E-09	ugt1ab
ENSDARG000	0.79141355	0.00029123	g6pca.1
ENSDARG000	0.7894936	0.00113908	galk2
ENSDARG000	0.78685764	0.00147831	dusp5
ENSDARG000	0.78481668	1.33E-16	hagh
ENSDARG000	0.78415963	0.00057142	C7 (1 of 2)
ENSDARG000	0.78212227	8.41E-08	sepw2b
ENSDARG000	0.78030793	0.00051695	serpine1
ENSDARG000	0.77747826	4.11E-07	gcgb
ENSDARG000	0.77590551	0.00187326	si:ch211-229n2.7
ENSDARG000	0.76805792	1.44E-06	cited2
ENSDARG000	0.76485434	0.00345892	npvf
ENSDARG000	0.76291893	1.32E-07	wu:fd16d01
ENSDARG000	0.76226607	0.00281545	tagln
ENSDARG000	0.76066389	0.00078757	EXO5
ENSDARG000	0.75922601	0.00091031	zgc:154075
ENSDARG000	0.75530553	2.85E-05	si:ch211-150o23.2
ENSDARG000	0.75259443	1.43E-08	nupr1
ENSDARG000	0.75067903	0.00366878	tmem88a
ENSDARG000	0.74763367	0.00126246	ANPEP (5 of 5)
ENSDARG000	0.74364232	8.04E-05	-
ENSDARG000	0.74355917	1.35E-09	htatip2
ENSDARG000	0.74334617	0.00354675	CU469544.2
ENSDARG000	0.73871885	3.38E-07	gas5
ENSDARG000	0.73646115	7.76E-06	SERPING1
ENSDARG000	0.73332506	0.00105091	psme2
ENSDARG000	0.73305681	0.0006952	vgl12a
ENSDARG000	0.73009799	0.00163207	TAF1C
ENSDARG000	0.72157839	2.30E-07	zgc:91887
ENSDARG000	0.71998506	4.77E-06	bcat1
ENSDARG000	0.71879831	0.00024869	HMGGA2 (2 of 2)
ENSDARG000	0.71748624	7.02E-07	hmox1
ENSDARG000	0.71656472	1.74E-07	afap111b
ENSDARG000	0.71647012	7.00E-07	tmem176l.1
ENSDARG000	0.71612108	1.48E-08	C6 (1 of 2)
ENSDARG000	0.71415542	0.00010934	txnipb
ENSDARG000	0.70943248	0.00298682	SLC24A6
ENSDARG000	0.70840242	7.84E-06	casp8
ENSDARG000	0.70470247	5.47E-06	PBLD (2 of 2)

ENSDARG000	0.70261065	0.00281944	tgm2l
ENSDARG000	0.69931502	0.00018662	DUSP8 (2 of 2)
ENSDARG000	0.69898451	6.82E-06	etaa1
ENSDARG000	0.69746243	4.29E-08	si:dkey-193b15.6
ENSDARG000	0.69473924	0.00055256	egln3
ENSDARG000	0.68903683	0.00280644	mfsd4b
ENSDARG000	0.68712571	0.00313598	PARP12
ENSDARG000	0.68500821	1.69E-16	phgdh
ENSDARG000	0.68454222	0.00078742	pcmtd2
ENSDARG000	0.68312109	0.00040886	si:dkeyp-110g5.4
ENSDARG000	0.68109241	1.86E-10	sidt2
ENSDARG000	0.68031295	4.63E-08	znf395a
ENSDARG000	0.67389389	3.39E-12	ATF5 (1 of 2)
ENSDARG000	0.67188787	0.00014257	ARAP1 (2 of 4)
ENSDARG000	0.67177655	0.00237203	CCDC96
ENSDARG000	0.67061537	6.42E-09	wu:fb12e11
ENSDARG000	0.66490964	3.52E-05	npl
ENSDARG000	0.66391319	1.10E-05	si:dkey-227h16.2
ENSDARG000	0.66355318	0.00056478	plat
ENSDARG000	0.66334668	3.21E-06	PHGR1
ENSDARG000	0.66171827	5.99E-06	CU929089.1
ENSDARG000	0.66156887	7.42E-15	histh1l
ENSDARG000	0.66153908	6.65E-05	trim55b
ENSDARG000	0.66081415	1.11E-07	si:ch211-154o6.6
ENSDARG000	0.65968116	2.55E-20	h1f0
ENSDARG000	0.65919243	9.75E-05	socs3b
ENSDARG000	0.65400062	8.57E-08	acy1
ENSDARG000	0.65108175	5.31E-05	dao.1
ENSDARG000	0.64788447	1.66E-08	stat3
ENSDARG000	0.64566037	0.0001085	nek2
ENSDARG000	0.6453009	9.40E-09	NAGA
ENSDARG000	0.64226533	6.24E-10	DIABLO (1 of 2)
ENSDARG000	0.64103268	0.00035822	PLXND1 (2 of 2)
ENSDARG000	0.64097952	0.00039508	pyya
ENSDARG000	0.63799761	1.46E-13	mdm2
ENSDARG000	0.63459878	9.39E-07	vegfaa
ENSDARG000	0.63271791	4.18E-05	MYO18B
ENSDARG000	0.62960021	0.00010901	PLCXD1 (2 of 5)
ENSDARG000	0.62857598	0.00108525	si:ch211-199g17.2
ENSDARG000	0.62696871	4.19E-15	tkt
ENSDARG000	0.626296	4.35E-05	slc7a7

ENSDARG000	0.624796	1.13E-09	phlda2
ENSDARG000	0.62462277	2.42E-15	abcb5
ENSDARG000	0.62316667	3.88E-07	chac1
ENSDARG000	0.61804134	1.21E-05	VPS9D1
ENSDARG000	0.61754654	0.00262149	CR384059.1
ENSDARG000	0.61546849	0.00033737	cldn1
ENSDARG000	0.61527571	1.96E-15	psat1
ENSDARG000	0.61383204	2.06E-05	hgd
ENSDARG000	0.61138414	4.91E-05	KRT23 (2 of 15)
ENSDARG000	0.60967725	4.44E-05	PQLC2
ENSDARG000	0.60933318	2.06E-14	fuca1
ENSDARG000	0.60782838	0.00031463	mlpha
ENSDARG000	0.60672542	0.00370896	kcnk5a
ENSDARG000	0.60621391	6.24E-10	tp53
ENSDARG000	0.60398787	2.18E-07	APOM
ENSDARG000	0.60353838	0.00123013	ppp1r3ca
ENSDARG000	0.5989053	6.84E-06	hbbe3
ENSDARG000	0.59842251	9.88E-07	TSPAN2 (2 of 2)
ENSDARG000	0.59377029	0.00014508	-
ENSDARG000	0.59318886	0.00017534	msxd
ENSDARG000	0.59062214	1.28E-10	pi4k2a
ENSDARG000	0.58890605	0.00014639	MASP1
ENSDARG000	0.58260154	8.27E-07	pkp1
ENSDARG000	0.58007386	0.00244892	TIMM22
ENSDARG000	0.58005389	8.26E-05	si:ch73-196i15.3
ENSDARG000	0.57751826	1.28E-06	yrk
ENSDARG000	0.57473423	7.85E-07	keap1a
ENSDARG000	0.57441408	0.00097443	irf7
ENSDARG000	0.57414256	1.12E-07	cfhl4
ENSDARG000	0.57404973	0.00037908	abcb6
ENSDARG000	0.57394405	4.67E-08	zgc:100868
ENSDARG000	0.57381819	0.00010807	rhous
ENSDARG000	0.57301122	0.00016065	pth1rb
ENSDARG000	0.57225545	0.0008793	CU302436.1
ENSDARG000	0.5718032	5.34E-12	slc2a3
ENSDARG000	0.57176671	1.55E-10	KRT18 (2 of 3)
ENSDARG000	0.56928526	3.36E-07	-
ENSDARG000	0.56893102	2.04E-08	xpnpep1
ENSDARG000	0.56841202	0.00213218	her2
ENSDARG000	0.56816977	2.14E-07	tpte
ENSDARG000	0.56805378	4.29E-10	CABZ01088039.1

ENSDARG000	0.56792774	0.00019563	DIABLO (2 of 2)
ENSDARG000	0.56718043	1.75E-05	-
ENSDARG000	0.56683716	2.15E-06	gstt1b
ENSDARG000	0.56518897	2.39E-05	foxj1a
ENSDARG000	0.56295524	2.09E-05	C14H8orf40
ENSDARG000	0.56130035	0.00227266	bach1
ENSDARG000	0.55829983	0.00299701	si:dkeyp-89c11.2
ENSDARG000	0.55793894	1.01E-05	masp2
ENSDARG000	0.55786981	5.98E-05	epb41l4b
ENSDARG000	0.55769429	9.94E-05	trpm4
ENSDARG000	0.5560936	6.95E-07	si:ch211-160e1.5
ENSDARG000	0.5555474	0.00233819	im:7160594
ENSDARG000	0.55462909	1.68E-12	cebpq
ENSDARG000	0.55459257	2.10E-10	rgs4
ENSDARG000	0.55450441	0.00049276	galca
ENSDARG000	0.55313246	1.50E-05	gsto2
ENSDARG000	0.55155175	1.25E-07	eif4ebp3l
ENSDARG000	0.55148362	3.04E-06	fn1b
ENSDARG000	0.54947739	1.37E-07	gpia
ENSDARG000	0.54927343	1.32E-08	mknk2b
ENSDARG000	0.54925787	0.00024683	aspg
ENSDARG000	0.54807055	0.00343755	zgc:101129
ENSDARG000	0.54771325	1.20E-05	si:ch211-87l2.1
ENSDARG000	0.54457498	5.76E-06	eif6
ENSDARG000	0.54276251	4.90E-10	iars
ENSDARG000	0.53966469	3.72E-05	ptgs2a
ENSDARG000	0.53912069	8.49E-06	FAM107A
ENSDARG000	0.53890704	0.00013361	gata6
ENSDARG000	0.53857604	6.48E-09	si:dkeyp-69b9.3
ENSDARG000	0.53628804	1.21E-06	matn3b
ENSDARG000	0.53559583	0.00174005	pargl
ENSDARG000	0.53556051	3.70E-05	il12rb2l
ENSDARG000	0.532659	0.00173731	apol1
ENSDARG000	0.53257659	1.03E-06	tmem88b
ENSDARG000	0.53156212	0.00303656	rnf213a
ENSDARG000	0.53085988	2.60E-07	si:dkey-222f8.3
ENSDARG000	0.53016206	0.00175161	wbp1lb
ENSDARG000	0.52880337	0.00166624	BEND2
ENSDARG000	0.52700592	1.44E-06	hoxb6b
ENSDARG000	0.52620471	0.00057663	nek6
ENSDARG000	0.52395304	0.00080707	CR376783.1

ENSDARG000	0.5207887	0.00226107	idua
ENSDARG000	0.52058933	0.00131943	BCL6B
ENSDARG000	0.51975328	0.0008627	crfb17
ENSDARG000	0.51875776	0.00028851	dnajb1b
ENSDARG000	0.51822975	1.79E-06	txnipa
ENSDARG000	0.51809904	0.00185283	si:ch211-74m13.3
ENSDARG000	0.51750167	8.61E-05	fpgs
ENSDARG000	0.51661961	1.32E-05	SLC38A5 (2 of 2)
ENSDARG000	0.5154584	0.00206476	adam28
ENSDARG000	0.51469022	0.00120834	her4.5
ENSDARG000	0.51433044	9.57E-12	psap
ENSDARG000	0.51338776	2.11E-09	cp
ENSDARG000	0.51296174	0.00140262	bgnb
ENSDARG000	0.51027266	2.17E-07	mcl1b
ENSDARG000	0.51020625	1.37E-08	bhmt
ENSDARG000	0.50943959	0.00385855	nthl1
ENSDARG000	0.50929806	9.36E-07	PPP1R15A
ENSDARG000	0.50918588	2.90E-07	plcd1a
ENSDARG000	0.50767043	0.00011504	tnfrsf1a
ENSDARG000	0.50742043	2.96E-08	trib3
ENSDARG000	0.50739278	0.00237973	hars2
ENSDARG000	0.50475773	1.27E-10	ccng1
ENSDARG000	0.50402387	0.00383706	SSX2IP (2 of 2)
ENSDARG000	0.50358904	0.00261469	CABZ01006835.1
ENSDARG000	0.50334992	0.00201176	tfe3a
ENSDARG000	0.50260678	8.15E-05	clcc14a
ENSDARG000	0.50222545	0.00279562	GAB2
ENSDARG000	0.5019525	0.00043578	adamts1
ENSDARG000	0.50111253	5.37E-08	keap1b
ENSDARG000	0.49987882	3.98E-05	slc6a15
ENSDARG000	0.49979047	1.15E-05	sqrcl
ENSDARG000	0.49966543	1.96E-05	BX294110.1
ENSDARG000	0.49582867	0.00383448	scarb1
ENSDARG000	0.49579453	0.0025285	AHCYL2 (2 of 2)
ENSDARG000	0.49454082	5.97E-06	clca
ENSDARG000	0.49205798	8.76E-10	MLIP
ENSDARG000	0.49034109	0.00084378	pld1b
ENSDARG000	0.48947806	1.15E-06	gclc
ENSDARG000	0.48917382	2.61E-12	c9
ENSDARG000	0.48912039	3.76E-05	npr3
ENSDARG000	0.48793595	1.92E-05	bcl6ab

ENSDARG000	0.48638882	0.00202893	il13ra1
ENSDARG000	0.48405884	5.45E-14	aars
ENSDARG000	0.48403633	0.00079699	MAL (2 of 3)
ENSDARG000	0.48339049	9.76E-05	p4ha1b
ENSDARG000	0.48160708	1.54E-05	ctsz
ENSDARG000	0.48129398	6.16E-06	sepp1b
ENSDARG000	0.48088541	5.58E-05	hoxc5a
ENSDARG000	0.48062986	0.00129847	kcnk6
ENSDARG000	0.4803939	0.00028813	DNAH2
ENSDARG000	0.48016971	0.00015168	brap
ENSDARG000	0.47974937	3.17E-08	hoxb5b
ENSDARG000	0.4795651	0.00123178	PRSS16
ENSDARG000	0.4784977	1.15E-06	sfxn2
ENSDARG000	0.47805875	6.50E-06	myca
ENSDARG000	0.47773895	0.00202007	notch1a
ENSDARG000	0.477144	0.00166822	smad9
ENSDARG000	0.47699298	0.00301641	esama
ENSDARG000	0.47659303	0.00369828	otud4
ENSDARG000	0.47498794	0.00251583	mms22l
ENSDARG000	0.47232058	0.00039086	hao1
ENSDARG000	0.47201529	0.00105269	slc12a9
ENSDARG000	0.47193388	6.51E-06	si:ch211-117m20.5
ENSDARG000	0.47155942	0.00013054	CABZ01048402.1
ENSDARG000	0.47111741	0.00199011	chp2
ENSDARG000	0.47107359	2.95E-05	Metazoa_SRP
ENSDARG000	0.47102744	0.00010751	mical3b
ENSDARG000	0.46992872	8.60E-06	si:ch211-157c3.4
ENSDARG000	0.46957134	1.81E-06	zgc:92518
ENSDARG000	0.46856125	0.00160623	renbp
ENSDARG000	0.46846624	0.00032888	nenf
ENSDARG000	0.46708747	3.62E-05	rock2b
ENSDARG000	0.4667554	1.22E-05	maff
ENSDARG000	0.46527373	7.69E-05	asb2b
ENSDARG000	0.46423155	2.19E-08	atic
ENSDARG000	0.46406755	0.00017117	slc16a4
ENSDARG000	0.46378044	0.00273076	ypel3
ENSDARG000	0.46112613	7.85E-07	cbsb
ENSDARG000	0.46034881	8.94E-06	ddit3
ENSDARG000	0.45978158	0.00130939	miox
ENSDARG000	0.45656509	0.00033037	SMARCA1
ENSDARG000	0.45593337	3.00E-07	map1lc3a

ENSDARG000	0.4558058	3.83E-05	asap3
ENSDARG000	0.4538765	0.00136078	urah
ENSDARG000	0.45271677	8.07E-07	tjp3
ENSDARG000	0.45146398	1.43E-09	npc1
ENSDARG000	0.45089577	0.00012796	csad
ENSDARG000	0.45055177	0.00020165	SBNO2 (2 of 3)
ENSDARG000	0.450495	0.00150693	ddit4
ENSDARG000	0.45034774	5.70E-06	FILIP1L (2 of 2)
ENSDARG000	0.4497179	0.00196686	rfx4
ENSDARG000	0.44784125	0.00203903	neil3
ENSDARG000	0.44640417	4.69E-06	txlnbb
ENSDARG000	0.44593394	1.39E-06	tpp1
ENSDARG000	0.44531562	2.99E-05	hbegfa
ENSDARG000	0.44304009	0.00029917	rnf11a
ENSDARG000	0.44253496	0.00068301	TMEM30B
ENSDARG000	0.44250334	2.87E-09	dars
ENSDARG000	0.44237157	1.73E-05	il6st
ENSDARG000	0.43998931	3.32E-05	foxn4
ENSDARG000	0.4397668	0.00154769	CABZ01045212.1
ENSDARG000	0.43890414	0.00212657	hpdb
ENSDARG000	0.43817635	8.33E-06	txn
ENSDARG000	0.43806312	0.00340766	b3gnt7
ENSDARG000	0.43707795	1.15E-05	ubxn6
ENSDARG000	0.43682035	0.00018163	dll4
ENSDARG000	0.43578344	0.00265517	PELI3
ENSDARG000	0.43575449	0.00057258	wu:fy63c09
ENSDARG000	0.43539942	4.67E-06	si:dkey-157l19.2
ENSDARG000	0.43385064	1.47E-05	fsta
ENSDARG000	0.43381367	0.00057823	TMEM66
ENSDARG000	0.43335592	0.00084065	zgc:77439
ENSDARG000	0.43293033	1.26E-05	grhprb
ENSDARG000	0.43279287	4.65E-06	CD68
ENSDARG000	0.43184884	0.00306151	emx1
ENSDARG000	0.43137541	2.73E-05	hoxc6a
ENSDARG000	0.43042358	2.23E-05	fdps
ENSDARG000	0.42978515	0.00051031	pawrl
ENSDARG000	0.42788467	0.00053294	CU914772.1
ENSDARG000	0.42755818	7.69E-06	si:dkey-205h13.2
ENSDARG000	0.4272686	0.00175715	mpdu1a
ENSDARG000	0.42668372	0.00024544	snx17
ENSDARG000	0.42623781	0.00028257	bhlhe40

ENSDARG000	0.42537346	0.00250564	pfkfb3
ENSDARG000	0.42495209	0.00015543	si:ch211-183d21.1
ENSDARG000	0.4249324	0.00087941	amdhd2
ENSDARG000	0.42431601	0.00018158	lepr
ENSDARG000	0.42307066	0.00079667	plk2b
ENSDARG000	0.42197998	0.00166935	-
ENSDARG000	0.4215855	0.0032106	foxf2a
ENSDARG000	0.42103943	4.30E-07	ctgfa
ENSDARG000	0.42102893	0.00031038	twist3
ENSDARG000	0.42063507	0.00169505	dlx6a
ENSDARG000	0.41960228	0.00013229	asns
ENSDARG000	0.4192978	0.0017263	ctdp1
ENSDARG000	0.41915452	1.66E-05	olig2
ENSDARG000	0.41894856	0.00032397	flt4
ENSDARG000	0.41762975	1.05E-07	zgc:193505
ENSDARG000	0.417472	0.00015378	carhsp1
ENSDARG000	0.4164433	0.00097669	ntd5
ENSDARG000	0.41580216	0.00213402	zgc:64115
ENSDARG000	0.41512992	9.45E-06	eif2ak1
ENSDARG000	0.4150663	0.0003186	cyp2aa8
ENSDARG000	0.4143135	3.18E-05	TENC1 (2 of 2)
ENSDARG000	0.41352461	0.00080611	CABZ01080397.1
ENSDARG000	0.41260974	0.00046037	pck1
ENSDARG000	0.41159241	8.53E-05	zgc:92113
ENSDARG000	0.41114549	3.29E-06	soga3b
ENSDARG000	0.41045925	0.00164128	nipal3
ENSDARG000	0.41026449	0.00113498	smtnl
ENSDARG000	0.40983805	2.65E-05	jag1a
ENSDARG000	0.40932738	0.0035767	clu
ENSDARG000	0.40926039	0.00027784	NEDD4 (2 of 2)
ENSDARG000	0.40782214	3.53E-05	CPT1A (1 of 2)
ENSDARG000	0.40574435	5.31E-08	anxa1c
ENSDARG000	0.40517503	0.00143535	tnnt2a
ENSDARG000	0.40516485	4.16E-06	sesn3
ENSDARG000	0.40463795	0.00276995	stx11b.1
ENSDARG000	0.40242377	9.03E-06	gart
ENSDARG000	0.40203658	0.00113516	ly75
ENSDARG000	0.40008645	0.00070514	cav2
ENSDARG000	0.39759245	0.00015885	AOC2
ENSDARG000	0.39571908	0.00046813	gpt2
ENSDARG000	0.39541344	0.00080747	nkx2.2a

ENSDARG000	0.39517962	0.00038815	arl4cb
ENSDARG000	0.3949051	0.00348846	FAM181B
ENSDARG000	0.39443408	0.00027467	zgc:153018
ENSDARG000	0.39223896	0.00117465	chad
ENSDARG000	0.39166594	3.01E-05	-
ENSDARG000	0.39068655	0.00059396	zgc:112484
ENSDARG000	0.38879636	0.00225627	ubr1
ENSDARG000	0.38624747	0.00313755	ildr1a
ENSDARG000	0.3850057	0.00022692	ca5
ENSDARG000	0.38334018	1.92E-07	mthfd1l
ENSDARG000	0.38284398	0.00099806	ptpn23b
ENSDARG000	0.38104189	4.64E-07	desma
ENSDARG000	0.38052747	5.78E-06	she
ENSDARG000	0.38019742	0.00013745	cldn5b
ENSDARG000	0.3801163	0.0001524	slc3a2a
ENSDARG000	0.37980678	0.00188019	gfm2
ENSDARG000	0.37964678	0.00027777	heatr7a
ENSDARG000	0.37910519	0.00059239	zic2b
ENSDARG000	0.3788452	5.83E-05	tmem110l
ENSDARG000	0.37713728	0.00010306	eif4a2
ENSDARG000	0.37704527	0.00098605	asah1b
ENSDARG000	0.37692995	2.69E-05	BX005076.1
ENSDARG000	0.37648263	0.00032287	ftr83
ENSDARG000	0.37597952	0.00100674	PARP4
ENSDARG000	0.37529401	0.00059713	AL929286.1
ENSDARG000	0.37439424	2.04E-07	ctsd
ENSDARG000	0.37425207	6.33E-07	anxa1a
ENSDARG000	0.37284541	0.00260113	cx39.9
ENSDARG000	0.37261266	0.00059509	g6pd
ENSDARG000	0.37239995	0.00036279	pard6gb
ENSDARG000	0.37160849	0.00036929	foxp1a
ENSDARG000	0.37091264	5.76E-09	si:ch211-166a6.5
ENSDARG000	0.37031781	0.00013514	fam217b
ENSDARG000	0.37010827	0.00099386	aim1b
ENSDARG000	0.36808481	7.54E-05	qsox1
ENSDARG000	0.36753426	0.00037247	mical2b
ENSDARG000	0.36679687	0.00017203	ucp1
ENSDARG000	0.36646556	3.08E-07	DDX17
ENSDARG000	0.36639314	8.53E-07	cdh1
ENSDARG000	0.36580592	1.11E-07	aim1a
ENSDARG000	0.36569989	1.30E-05	tefa

ENSDARG000	0.36547026	2.93E-05	evpla
ENSDARG000	0.36538412	2.27E-06	tmem189
ENSDARG000	0.36462996	0.00132991	lbx2
ENSDARG000	0.36424501	0.00345438	SIK1
ENSDARG000	0.36215172	0.00068778	reep3
ENSDARG000	0.36155755	0.00104916	ak3
ENSDARG000	0.36133635	0.00015288	MAN2B1
ENSDARG000	0.36106188	0.00025281	rnf128a
ENSDARG000	0.36075843	0.00258849	hoxb1b
ENSDARG000	0.35875776	3.00E-05	ctdsp2
ENSDARG000	0.357469	0.00358481	ccdc28a
ENSDARG000	0.35717844	2.02E-05	scel
ENSDARG000	0.35709988	0.00037864	ALDH1L2
ENSDARG000	0.35641183	0.00012523	angptl4
ENSDARG000	0.35566166	0.00299401	parp3
ENSDARG000	0.35510091	0.00035781	adck3
ENSDARG000	0.35503521	6.44E-05	rps25
ENSDARG000	0.35492828	0.00133562	ARHGAP29 (1 of 2)
ENSDARG000	0.35465222	0.00206473	crabp1b
ENSDARG000	0.35456006	1.44E-05	dsg2
ENSDARG000	0.35435948	0.00281098	hnf4a
ENSDARG000	0.3530856	0.00019226	ppm1k
ENSDARG000	0.35218234	0.0025856	slc24a3
ENSDARG000	0.35147045	0.00278562	C4A
ENSDARG000	0.35090097	0.00029309	bri3
ENSDARG000	0.35030844	0.00241456	MUM1
ENSDARG000	0.34976973	0.00351786	abcg2c
ENSDARG000	0.34795598	0.00027909	7-Mar
ENSDARG000	0.34754996	1.84E-06	GLTSCR2
ENSDARG000	0.34661618	0.00011422	si:dkey-157g16.6
ENSDARG000	0.34610995	0.00171545	CPN2
ENSDARG000	0.34517682	0.00023078	exoc6b
ENSDARG000	0.34460041	0.00272764	dlx1a
ENSDARG000	0.34439495	5.38E-05	dlx3b
ENSDARG000	0.34215287	2.66E-05	spata13
ENSDARG000	0.34159238	1.04E-05	copeb
ENSDARG000	0.34041985	0.00064185	eng1b
ENSDARG000	0.34010399	0.00361064	si:ch211-232i5.3
ENSDARG000	0.33860246	0.00013268	tsc2
ENSDARG000	0.33847424	0.00169723	zgc:158387
ENSDARG000	0.33847075	0.0020602	pskh1

ENSDARG000	0.33790951	3.45E-07	hoxb3a
ENSDARG000	0.33763413	5.13E-06	tex2
ENSDARG000	0.3370051	0.00357703	gpd1c
ENSDARG000	0.33690494	0.00041168	CABZ01087568.1
ENSDARG000	0.33668063	6.40E-06	akt1s1
ENSDARG000	0.33632305	0.00067081	SIK3
ENSDARG000	0.33501028	0.0005866	st3gal2l
ENSDARG000	0.33441002	0.00061011	cnppd1
ENSDARG000	0.33438464	0.0009691	elmod2
ENSDARG000	0.33410129	0.00177827	setd7
ENSDARG000	0.33377495	7.40E-08	KRT23 (1 of 15)
ENSDARG000	0.33374529	0.00211846	CD302
ENSDARG000	0.33290496	0.00089505	rgl1
ENSDARG000	0.33285117	0.00019248	FAM83G (1 of 2)
ENSDARG000	0.33250953	0.00052557	zyx
ENSDARG000	0.33226648	3.81E-06	map1lc3b
ENSDARG000	0.33222467	0.00346549	spc25
ENSDARG000	0.33067664	0.00015734	MTMR4
ENSDARG000	0.330511	0.00304002	zgc:153129
ENSDARG000	0.32999422	0.00027308	irs2
ENSDARG000	0.32979955	8.72E-05	vps13a
ENSDARG000	0.32951561	0.00066954	dpydb
ENSDARG000	0.32921087	5.19E-05	lgnm
ENSDARG000	0.32838665	0.00019263	esrp1
ENSDARG000	0.32813022	0.00148505	arhgap11a
ENSDARG000	0.32725213	1.97E-06	pdcd4a
ENSDARG000	0.32693103	0.00119948	SPHK2
ENSDARG000	0.32629397	0.000171	fabp1b.1
ENSDARG000	0.32569338	0.00175576	epb41l3b
ENSDARG000	0.32553353	0.00180996	akr1a1b
ENSDARG000	0.32533488	0.00051496	riok3
ENSDARG000	0.32452646	0.00096793	znf143a
ENSDARG000	0.32450133	0.0003309	CELSR2 (1 of 2)
ENSDARG000	0.32448268	1.53E-06	vim
ENSDARG000	0.32414406	0.0031284	her9
ENSDARG000	0.32331979	0.0009668	sp8b
ENSDARG000	0.32202139	0.00388015	matn3a
ENSDARG000	0.32201539	6.08E-05	atp1a1a.2
ENSDARG000	0.32188689	0.00018021	sept9b
ENSDARG000	0.32184032	0.00042359	-
ENSDARG000	0.32105148	0.00116224	cyp3c1

ENSDARG000	0.3207617	2.56E-05	pkp3
ENSDARG000	0.31930125	0.00063185	rras2
ENSDARG000	0.31858278	0.00144839	zfp36l1b
ENSDARG000	0.31817438	0.0001231	-
ENSDARG000	0.31808675	0.00175344	PDE3B
ENSDARG000	0.31635647	9.80E-05	gtpbp1
ENSDARG000	0.31501951	0.00032127	tmem63ba
ENSDARG000	0.31351155	0.00040764	hspb8
ENSDARG000	0.31213009	1.69E-05	rpl11
ENSDARG000	0.31211808	0.00183012	gatsl2
ENSDARG000	0.31183355	0.00018886	PARD3B (1 of 2)
ENSDARG000	0.31169056	0.00028721	id3
ENSDARG000	0.31086406	8.77E-05	fzr1
ENSDARG000	0.31083152	0.0003396	slc13a2
ENSDARG000	0.31072651	0.00021839	LRP10
ENSDARG000	0.30970988	3.96E-05	shmt2
ENSDARG000	0.3071402	0.00287378	lrrc57
ENSDARG000	0.30661767	0.00050558	at13
ENSDARG000	0.30616419	0.00012326	eif2b4
ENSDARG000	0.30610196	0.0004083	prrx1a
ENSDARG000	0.30601012	0.00032813	lzts2a
ENSDARG000	0.30577815	0.00049125	myl9b
ENSDARG000	0.30503916	0.00072793	fam100b
ENSDARG000	0.30355054	0.0001027	GPA33 (1 of 2)
ENSDARG000	0.30237976	0.00069767	hoxb5a
ENSDARG000	0.3022015	0.0009909	erfl3
ENSDARG000	0.30074882	9.13E-05	cfb
ENSDARG000	0.30073675	0.00029623	tp53bp2
ENSDARG000	0.30024549	0.00069764	erf
ENSDARG000	0.2991637	0.00374691	nkx6.2
ENSDARG000	0.29911056	0.00162936	reps1
ENSDARG000	0.29760213	0.00071293	tars
ENSDARG000	0.29588724	1.73E-05	tgif1
ENSDARG000	0.29571099	7.08E-05	farsa
ENSDARG000	0.29463623	0.00015356	aldocb
ENSDARG000	0.29461086	0.00151018	hivep1
ENSDARG000	0.29441679	0.00010211	mcamb
ENSDARG000	0.2933921	0.00223217	rxf2
ENSDARG000	0.29286394	0.00364741	gna15.1
ENSDARG000	0.29261402	0.00291543	crlf3
ENSDARG000	0.29206775	2.06E-05	trim71

ENSDARG000	0.28794739	0.00307938	amotl2b
ENSDARG000	0.2878243	0.0012989	slc38a2
ENSDARG000	0.28764337	0.00367794	atoh8
ENSDARG000	0.28613632	0.0020494	CR450814.3
ENSDARG000	0.2860198	0.00030826	znf185
ENSDARG000	0.28573459	0.00321883	SEMA4B (2 of 2)
ENSDARG000	0.28562867	0.0005225	apg3l
ENSDARG000	0.28527931	0.00261946	usp28
ENSDARG000	0.28483788	0.00022477	flna
ENSDARG000	0.28397784	0.00092924	ell
ENSDARG000	0.28302227	0.00061108	sox3
ENSDARG000	0.28203746	0.00066433	gab1
ENSDARG000	0.28195654	0.00056101	LAMA1
ENSDARG000	0.28034097	0.00041894	usp36
ENSDARG000	0.27933813	0.0004505	hipk3a
ENSDARG000	0.27929582	3.12E-06	atf4b1
ENSDARG000	0.27803881	0.00191312	KIF13A
ENSDARG000	0.27795204	0.0033513	zgc:171775
ENSDARG000	0.27743515	0.00303591	sik2b
ENSDARG000	0.27671622	0.00088656	ZFP36
ENSDARG000	0.27568346	0.00348579	sdcbp2
ENSDARG000	0.27518413	0.00035831	ccar1
ENSDARG000	0.27417708	2.28E-05	net1
ENSDARG000	0.27303638	0.00020278	ddx21
ENSDARG000	0.2720689	0.00157337	zc3h14
ENSDARG000	0.27197839	0.00289409	ints1
ENSDARG000	0.2700531	0.00058047	itsn2b
ENSDARG000	0.26893661	0.00068533	zhx3
ENSDARG000	0.26878501	0.00227477	TNS3 (2 of 2)
ENSDARG000	0.26871263	0.00306305	NBR1 (1 of 2)
ENSDARG000	0.26861589	0.00251629	TAOK1 (3 of 3)
ENSDARG000	0.26799788	0.00073125	MTUS1 (2 of 2)
ENSDARG000	0.26686386	5.46E-05	ahr2
ENSDARG000	0.26600004	0.00046603	EIF2S1
ENSDARG000	0.26593811	0.00347682	nkx6.1
ENSDARG000	0.26512156	6.59E-05	eprs
ENSDARG000	0.2633702	0.00196081	slu7
ENSDARG000	0.26038946	0.00017918	sdcb4
ENSDARG000	0.26037936	0.00125614	sox9b
ENSDARG000	0.25867631	0.00268708	snai2
ENSDARG000	0.25830869	0.00219706	smo

ENSDARG000	0.25737703	0.00162901	srgap1
ENSDARG000	0.25733719	0.00098506	sh2b1
ENSDARG000	0.25677457	0.00358563	fbp1a
ENSDARG000	0.25547208	0.00280569	alox12
ENSDARG000	0.25474492	0.00327997	iscu
ENSDARG000	0.2546052	0.00360681	glrx
ENSDARG000	0.25142434	0.00066861	MKL1 (1 of 2)
ENSDARG000	0.25103054	0.00324685	ak2
ENSDARG000	0.24971297	8.96E-05	dspa
ENSDARG000	0.24945672	0.00041761	ilk
ENSDARG000	0.24912678	0.00047737	pou2f2a
ENSDARG000	0.24826328	0.00219666	ptbp1b
ENSDARG000	0.24763817	0.00151128	lats2
ENSDARG000	0.24725165	0.00115463	nup214
ENSDARG000	0.24694226	0.00129898	mafba
ENSDARG000	0.24686755	0.00019268	sdprb
ENSDARG000	0.24684501	0.00088533	znf292b
ENSDARG000	0.2437103	0.0030513	ptprua
ENSDARG000	0.24346905	0.00184065	SHISA5
ENSDARG000	0.24285001	0.00138402	igsf9b
ENSDARG000	0.24237959	0.00120781	rps7
ENSDARG000	0.2420505	0.00088044	PHF3
ENSDARG000	0.24047419	0.00216889	fzd7a
ENSDARG000	0.24028807	6.03E-05	gtpbp4
ENSDARG000	0.2401193	0.00323726	cask
ENSDARG000	0.24009291	0.00071377	tob1b
ENSDARG000	0.23931368	0.00384265	NEO1 (2 of 2)
ENSDARG000	0.23761883	0.00122746	rpl32
ENSDARG000	0.23495209	0.00102328	cstf3
ENSDARG000	0.23417151	0.00208046	hhip
ENSDARG000	0.2322607	0.0008345	gapdhs
ENSDARG000	0.23196311	0.00084794	rsl24d1
ENSDARG000	0.2274267	0.00357918	PTK7 (1 of 2)
ENSDARG000	0.22653232	0.00179566	PAM
ENSDARG000	0.22593528	0.00155873	atf6
ENSDARG000	0.22487022	0.00141008	gcn1l1
ENSDARG000	0.22453531	0.00336998	lrig1
ENSDARG000	0.22401507	0.00152577	TUSC5 (1 of 2)
ENSDARG000	0.22341865	0.00039294	lrp5
ENSDARG000	0.2233096	0.00281281	TCEB3C
ENSDARG000	0.21850161	0.0012383	vezf1a

ENSDARG000	0.21838721	0.00382621	rad23b
ENSDARG000	0.21832091	0.00276255	fgfr1a
ENSDARG000	0.21544382	0.00068641	krt18
ENSDARG000	0.21435325	0.00079686	BAZ2B (1 of 2)
ENSDARG000	0.21242434	0.00370863	rnd3a
ENSDARG000	0.21166568	0.00347617	FO XK2 (1 of 2)
ENSDARG000	0.21124808	0.00334129	ptch2
ENSDARG000	0.20842919	0.00354436	atf4b2
ENSDARG000	0.20633904	0.00128664	nsa2
ENSDARG000	0.20393182	0.00386692	boc
ENSDARG000	0.19731986	0.00311969	caprin1b
ENSDARG000	0.19243205	0.00366435	atp1a1a.4
ENSDARG000	0.19029751	0.00242445	eif4g2b
ENSDARG000	-0.1903682	0.00336622	ttyh3b
ENSDARG000	-0.1907093	0.00208778	kdelr2a
ENSDARG000	-0.2000491	0.00285115	IGFN1 (2 of 3)
ENSDARG000	-0.2004876	0.00351475	clstn3
ENSDARG000	-0.2021923	0.00289137	mybpc3
ENSDARG000	-0.2052415	0.00219224	fam49a
ENSDARG000	-0.2059488	0.00347772	map2
ENSDARG000	-0.2098108	0.00153955	canx
ENSDARG000	-0.2133893	0.00146383	impdh1b
ENSDARG000	-0.2134816	0.00211668	dpysl5a
ENSDARG000	-0.2145078	0.00121158	pcl
ENSDARG000	-0.214543	0.0009921	atp1a1b
ENSDARG000	-0.2148388	0.00322079	gpm6ba
ENSDARG000	-0.2154898	0.0032198	mfap1
ENSDARG000	-0.2192404	0.00195502	SNAP91 (2 of 2)
ENSDARG000	-0.2192618	0.00151987	PDE4DIP
ENSDARG000	-0.2195575	0.00048126	pdha1a
ENSDARG000	-0.2206738	0.00193193	cnih
ENSDARG000	-0.2231849	0.00119762	and3
ENSDARG000	-0.2239123	0.00232819	hnrnpa0b
ENSDARG000	-0.2245739	0.00349345	ppib
ENSDARG000	-0.2249175	0.0028198	smarca5
ENSDARG000	-0.2260334	0.00045289	pik3r1
ENSDARG000	-0.2264632	0.00216831	chpt1
ENSDARG000	-0.2274966	0.00317005	loxl2b
ENSDARG000	-0.2285941	0.00313872	mt-co3
ENSDARG000	-0.2296843	0.00101972	marcksb
ENSDARG000	-0.2314299	0.00054235	MAPT (1 of 2)

ENSDARG000	-0.2326628	0.00217569	smu1
ENSDARG000	-0.233933	0.00269152	etnk1
ENSDARG000	-0.2367853	0.00018853	atp1b2a
ENSDARG000	-0.2385097	0.00155827	ddost
ENSDARG000	-0.2387112	0.00265313	aldh1a2
ENSDARG000	-0.24023	0.00131291	podxl
ENSDARG000	-0.2402357	0.00186705	CU928083.1
ENSDARG000	-0.2412069	0.00043275	coro1b
ENSDARG000	-0.2419439	0.00156912	emc1
ENSDARG000	-0.24225	0.00220771	tmem33
ENSDARG000	-0.2428567	0.0011675	ppm1g
ENSDARG000	-0.2442884	0.00043955	tmod4
ENSDARG000	-0.2443554	0.00074685	ctbp2
ENSDARG000	-0.2448263	0.00252211	hnrnpab
ENSDARG000	-0.2458529	0.00237801	tpra
ENSDARG000	-0.2459722	0.00014424	mapre1b
ENSDARG000	-0.2463677	0.0010689	ccdc124
ENSDARG000	-0.2485575	0.0033521	capn12
ENSDARG000	-0.2486586	0.00362599	cadm3
ENSDARG000	-0.2490906	0.00010232	smyhc2
ENSDARG000	-0.2491234	0.00322479	rgs20
ENSDARG000	-0.249996	0.00347235	pcdh1g30
ENSDARG000	-0.2508564	0.00116364	agpat3
ENSDARG000	-0.2513506	0.00264666	FAM53C
ENSDARG000	-0.2516046	0.00036348	dct
ENSDARG000	-0.2522892	0.00140695	mtch2
ENSDARG000	-0.2525614	0.00016612	p4hb
ENSDARG000	-0.2527209	0.00358444	cep290
ENSDARG000	-0.2528816	0.00095358	aldh7a1
ENSDARG000	-0.2529362	0.00250628	atp5g3a
ENSDARG000	-0.2530146	0.0011435	tuba8l4
ENSDARG000	-0.2534293	0.00090159	ptmaa
ENSDARG000	-0.2552175	0.00052974	psma3
ENSDARG000	-0.2566901	0.00204729	ifrd2
ENSDARG000	-0.2576174	0.00159149	gatm
ENSDARG000	-0.2577501	0.00217978	atp6v0cb
ENSDARG000	-0.2578042	0.00104273	hmgn2
ENSDARG000	-0.2579972	0.00145043	psmd8
ENSDARG000	-0.258192	0.00194381	zc3h15
ENSDARG000	-0.258205	0.00045474	fkbp9
ENSDARG000	-0.258727	0.00252918	ppp1r14ba

ENSDARG000	-0.2596092	0.00021161	uqcrc1
ENSDARG000	-0.2597494	0.000941	COL5A2 (1 of 2)
ENSDARG000	-0.2599812	0.00275577	ewsr1a
ENSDARG000	-0.2605552	0.00278874	tsc22d2
ENSDARG000	-0.2610021	0.00116136	AEBP1 (2 of 2)
ENSDARG000	-0.2610761	0.00123095	got2b
ENSDARG000	-0.2620263	0.00170324	psmd11b
ENSDARG000	-0.2645051	0.0017518	ruvbl1
ENSDARG000	-0.2645813	0.00013993	aqp3a
ENSDARG000	-0.2647711	0.00300626	psmd4a
ENSDARG000	-0.2650187	0.00062064	psmd7
ENSDARG000	-0.2656093	0.00203317	-
ENSDARG000	-0.2656219	0.00223977	col9a2
ENSDARG000	-0.2667298	0.00135493	znf207b
ENSDARG000	-0.2674856	0.00324513	stag1a
ENSDARG000	-0.269184	0.00125284	tdg
ENSDARG000	-0.2709356	0.00014651	serpina1
ENSDARG000	-0.2716876	0.00267713	col1a1b
ENSDARG000	-0.2732652	0.00012609	cplx2
ENSDARG000	-0.2736229	0.00010353	vcp
ENSDARG000	-0.2737935	0.00154215	hmga1b
ENSDARG000	-0.274435	0.00373152	col6a3
ENSDARG000	-0.2745406	0.00045708	fam123a
ENSDARG000	-0.2748615	0.00030522	EIF4G3B
ENSDARG000	-0.2753255	0.00016949	fus
ENSDARG000	-0.2754463	0.00036238	caprin1a
ENSDARG000	-0.275655	0.00141928	ilf3b
ENSDARG000	-0.2766416	0.00019288	cryba2b
ENSDARG000	-0.2766868	0.00048894	lrpprc
ENSDARG000	-0.2778748	0.00309842	ZGC:100906
ENSDARG000	-0.2780677	0.00030809	hadhab
ENSDARG000	-0.2785182	0.00176034	cd82b
ENSDARG000	-0.2787917	0.00229331	tmco1
ENSDARG000	-0.2806818	0.00259929	cbx3b
ENSDARG000	-0.2827785	0.00029678	ZGC:158291
ENSDARG000	-0.2829681	0.00010298	bcl2l10
ENSDARG000	-0.2839334	0.00085844	slc39a7
ENSDARG000	-0.2842357	0.00091532	rrm1
ENSDARG000	-0.2845103	4.18E-05	col11a1b
ENSDARG000	-0.2857043	0.00340013	gdpd1
ENSDARG000	-0.285972	0.00032756	SATB1

ENSDARG000	-0.2871503	0.00132118	si:ch73-74h11.1
ENSDARG000	-0.2882046	0.00028626	CABZ01055343.2
ENSDARG000	-0.2886671	3.79E-05	col18a1
ENSDARG000	-0.2889708	0.00186564	efna1a
ENSDARG000	-0.2901955	9.97E-05	prox1a
ENSDARG000	-0.2902806	0.00299932	nfixa
ENSDARG000	-0.2903789	0.00246938	MYL4
ENSDARG000	-0.2909582	0.002621	get4
ENSDARG000	-0.2919109	0.00150528	naa10
ENSDARG000	-0.291956	0.00026034	jakmip2
ENSDARG000	-0.292751	0.00011803	golga7ba
ENSDARG000	-0.2930677	0.00082113	acadm
ENSDARG000	-0.2934674	0.00309904	parp2
ENSDARG000	-0.2953931	0.00101335	ddx1
ENSDARG000	-0.2959203	0.00386414	zgc:165543
ENSDARG000	-0.2966233	0.00044151	pfkfb4l
ENSDARG000	-0.2966422	0.00177462	WFS1 (1 of 2)
ENSDARG000	-0.2967239	0.0033655	BX842614.2
ENSDARG000	-0.2968859	0.00152262	pgm2
ENSDARG000	-0.2971825	0.00165079	COMP
ENSDARG000	-0.2978199	0.00014792	tob1a
ENSDARG000	-0.2983109	0.00075455	DSCAML1
ENSDARG000	-0.298408	0.00078783	xirp2a
ENSDARG000	-0.2985652	0.00021504	calrl2
ENSDARG000	-0.2989938	0.00224169	gpcpd1
ENSDARG000	-0.2990835	0.00233475	THOP1
ENSDARG000	-0.2994868	9.31E-05	tnnt2d
ENSDARG000	-0.3015659	0.00230382	cmn
ENSDARG000	-0.3035984	0.00011211	h2afv
ENSDARG000	-0.3040185	0.00056201	ssrp1a
ENSDARG000	-0.3044185	0.00352315	hsd11b2
ENSDARG000	-0.3045398	0.00383812	casp7
ENSDARG000	-0.3046196	4.58E-06	calr
ENSDARG000	-0.3049428	0.00065814	angptl2
ENSDARG000	-0.3052664	0.00171914	slc1a3b
ENSDARG000	-0.3054461	0.00145769	TNC (2 of 2)
ENSDARG000	-0.3054997	0.00116535	tim13
ENSDARG000	-0.3056095	0.00088935	mrpl38
ENSDARG000	-0.3059978	0.00072937	aco2
ENSDARG000	-0.3065306	6.24E-07	atp1a3a
ENSDARG000	-0.306622	0.00295061	POU6F2

ENSDARG000	-0.3066357	0.00103829	bhlhe22
ENSDARG000	-0.3069708	0.0017551	cacng3b
ENSDARG000	-0.3073006	0.00039327	ckmt2
ENSDARG000	-0.308706	0.00114019	sh3glb2b
ENSDARG000	-0.3092334	0.00256757	PDCL3
ENSDARG000	-0.3097805	0.0022262	itga8
ENSDARG000	-0.3103461	0.00031423	ptprt
ENSDARG000	-0.3105557	0.00208539	tnr
ENSDARG000	-0.3115492	0.00342123	pcdh8
ENSDARG000	-0.3116572	0.00030404	tuba1
ENSDARG000	-0.3123072	0.00388039	far1
ENSDARG000	-0.313307	7.24E-05	mt-nd1
ENSDARG000	-0.3133329	3.83E-05	col11a1a
ENSDARG000	-0.3137217	0.00113094	cpz
ENSDARG000	-0.3146904	0.00025338	mdh1b
ENSDARG000	-0.3162101	8.38E-06	col6a3
ENSDARG000	-0.3174314	0.00069103	tyrp1b
ENSDARG000	-0.3174605	2.33E-05	hunk
ENSDARG000	-0.3177482	3.63E-06	neurod
ENSDARG000	-0.3182541	0.00249696	zgc:86841
ENSDARG000	-0.3191564	0.00056375	acana
ENSDARG000	-0.3194897	9.96E-05	tuba1l
ENSDARG000	-0.3195733	0.0027969	pdip5
ENSDARG000	-0.3207578	0.00012874	pcca
ENSDARG000	-0.3222964	0.00014367	myh14
ENSDARG000	-0.3233069	3.68E-07	cspg5a
ENSDARG000	-0.323723	0.00169111	GPR37 (2 of 2)
ENSDARG000	-0.3245485	2.54E-05	hnrnph1l
ENSDARG000	-0.3247004	0.00260721	s100t
ENSDARG000	-0.32514	7.99E-06	stm
ENSDARG000	-0.3266493	0.00069104	padi2
ENSDARG000	-0.3269809	3.44E-05	ptplb
ENSDARG000	-0.3273345	0.00114319	ATP5G2
ENSDARG000	-0.3280683	0.00125418	sat1a
ENSDARG000	-0.3290239	4.09E-05	HNRNPAB (2 of 2)
ENSDARG000	-0.3293548	9.46E-05	dcn
ENSDARG000	-0.3305526	0.00204063	hmgb3b
ENSDARG000	-0.3315318	4.39E-05	sgpl1
ENSDARG000	-0.3319762	0.00047635	col6a1
ENSDARG000	-0.3338498	0.00022164	syng1a
ENSDARG000	-0.3338766	0.00048954	SLC12A2 (6 of 6)

ENSDARG000	-0.3355425	0.0002617	adssl1
ENSDARG000	-0.3369608	0.00090099	gria3a
ENSDARG000	-0.3370785	1.23E-06	hmgb3a
ENSDARG000	-0.337289	0.00336696	tim10
ENSDARG000	-0.3373492	0.00076501	nfasca
ENSDARG000	-0.3374887	9.84E-05	rbb4
ENSDARG000	-0.3378068	6.35E-08	tfap2b
ENSDARG000	-0.3379851	7.20E-06	hmgb1a
ENSDARG000	-0.3386786	1.95E-05	sparc
ENSDARG000	-0.339132	5.21E-05	col1a2
ENSDARG000	-0.3392665	0.00334418	klf2a
ENSDARG000	-0.3403132	0.00045525	mrc1a
ENSDARG000	-0.3420247	0.0002454	lrrfip1b
ENSDARG000	-0.3430787	8.89E-06	mt-nd2
ENSDARG000	-0.3431978	0.00017489	scp2a
ENSDARG000	-0.3451095	8.19E-05	hm13
ENSDARG000	-0.3455356	0.00207407	rab3aa
ENSDARG000	-0.346154	0.00129542	col27a1a
ENSDARG000	-0.348094	0.00011799	rbpms2
ENSDARG000	-0.3485502	0.00063349	mt-nd3
ENSDARG000	-0.3486434	0.00020194	DCLK2 (3 of 3)
ENSDARG000	-0.3500862	4.99E-06	tiam1a
ENSDARG000	-0.3503121	0.00022693	fam65b
ENSDARG000	-0.3503888	0.00013411	EML6
ENSDARG000	-0.3519152	0.00277908	cdkl5
ENSDARG000	-0.3519185	1.54E-05	si:ch211-51e12.7
ENSDARG000	-0.3531669	0.00019749	dnajb11
ENSDARG000	-0.3532062	0.00037773	pdcd8
ENSDARG000	-0.3533813	2.80E-05	AL929007.1
ENSDARG000	-0.3534219	0.00090881	rnd1
ENSDARG000	-0.3536904	0.00211659	sparcl1
ENSDARG000	-0.3539346	0.0016906	ndufa11
ENSDARG000	-0.3548078	0.00098844	col8a1a
ENSDARG000	-0.3549166	0.00084741	STBD1
ENSDARG000	-0.3569644	0.0011579	efhd1
ENSDARG000	-0.3571023	0.00019442	crybb1
ENSDARG000	-0.3579972	0.003381	col5a3b
ENSDARG000	-0.3591654	0.00010712	rhbg
ENSDARG000	-0.3597462	0.00277953	ANPEP (4 of 5)
ENSDARG000	-0.3609113	2.73E-05	pax6b
ENSDARG000	-0.3620093	0.00147795	barhl1a

ENSDARG000	-0.362071	0.00042663	fap
ENSDARG000	-0.3624594	0.00187737	zgc:110329
ENSDARG000	-0.3626366	8.46E-07	pou4f2
ENSDARG000	-0.3632539	4.26E-05	hadhaa
ENSDARG000	-0.3634985	8.29E-05	KRT23 (12 of 15)
ENSDARG000	-0.3640509	0.00141328	lrrc39
ENSDARG000	-0.3643261	0.00067934	eny2
ENSDARG000	-0.364402	0.00047208	sephs1
ENSDARG000	-0.3652954	1.01E-05	slc25a4
ENSDARG000	-0.3656765	0.00103117	bbs2
ENSDARG000	-0.3676276	9.21E-05	mogs
ENSDARG000	-0.367825	1.25E-05	rbp1a
ENSDARG000	-0.3679124	0.00299188	agr2
ENSDARG000	-0.3682945	9.65E-06	scocb
ENSDARG000	-0.3684809	0.00030172	hapln1b
ENSDARG000	-0.3685794	0.00209105	ostc
ENSDARG000	-0.3699974	9.96E-06	NAT16
ENSDARG000	-0.3708697	0.00024684	hspa5
ENSDARG000	-0.3715964	2.81E-07	calrl
ENSDARG000	-0.3718057	1.12E-05	col1a1a
ENSDARG000	-0.3727828	3.15E-06	asph
ENSDARG000	-0.3744474	0.00016105	mipb
ENSDARG000	-0.3750797	0.00123474	uap1
ENSDARG000	-0.3750819	0.0005819	apex1
ENSDARG000	-0.3756069	3.67E-07	mt-atp6
ENSDARG000	-0.3776569	0.00010896	BX470254.2
ENSDARG000	-0.3776705	0.00010705	hsp90b1
ENSDARG000	-0.377731	7.20E-07	ivns1abpa
ENSDARG000	-0.3786645	0.00050327	PLEKHM1
ENSDARG000	-0.3789163	0.00341076	METAP2 (1 of 2)
ENSDARG000	-0.3789243	6.67E-07	pdzd2
ENSDARG000	-0.3807207	5.05E-05	txnl4a
ENSDARG000	-0.3815209	4.04E-07	sept5b
ENSDARG000	-0.3817475	2.82E-05	acta1b
ENSDARG000	-0.3831565	9.16E-05	psme3
ENSDARG000	-0.3832163	0.00035505	nr4a1
ENSDARG000	-0.3834133	0.0004133	six3b
ENSDARG000	-0.3834473	0.00022446	birc7
ENSDARG000	-0.383603	0.00070437	angptl3
ENSDARG000	-0.3836571	0.00238758	hebp2
ENSDARG000	-0.3857471	0.00370964	cdk2

ENSDARG000	-0.3858302	0.00025578	nae1
ENSDARG000	-0.3879628	0.00265188	fnbp1
ENSDARG000	-0.3881995	0.00010888	sema6d
ENSDARG000	-0.3882402	1.15E-05	myhz2
ENSDARG000	-0.3887454	0.00366726	ABCF3
ENSDARG000	-0.3902279	0.00388065	si:dkey-176g1.7
ENSDARG000	-0.3903335	7.85E-05	fam57ba
ENSDARG000	-0.3913016	2.47E-06	and1
ENSDARG000	-0.3917595	0.00036752	creld2
ENSDARG000	-0.3928049	8.76E-08	ccdc47
ENSDARG000	-0.393205	0.00019439	tfa
ENSDARG000	-0.3939628	0.00065307	GPR123 (2 of 3)
ENSDARG000	-0.3941596	1.72E-05	snap25b
ENSDARG000	-0.394966	0.00332437	sc:d0413
ENSDARG000	-0.3951245	0.00065134	NHS (1 of 2)
ENSDARG000	-0.3955543	1.19E-06	REPS2
ENSDARG000	-0.3956232	2.48E-05	ZNF784
ENSDARG000	-0.3970369	3.39E-05	sypb
ENSDARG000	-0.3991447	0.00052203	manf
ENSDARG000	-0.399709	0.00152798	TXNDC12
ENSDARG000	-0.3998346	0.00024799	hyou1
ENSDARG000	-0.3998545	4.97E-07	zgc:66479
ENSDARG000	-0.4000128	0.00181568	hp1t1
ENSDARG000	-0.4036383	1.29E-07	vsx1
ENSDARG000	-0.4038685	0.00122293	tgm2a
ENSDARG000	-0.4039733	3.75E-05	cmpk
ENSDARG000	-0.4042093	1.31E-05	grin1b
ENSDARG000	-0.4047852	2.78E-05	gpnmb
ENSDARG000	-0.405665	0.00310089	C18H11orf58
ENSDARG000	-0.4064083	1.78E-06	ptges3a
ENSDARG000	-0.4071053	6.18E-05	sod2
ENSDARG000	-0.4073886	0.00025491	BPMS2 (1 of 2)
ENSDARG000	-0.4084318	7.62E-06	srpr
ENSDARG000	-0.4095856	0.00017517	wfdc1
ENSDARG000	-0.4106793	2.74E-05	HSPA4L
ENSDARG000	-0.413785	0.00029953	myoz2b
ENSDARG000	-0.4138527	0.00110104	sec13
ENSDARG000	-0.4143155	0.00059156	slc2a15b
ENSDARG000	-0.415503	1.01E-05	pdia4
ENSDARG000	-0.4168027	0.00125934	ATP6AP1L (1 of 2)
ENSDARG000	-0.4184296	0.00092955	snrpb

ENSDARG000	-0.4190388	0.00053753	tmem147
ENSDARG000	-0.4198638	3.68E-06	ptprdb
ENSDARG000	-0.4215369	0.00309828	PCDH8
ENSDARG000	-0.4250731	5.26E-06	zgc:158659
ENSDARG000	-0.4258367	0.00206306	igsf21a
ENSDARG000	-0.4266922	9.98E-05	crygn2
ENSDARG000	-0.4271212	0.0004613	ACSL6
ENSDARG000	-0.4280798	1.38E-07	mipa
ENSDARG000	-0.4285978	0.00205693	zcrb1
ENSDARG000	-0.4287627	1.21E-05	col7a1l
ENSDARG000	-0.4297554	7.64E-06	papss1
ENSDARG000	-0.4299554	0.00274884	htra1a
ENSDARG000	-0.4302595	2.10E-06	pfkma
ENSDARG000	-0.4326927	4.63E-06	igfbp2a
ENSDARG000	-0.4348552	0.00186612	tuft1b
ENSDARG000	-0.4349735	4.90E-10	tuba1l2
ENSDARG000	-0.4354258	2.22E-06	si:ch73-46j18.5
ENSDARG000	-0.4370115	0.0033282	FAM160A1 (2 of 2)
ENSDARG000	-0.4376174	0.00156627	hint1
ENSDARG000	-0.4388624	6.44E-08	GPAM
ENSDARG000	-0.4395806	0.00322144	wdr17
ENSDARG000	-0.4404638	5.99E-06	agt
ENSDARG000	-0.4424932	1.65E-07	CABZ01074130.1
ENSDARG000	-0.4426911	7.02E-07	nmrk2
ENSDARG000	-0.443418	9.57E-07	pgam2
ENSDARG000	-0.4438883	2.65E-05	pkhd1l1
ENSDARG000	-0.4439637	0.00356354	XPO5
ENSDARG000	-0.4474175	4.13E-05	plch2a
ENSDARG000	-0.447574	4.13E-05	paqr6
ENSDARG000	-0.4494746	4.30E-08	zgc:63663
ENSDARG000	-0.4502954	0.0019163	metap2a
ENSDARG000	-0.4503659	3.55E-09	ckbb
ENSDARG000	-0.4511177	8.40E-05	krt15
ENSDARG000	-0.4518204	0.00094682	zgc:193504
ENSDARG000	-0.4532131	0.00252852	NEURL2
ENSDARG000	-0.4542419	4.20E-07	tefb
ENSDARG000	-0.4550444	0.00015496	MYOM3
ENSDARG000	-0.457005	0.00018199	atp2a2a
ENSDARG000	-0.4574236	3.23E-07	bfsp2
ENSDARG000	-0.4587963	0.00017209	EML5
ENSDARG000	-0.4595688	0.00023456	pcbp3

ENSDARG000	-0.459612	0.00020709	ost4
ENSDARG000	-0.4602491	0.00362362	hbae1
ENSDARG000	-0.4607636	0.00147554	dyrk4
ENSDARG000	-0.4610751	5.22E-08	ch1073-291c23.1
ENSDARG000	-0.462527	1.38E-05	gpib
ENSDARG000	-0.463589	0.00272008	zgc:158328
ENSDARG000	-0.4641315	3.54E-05	EEF1E1
ENSDARG000	-0.4641465	0.00114528	pik3r3a
ENSDARG000	-0.4647283	2.06E-05	CABZ01084815.1
ENSDARG000	-0.4658797	0.00156365	hbbe2
ENSDARG000	-0.4669267	0.00037917	NOL4 (2 of 2)
ENSDARG000	-0.4670734	2.69E-06	-
ENSDARG000	-0.467381	0.00017487	dgkza
ENSDARG000	-0.4676586	6.95E-06	rhot1a
ENSDARG000	-0.4686789	0.00102472	GFPT1 (2 of 2)
ENSDARG000	-0.4689342	6.68E-06	foxg1b
ENSDARG000	-0.4719758	0.00228014	ppp2r2ba
ENSDARG000	-0.4721434	0.00208201	fkbp11
ENSDARG000	-0.4724762	0.00236585	si:dkey-117n7.4
ENSDARG000	-0.4725484	4.91E-05	wu:fb15e04
ENSDARG000	-0.4726921	5.25E-06	pdgfrl
ENSDARG000	-0.4732761	0.00112902	rab11al
ENSDARG000	-0.4749022	0.00051231	ssh1b
ENSDARG000	-0.4757539	0.00109589	rdh8a
ENSDARG000	-0.4759261	3.96E-05	ddx26b
ENSDARG000	-0.4765153	4.46E-06	FGFBP2 (1 of 2)
ENSDARG000	-0.4791694	0.00019155	cox5ab
ENSDARG000	-0.4795682	6.63E-06	tmem183a
ENSDARG000	-0.4823804	6.45E-07	zgc:110053
ENSDARG000	-0.4842144	1.83E-09	rorab
ENSDARG000	-0.4848939	8.23E-09	cryba1b
ENSDARG000	-0.48616	0.00021052	gcat
ENSDARG000	-0.486416	3.97E-06	pnp4a
ENSDARG000	-0.4864343	7.01E-09	APOB (1 of 3)
ENSDARG000	-0.4868004	0.00351217	b3gat1
ENSDARG000	-0.4868903	2.05E-06	cryaa
ENSDARG000	-0.4885811	6.57E-07	crmp1
ENSDARG000	-0.4892077	0.00240875	hells
ENSDARG000	-0.4897487	1.33E-09	mpp6b
ENSDARG000	-0.4903604	1.39E-07	hlfa
ENSDARG000	-0.4967673	2.34E-06	adss

ENSDARG000	-0.4972899	0.00010233	ephb2a
ENSDARG000	-0.4977006	0.00040492	ptpn11b
ENSDARG000	-0.4981171	6.69E-08	crybb11
ENSDARG000	-0.4984524	1.11E-07	cycsb
ENSDARG000	-0.5053308	0.00258262	PCYOX1L (1 of 2)
ENSDARG000	-0.5065869	0.00223553	ttl11
ENSDARG000	-0.5072002	6.98E-07	calb2a
ENSDARG000	-0.5088727	7.02E-06	PCBP3 (2 of 2)
ENSDARG000	-0.5089297	1.05E-07	rtn2a
ENSDARG000	-0.5095842	0.00097992	smn1
ENSDARG000	-0.5109228	4.33E-05	cuedc1a
ENSDARG000	-0.5118176	0.0020009	phkg1b
ENSDARG000	-0.514064	1.77E-06	PPP1R3A (2 of 2)
ENSDARG000	-0.5148104	4.61E-07	si:ch211-212n6.17
ENSDARG000	-0.5157027	0.00137878	postna
ENSDARG000	-0.5161521	0.00019518	abcf2a
ENSDARG000	-0.5183755	0.00138472	camkvl
ENSDARG000	-0.5218317	0.00062118	angptl1
ENSDARG000	-0.5225489	0.00012239	E2F2
ENSDARG000	-0.5243713	0.00304779	msnb
ENSDARG000	-0.5248727	2.90E-06	slc4a1a
ENSDARG000	-0.527851	3.42E-06	six6b
ENSDARG000	-0.5305693	6.99E-05	klf3
ENSDARG000	-0.5356687	1.68E-06	nfixb
ENSDARG000	-0.5357329	1.38E-15	tubb5
ENSDARG000	-0.5383479	8.17E-05	rps6kb1a
ENSDARG000	-0.53907	0.00040225	-
ENSDARG000	-0.5409679	0.00338744	CU929159.1
ENSDARG000	-0.5445239	8.52E-07	hmgcs1
ENSDARG000	-0.5445265	5.14E-07	calb2b
ENSDARG000	-0.5452695	1.84E-05	phf5a
ENSDARG000	-0.5455805	1.16E-05	KRTCAP2
ENSDARG000	-0.5489885	1.01E-08	fabp7a
ENSDARG000	-0.5500865	0.00342894	lsm7
ENSDARG000	-0.5512696	2.13E-05	dbpa
ENSDARG000	-0.5513794	2.82E-05	zgc:113054
ENSDARG000	-0.5531	1.53E-05	rnpep
ENSDARG000	-0.5534937	0.00085512	myl9a
ENSDARG000	-0.5537328	0.00180108	CABZ01081148.1
ENSDARG000	-0.5551022	3.99E-10	anp32e
ENSDARG000	-0.5573158	2.60E-06	uchl3

ENSDARG000	-0.5602833	5.19E-05	cd9a
ENSDARG000	-0.5605562	0.00359931	GUSB (2 of 2)
ENSDARG000	-0.5626612	1.99E-06	tfap2e
ENSDARG000	-0.5634003	2.19E-06	bhlhe23
ENSDARG000	-0.564041	0.00325132	SHANK2 (2 of 2)
ENSDARG000	-0.5645155	5.49E-05	sc5dl
ENSDARG000	-0.5655376	2.94E-07	PPP1R14C (1 of 2)
ENSDARG000	-0.5673428	6.62E-05	tfr1a
ENSDARG000	-0.5712032	5.68E-11	myhz1.3
ENSDARG000	-0.575471	0.00013174	slc2a2
ENSDARG000	-0.5762005	8.89E-05	rbp2a
ENSDARG000	-0.5771545	1.62E-06	lgsn
ENSDARG000	-0.5779772	0.001434	rc3h2
ENSDARG000	-0.5797636	0.00090527	CNTNAP1
ENSDARG000	-0.5831541	9.11E-07	KRT23 (9 of 15)
ENSDARG000	-0.583652	0.00334766	tmem163b
ENSDARG000	-0.5857124	3.15E-08	crygm2d1
ENSDARG000	-0.5862373	0.0002749	ACLY
ENSDARG000	-0.5874846	8.05E-05	YAE1D1
ENSDARG000	-0.5885512	6.20E-10	cahz
ENSDARG000	-0.5885928	9.22E-08	cryba4
ENSDARG000	-0.5894229	0.00244444	otc
ENSDARG000	-0.5928236	0.00111804	si:ch211-212n6.18
ENSDARG000	-0.5939948	2.89E-05	zgc:194131
ENSDARG000	-0.5976027	2.52E-05	rx1
ENSDARG000	-0.5976423	7.39E-14	vcanb
ENSDARG000	-0.5983075	4.68E-11	gnao1b
ENSDARG000	-0.5983276	6.49E-05	zgc:77375
ENSDARG000	-0.6003689	1.14E-06	si:ch73-96b22.1
ENSDARG000	-0.6020225	0.00082488	C19H7orf41
ENSDARG000	-0.6099324	2.31E-07	rgl3a
ENSDARG000	-0.611829	1.04E-10	zgc:136930
ENSDARG000	-0.6135844	8.78E-05	arhgap20
ENSDARG000	-0.6141404	0.00109171	HPX (1 of 2)
ENSDARG000	-0.6142737	2.37E-12	bcl2l13
ENSDARG000	-0.6151929	1.36E-06	mat1a
ENSDARG000	-0.6181242	2.90E-06	defbl1
ENSDARG000	-0.618211	0.00025133	FAT1 (2 of 2)
ENSDARG000	-0.6182547	0.00279235	RELL2
ENSDARG000	-0.6218886	0.00365369	CABZ01058371.1
ENSDARG000	-0.6220254	1.45E-10	cryba1l

ENSDARG000	-0.6259701	0.00016071	BX548021.3
ENSDARG000	-0.6260063	4.39E-07	sdf2l1
ENSDARG000	-0.6260586	0.00231502	CAMKV (1 of 2)
ENSDARG000	-0.6266475	0.00207334	dazap1
ENSDARG000	-0.6277718	4.19E-05	dnajc3
ENSDARG000	-0.6283251	6.05E-05	ampd3a
ENSDARG000	-0.6291922	1.60E-16	cryba2a
ENSDARG000	-0.629463	3.18E-05	rd3
ENSDARG000	-0.6324921	6.02E-06	rgn
ENSDARG000	-0.6327943	0.00380307	tmc1
ENSDARG000	-0.6332398	2.15E-13	pmelb
ENSDARG000	-0.6332409	0.00027461	hoxc12a
ENSDARG000	-0.6338697	0.00249921	FOXRED1
ENSDARG000	-0.6343798	1.42E-06	si:dkey-125i10.3
ENSDARG000	-0.6364439	1.06E-14	rbp2b
ENSDARG000	-0.6375217	2.10E-06	epb41b
ENSDARG000	-0.637943	1.34E-06	zgc:161979
ENSDARG000	-0.6389062	7.62E-11	TKT
ENSDARG000	-0.6415733	1.71E-07	PROCA1
ENSDARG000	-0.6454564	0.00042946	zwilch
ENSDARG000	-0.6478757	2.99E-13	COL4A6
ENSDARG000	-0.6486714	2.73E-05	col4a4
ENSDARG000	-0.651481	3.14E-07	gadd45g
ENSDARG000	-0.6531836	9.96E-06	hif1a12
ENSDARG000	-0.6535627	5.67E-15	col17a1a
ENSDARG000	-0.6539404	0.00051646	ANKS1A (2 of 2)
ENSDARG000	-0.6547381	2.40E-06	grma
ENSDARG000	-0.6549797	0.00027794	mid1
ENSDARG000	-0.6606555	0.00024134	slc16a12b
ENSDARG000	-0.6649943	8.89E-06	heg
ENSDARG000	-0.6664675	0.00362663	has3
ENSDARG000	-0.6666727	0.00174679	KCTD20
ENSDARG000	-0.6697394	9.94E-11	slc37a4b
ENSDARG000	-0.6708052	1.12E-26	ca2
ENSDARG000	-0.6750929	9.19E-05	sez6a
ENSDARG000	-0.6762138	1.50E-06	pcp4l1
ENSDARG000	-0.6768764	2.33E-12	kera
ENSDARG000	-0.6770822	0.00158896	hdr
ENSDARG000	-0.6772912	0.00065616	tmem41ab
ENSDARG000	-0.6838708	7.16E-06	grin2ab
ENSDARG000	-0.6870734	0.00189489	chrna6

ENSDARG000	-0.6890673	0.00041235	GABRR1 (1 of 2)
ENSDARG000	-0.6926393	0.00038757	ccdc64
ENSDARG000	-0.6952489	5.74E-08	chchd10
ENSDARG000	-0.6982829	3.20E-06	palmda
ENSDARG000	-0.6983936	0.00162736	acp5a
ENSDARG000	-0.6997728	1.54E-09	nr1d2a
ENSDARG000	-0.7070326	5.60E-05	CSGALNACT1 (1 of 2)
ENSDARG000	-0.7071823	5.13E-05	galnt13
ENSDARG000	-0.7080109	2.10E-08	ADK (2 of 2)
ENSDARG000	-0.7086308	2.27E-06	sv2b
ENSDARG000	-0.7093206	4.24E-09	C24H16orf11
ENSDARG000	-0.7093641	6.89E-18	crx
ENSDARG000	-0.7109327	1.33E-10	si:ch211-212n6.8
ENSDARG000	-0.7130395	2.31E-06	dgat2
ENSDARG000	-0.7134474	0.00026911	HBM
ENSDARG000	-0.7146292	0.00332721	igsf21b
ENSDARG000	-0.7198424	2.12E-09	cntn1b
ENSDARG000	-0.7207794	1.33E-14	anxa1b
ENSDARG000	-0.7210161	1.01E-08	fbp2
ENSDARG000	-0.7233075	3.30E-08	rho
ENSDARG000	-0.7241416	1.79E-05	mt2
ENSDARG000	-0.7250658	5.19E-05	zgc:112992
ENSDARG000	-0.7278871	5.31E-13	si:ch211-212n6.16
ENSDARG000	-0.7283604	3.12E-08	fabp11b
ENSDARG000	-0.7300848	4.97E-06	si:busm1-118j2.5
ENSDARG000	-0.731864	0.00180402	ARHGAP9
ENSDARG000	-0.7334234	0.00020051	mettl11b
ENSDARG000	-0.7351791	2.25E-12	and2
ENSDARG000	-0.7439603	0.0010152	wnt3
ENSDARG000	-0.7445026	0.00034483	slco2a1
ENSDARG000	-0.7507585	1.51E-08	prom1b
ENSDARG000	-0.7507694	7.70E-06	caspb
ENSDARG000	-0.753891	1.45E-08	crygmxl2
ENSDARG000	-0.7570359	0.00263856	irbp
ENSDARG000	-0.7574923	0.00083627	SQLE (1 of 2)
ENSDARG000	-0.7607827	4.83E-07	cyp51
ENSDARG000	-0.763428	0.00031786	camk1gb
ENSDARG000	-0.7667557	0.00341423	mylk4
ENSDARG000	-0.7687082	0.00088111	soat2
ENSDARG000	-0.7730796	1.76E-08	apod
ENSDARG000	-0.7765578	3.82E-15	desi1a

ENSDARG000	-0.776844	3.02E-10	si:dkey-162b23.4
ENSDARG000	-0.7799278	0.00065988	CU896655.3
ENSDARG000	-0.781388	0.00028331	RCVRN (1 of 2)
ENSDARG000	-0.7814568	7.71E-12	MYLK4 (1 of 2)
ENSDARG000	-0.7820547	0.00209537	p2rx3a
ENSDARG000	-0.7836201	1.71E-09	alas2
ENSDARG000	-0.7891168	0.00024066	si:dkeyp-35f12.3
ENSDARG000	-0.7974981	5.25E-15	aglb
ENSDARG000	-0.8018027	8.77E-05	ADAMTS15 (2 of 2)
ENSDARG000	-0.8039993	4.63E-09	cx44.1
ENSDARG000	-0.808869	0.00032831	ankrd33ba
ENSDARG000	-0.8092298	0.00016066	TUBB1
ENSDARG000	-0.8114083	1.96E-05	SLC46A3 (1 of 2)
ENSDARG000	-0.8132223	5.77E-11	BX957322.1
ENSDARG000	-0.8167242	3.48E-05	AGL (3 of 3)
ENSDARG000	-0.8206799	0.00181203	fads2
ENSDARG000	-0.8216649	1.52E-10	crygm2d4
ENSDARG000	-0.8236614	1.86E-06	kcnb2
ENSDARG000	-0.8307245	5.36E-07	im:7154842
ENSDARG000	-0.8323599	5.22E-12	hbbe1.1
ENSDARG000	-0.8334166	0.00177795	rhd
ENSDARG000	-0.8335144	0.0015446	colm
ENSDARG000	-0.8354907	3.50E-09	hbbe1.1
ENSDARG000	-0.838021	0.002788	asb12b
ENSDARG000	-0.8411972	1.92E-05	GRIK1 (1 of 2)
ENSDARG000	-0.8441434	0.00028914	SBK2
ENSDARG000	-0.8547003	2.60E-08	aqp8a.1
ENSDARG000	-0.8585487	0.00129239	per1a
ENSDARG000	-0.8586026	5.65E-06	pou4f3
ENSDARG000	-0.8597832	5.79E-05	oraov1
ENSDARG000	-0.8601197	0.00048656	TRIM35 (1 of 41)
ENSDARG000	-0.8636008	0.00095609	hoxc12b
ENSDARG000	-0.8641579	0.000103	BTBD17 (2 of 2)
ENSDARG000	-0.8646899	4.49E-05	zgc:109949
ENSDARG000	-0.8657587	2.68E-06	nmt1b
ENSDARG000	-0.869068	5.01E-10	sagb
ENSDARG000	-0.874584	4.54E-10	hbae3
ENSDARG000	-0.8773408	0.00362429	SOX8 (2 of 2)
ENSDARG000	-0.8793499	0.00272746	MEF2A
ENSDARG000	-0.8800193	0.00182338	ca7
ENSDARG000	-0.8976688	0.00233456	zgc:165604

ENSDARG000	-0.9058512	0.00025181	c1qtnf6a
ENSDARG000	-0.9069543	2.26E-18	crygm2d13
ENSDARG000	-0.9119437	7.49E-10	nfil3-6
ENSDARG000	-0.9213796	6.49E-15	entpd3
ENSDARG000	-0.9217538	5.31E-12	crygm2d3
ENSDARG000	-0.924901	0.00132999	gls2
ENSDARG000	-0.9315054	2.95E-19	ahr1b
ENSDARG000	-0.9340904	8.79E-11	thbs4a
ENSDARG000	-0.9418817	5.60E-06	rgra
ENSDARG000	-0.9532504	2.62E-06	crybb1l3
ENSDARG000	-0.9546133	1.59E-05	abhd5
ENSDARG000	-0.9549236	0.00025844	STK39
ENSDARG000	-0.9589274	6.19E-06	gngt2a
ENSDARG000	-0.9685585	3.79E-12	krt1-19d
ENSDARG000	-0.9686623	2.41E-12	atp1b2b
ENSDARG000	-0.9734459	2.06E-06	crygm2d5
ENSDARG000	-0.9744269	2.68E-11	crygm2d12
ENSDARG000	-0.9746323	0.00085746	tmx2a
ENSDARG000	-0.9773065	0.00018452	phkg1a
ENSDARG000	-0.9803823	7.79E-06	si:ch211-89o9.4
ENSDARG000	-0.9865447	1.41E-11	tnxb
ENSDARG000	-0.9893661	6.84E-08	stk25a
ENSDARG000	-0.9924113	9.03E-09	rlbp1b
ENSDARG000	-0.9940307	2.18E-07	cacna1f
ENSDARG000	-0.9948891	4.54E-05	WASF3 (2 of 2)
ENSDARG000	-1.0004088	7.70E-07	matn1
ENSDARG000	-1.0130658	1.42E-18	syt5b
ENSDARG000	-1.0134478	0.00228502	zgc:162171
ENSDARG000	-1.0148685	0.00082261	CT573287.1
ENSDARG000	-1.0207536	0.00083932	SCAMP5 (2 of 2)
ENSDARG000	-1.0211903	0.00010823	ttc36
ENSDARG000	-1.0221019	0.00321619	PARP6 (3 of 4)
ENSDARG000	-1.0262316	2.25E-05	myo7ab
ENSDARG000	-1.0274736	2.94E-18	rx2
ENSDARG000	-1.0299735	4.40E-06	ARID5A (2 of 2)
ENSDARG000	-1.0301227	2.44E-36	gng13b
ENSDARG000	-1.0318753	5.92E-05	slc1a8a
ENSDARG000	-1.0327972	9.27E-07	C9HXorf36
ENSDARG000	-1.0373856	2.50E-05	fgl2
ENSDARG000	-1.0379732	7.47E-10	lppr4b
ENSDARG000	-1.0419549	1.10E-12	CR385063.1

ENSDARG000	-1.0505083	2.61E-05	AL844567.2
ENSDARG000	-1.0533477	3.22E-19	CCDC88A
ENSDARG000	-1.0572042	5.38E-07	rgs2
ENSDARG000	-1.0612312	2.06E-05	mylipb
ENSDARG000	-1.063985	1.51E-05	zgc:122979
ENSDARG000	-1.0666297	0.0034071	TMEM132A
ENSDARG000	-1.0677541	1.45E-19	si:ch211-250g4.3
ENSDARG000	-1.0763994	1.99E-06	fhl2b
ENSDARG000	-1.0765831	2.30E-09	si:ch211-13k12.1
ENSDARG000	-1.0770907	2.15E-05	si:dkey-98p3.7
ENSDARG000	-1.0773293	0.00349716	CABZ01100278.1
ENSDARG000	-1.0813753	1.51E-14	zgc:162402
ENSDARG000	-1.0900531	0.00299182	nrn1lb
ENSDARG000	-1.0926903	8.81E-22	gnb3a
ENSDARG000	-1.0981575	3.68E-08	CGREF1
ENSDARG000	-1.0983148	2.09E-05	FAIM2
ENSDARG000	-1.0986226	4.48E-08	si:dkey-283b15.2
ENSDARG000	-1.0996641	0.00027226	zgc:153441
ENSDARG000	-1.110315	3.55E-09	cnrip1b
ENSDARG000	-1.118127	0.00080238	kcnv2b
ENSDARG000	-1.1221968	9.27E-09	cx50.5
ENSDARG000	-1.1227122	9.40E-06	klf9
ENSDARG000	-1.1237127	0.00044363	snx19a
ENSDARG000	-1.128741	2.75E-32	mb
ENSDARG000	-1.1307259	0.00057249	CECR5
ENSDARG000	-1.1340747	0.00369087	EIF3BB
ENSDARG000	-1.1366323	5.69E-07	GABRR3 (1 of 2)
ENSDARG000	-1.1395473	2.92E-18	STX3 (2 of 2)
ENSDARG000	-1.1442598	2.82E-18	slc30a8
ENSDARG000	-1.1499933	1.10E-06	arhgap23
ENSDARG000	-1.1532249	4.86E-11	wu:fa03e10
ENSDARG000	-1.1659906	2.54E-06	CRYGB
ENSDARG000	-1.1690298	2.28E-06	trim35-27
ENSDARG000	-1.1700742	0.00163336	pcdh2g7
ENSDARG000	-1.1704786	1.74E-23	CR854881.1
ENSDARG000	-1.1745237	0.00283709	SLC35A3 (2 of 2)
ENSDARG000	-1.1764739	8.24E-06	gnat1
ENSDARG000	-1.1795796	2.34E-06	klc3
ENSDARG000	-1.182136	7.25E-08	zdhhc23a
ENSDARG000	-1.1864058	7.10E-05	SLC4A5 (1 of 2)
ENSDARG000	-1.1901494	1.23E-26	atp2b1b

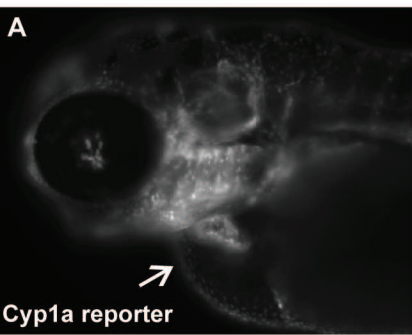
ENSDARG000	-1.19395	0.0015281	AL844587.2
ENSDARG000	-1.1964724	0.00072322	mpp4a
ENSDARG000	-1.2049769	2.16E-06	CABZ01059415.2
ENSDARG000	-1.2152038	0.00011171	zgc:63972
ENSDARG000	-1.2174209	0.00219862	cpne4
ENSDARG000	-1.2178854	2.70E-14	RPGRIP1
ENSDARG000	-1.2301494	0.00196615	TMEM87B (2 of 2)
ENSDARG000	-1.2321336	8.94E-05	grifin
ENSDARG000	-1.2326827	1.80E-16	ABCA4 (1 of 2)
ENSDARG000	-1.2410484	0.00095421	rom1b
ENSDARG000	-1.2420153	6.99E-05	RIC3 (2 of 2)
ENSDARG000	-1.2441545	1.08E-08	prph2l
ENSDARG000	-1.2462161	0.00193359	CU638695.1
ENSDARG000	-1.2503647	1.54E-05	rrh
ENSDARG000	-1.261116	6.97E-20	rlbp1a
ENSDARG000	-1.2655857	2.96E-14	zgc:86723
ENSDARG000	-1.2662486	1.60E-19	agxt2l1
ENSDARG000	-1.2673672	8.65E-31	crygm2d6
ENSDARG000	-1.2708549	0.00013688	CU633486.1
ENSDARG000	-1.3031642	0.00376019	ankmy2b
ENSDARG000	-1.3032243	0.00192541	gnb3b
ENSDARG000	-1.3044542	3.61E-10	glmnb
ENSDARG000	-1.3065859	7.91E-10	arl13a
ENSDARG000	-1.3148679	0.00103574	si:ch211-173n18.3
ENSDARG000	-1.3242379	0.00064878	INHBE
ENSDARG000	-1.3255475	7.15E-08	RP1 (2 of 2)
ENSDARG000	-1.3264596	2.62E-32	crygm2d7
ENSDARG000	-1.3286793	1.16E-07	cnga3a
ENSDARG000	-1.3305767	3.24E-08	arl3l1
ENSDARG000	-1.3318333	0.00240392	CU210890.3
ENSDARG000	-1.33348	8.81E-05	CACNA2D3 (2 of 2)
ENSDARG000	-1.3358009	0.000593	faimb
ENSDARG000	-1.3525064	0.00015967	ptgdsa
ENSDARG000	-1.3625193	9.73E-05	RNF182
ENSDARG000	-1.367707	1.47E-05	slc1a7a
ENSDARG000	-1.3733666	7.17E-37	crygm2d8
ENSDARG000	-1.390334	1.87E-07	-
ENSDARG000	-1.3985443	2.51E-22	ankrd1b
ENSDARG000	-1.4089707	0.00024257	slc25a3a
ENSDARG000	-1.4144867	1.38E-21	elovl4b
ENSDARG000	-1.4314133	2.04E-11	TULP2

ENSDARG000	-1.4425744	0.0009357	oaz2b
ENSDARG000	-1.4450913	0.00015109	cyp2r1
ENSDARG000	-1.4556257	0.00180215	FGFBP1 (1 of 2)
ENSDARG000	-1.4690458	8.38E-05	fkbp5
ENSDARG000	-1.475936	2.77E-05	pnp4b
ENSDARG000	-1.482203	2.52E-12	crygm2d9
ENSDARG000	-1.5082133	0.00255797	SLC1A7 (2 of 2)
ENSDARG000	-1.5152741	0.00042836	CR388002.2
ENSDARG000	-1.5163547	8.08E-08	zgc:103681
ENSDARG000	-1.51831	0.00242332	pde6h
ENSDARG000	-1.5382538	4.01E-32	rcv1
ENSDARG000	-1.5415108	1.57E-29	rpe65a
ENSDARG000	-1.5462775	4.59E-19	zgc:109965
ENSDARG000	-1.5747362	1.43E-05	si:dkey-206f10.1
ENSDARG000	-1.588979	1.79E-06	EGFLAM
ENSDARG000	-1.5911909	1.17E-06	lactbl1a
ENSDARG000	-1.5923791	4.52E-12	uox
ENSDARG000	-1.6100556	7.97E-11	C17H2orf71
ENSDARG000	-1.6162862	1.99E-28	crygm2d15
ENSDARG000	-1.6339986	0.00039023	CABP2 (1 of 2)
ENSDARG000	-1.6565831	1.02E-31	-
ENSDARG000	-1.6658069	0.00057459	AC024175.23
ENSDARG000	-1.6660864	0.00034735	crygm2f
ENSDARG000	-1.7476752	3.04E-20	tmx3
ENSDARG000	-1.7543427	3.05E-35	arr3a
ENSDARG000	-1.7676372	2.96E-06	si:dkey-91f15.1
ENSDARG000	-1.777364	3.70E-32	ptprb
ENSDARG000	-1.7815528	1.22E-06	slc17a7
ENSDARG000	-1.7910777	2.46E-08	zgc:136220
ENSDARG000	-1.799634	1.08E-11	ponzr3
ENSDARG000	-1.8105398	0.00072347	IMPG2 (3 of 3)
ENSDARG000	-1.8121468	1.97E-25	rcvrna
ENSDARG000	-1.8582797	3.01E-23	SV2B (3 of 3)
ENSDARG000	-1.8665987	0.00089597	pmchl
ENSDARG000	-1.8759344	3.01E-10	zgc:103625
ENSDARG000	-1.9133263	2.09E-40	crygm2d14
ENSDARG000	-1.9227132	7.70E-06	CNGB3 (1 of 2)
ENSDARG000	-1.9361181	4.88E-15	ponzr4
ENSDARG000	-1.9594464	0.0002308	cacna2d4b
ENSDARG000	-1.9608528	1.66E-10	PHKA1 (1 of 2)
ENSDARG000	-1.9660037	5.59E-26	CKMT2 (1 of 2)

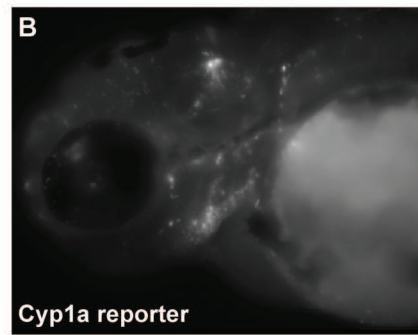
ENSDARG000	-1.971266	5.68E-05	aqp9b
ENSDARG000	-2.0376756	6.54E-50	si:ch211-55g3.6
ENSDARG000	-2.0433417	0.0001194	gck
ENSDARG000	-2.0602061	4.49E-27	zgc:165347
ENSDARG000	-2.1620494	1.33E-33	rs1
ENSDARG000	-2.2557556	8.58E-14	cacna2d4a
ENSDARG000	-2.4585987	1.71E-12	opn1sw1
ENSDARG000	-2.6149514	3.62E-07	opn1sw2
ENSDARG000	-2.7911519	2.75E-17	guk1b
ENSDARG000	-2.7984535	3.33E-55	si:ch211-255g12.6
ENSDARG000	-3.0047206	4.60E-06	abcb11b
ENSDARG000	-3.2925062	1.36E-60	crygm2d11
ENSDARG000	-3.343206	4.56E-43	opn1lw2
ENSDARG000	-3.7816483	3.09E-18	gngt2b
ENSDARG000	-6.8057012	3.95E-07	BX296557.5
ENSDARG000	-7.2079593	0.0005651	BX537263.8

ENSDARG00000087	-2.3158082	4.42E-13	c3b
ENSDARG00000028	-2.3318162	5.57E-07	si:ch211-173n18.3
ENSDARG00000075	-2.337136	0.001488	bicc2
ENSDARG00000041	-2.4108263	2.84E-06	cx32.3
ENSDARG00000007	-2.5447301	6.69E-21	uox
ENSDARG00000068	-2.7416148	4.42E-06	gck
ENSDARG00000094	-2.8262181	0.00013365	si:dkey-201c13.2
ENSDARG00000030	-3.037804	3.88E-16	PHKA1 (1 of 2)
ENSDARG00000068	-3.1653791	2.92E-22	klf9
ENSDARG00000088	-3.3757883	1.87E-29	ponzr3
ENSDARG00000003	-3.5868032	9.17E-10	rhcga
ENSDARG00000087	-4.0682499	3.27E-44	ponzr4
ENSDARG00000028	-4.1165788	5.48E-22	fkbp5
ENSDARG00000090	-6.3429783	8.39E-07	zgc:123103
ENSDARG00000086	-7.6882939	5.60E-06	si:dkey-92c21.3
ENSDARG00000090	-8.4199388	2.19E-08	BX296557.5

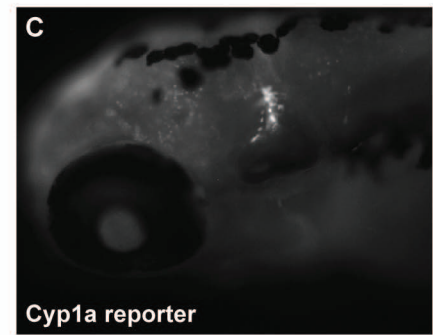
7,12-B[a]AQ



BEZO



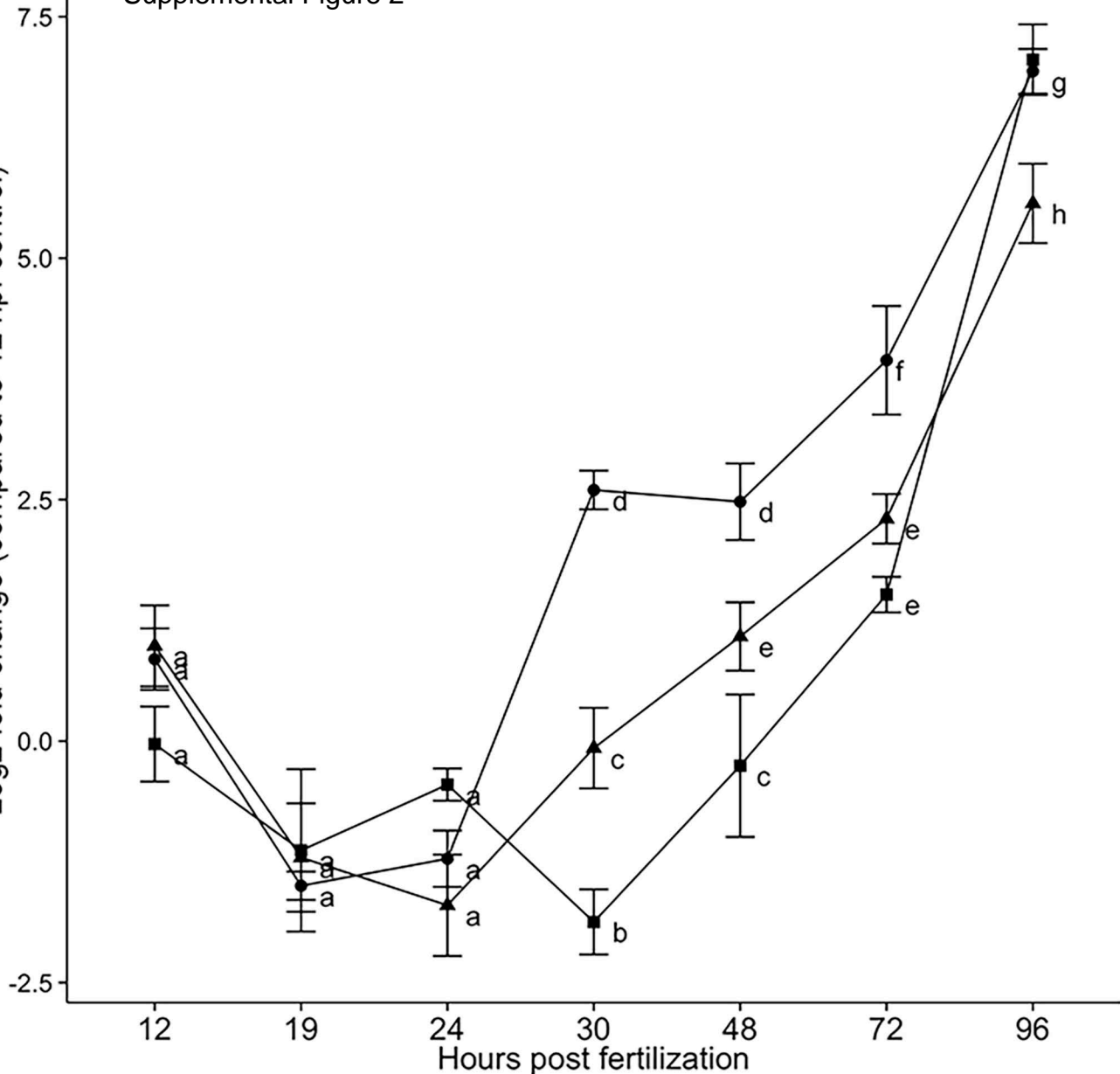
Control



Supplemental Figure 1

Supplemental Figure 2

Log2 fold change (compared to 12 hpf control)



Treatment
● 7,12-B[a]AQ
▲ BEZO
■ Control