

Table S4. List of differentially expressed genes with metformin in fetal sheep hepatocytes.

ENSEMBL GENE ID	Symbol	Basal Mean	Metformin Mean	Linear fold-change	P-value	Q-value
ENSOARG000000018142	LMNB1	23.13	9.44	-2.45	4.32E-06	0.012881
ENSOARG000000008185	PRIM1	11.43	4.28	-2.67	6.25E-06	0.012881
ENSOARG000000007840	BHLHE40	81.18	124.76	1.54	2.68E-05	0.020709
ENSOARG000000012666	JARID2	9.15	14.6	1.6	3.54E-05	0.020709
ENSOARG000000008388	KDM4B	21.75	37.58	1.73	1.96E-05	0.020709
ENSOARG000000017235	KLHL4	12.33	6.63	-1.86	1.86E-05	0.020709
ENSOARG000000015337	LOC101109035	48.96	19.6	-2.5	3.41E-05	0.020709
ENSOARG000000002475	PEG10	2611.81	511.18	-5.11	2.63E-05	0.020709
ENSOARG000000018913	RNF128	253.48	120.26	-2.11	4.35E-05	0.020709
ENSOARG000000006548	SLC22A7	43.95	4.77	-9.21	3.98E-05	0.020709
ENSOARG000000014581	TCIRG1	78.32	316.34	4.04	4.29E-05	0.020709
ENSOARG000000018440	LRRN4	11.67	1.9	-6.14	5.21E-05	0.021592
ENSOARG000000017753	-	21.93	8.46	-2.59	8.23E-05	0.021898
ENSOARG000000010045	AKR1D1	21.14	2.28	-9.27	7.30E-05	0.021898
ENSOARG000000004271	CLSTN3	107.75	57.05	-1.89	7.73E-05	0.021898
ENSOARG000000016710	GJB1	204.58	42.72	-4.79	6.23E-05	0.021898
ENSOARG000000000483	NFKB2	48.46	78.29	1.62	7.76E-05	0.021898
ENSOARG000000009154	STAT2	67.17	35.45	-1.89	8.50E-05	0.021898
ENSOARG000000010970	KLHL36	15.37	45.14	2.94	9.67E-05	0.022555
ENSOARG000000014888	LECT2	313.76	85.5	-3.67	9.22E-05	0.022555
ENSOARG000000015317	SRR	12.45	4.67	-2.67	9.85E-05	0.022555
ENSOARG000000008385	CTSV	540.68	859.67	1.59	0.000112	0.022657
ENSOARG000000007444	MRAS	16.92	35.37	2.09	0.000121	0.022657
ENSOARG000000011727	RAI14	80.22	173.66	2.16	0.00012	0.022657
ENSOARG000000005240	SPAG7	93.99	155.74	1.66	0.000118	0.022657
ENSOARG000000000306	TIFA	8.53	1.11	-7.68	0.000114	0.022657
ENSOARG000000010343	CHD2	22.16	36.08	1.63	0.000136	0.022712
ENSOARG000000015194	CRYAB	952.41	6383.24	6.7	0.000133	0.022712
ENSOARG000000014561	MICALL1	44.11	87.76	1.99	0.000129	0.022712
ENSOARG000000012255	TET3	5.7	24.81	4.35	0.00013	0.022712
ENSOARG000000025757	-	16.91	31.46	1.86	0.000148	0.023601
ENSOARG000000015333	RRM2	26.21	5.78	-4.53	0.000152	0.023601
ENSOARG000000013921	UBE2B	19.35	32	1.65	0.000153	0.023601
ENSOARG000000007700	RBM4	77.47	45.16	-1.72	0.000161	0.0237
ENSOARG000000008067	SNX18	81.28	122.52	1.51	0.000161	0.0237
ENSOARG000000020698	ARHGDIB	12.6	7.45	-1.69	0.000167	0.024067
ENSOARG000000004315	ACSF2	37.03	19.33	-1.92	0.000288	0.024133

ENSOARG00000013163	ACSM3	128.92	31.09	-4.15	0.000222	0.024133
ENSOARG00000014051	ALDH3B2	7.93	14.16	1.79	0.000383	0.024133
ENSOARG00000017722	AP4M1	10.34	15.53	1.5	0.000176	0.024133
ENSOARG00000010000	ASGR2	194.39	99.52	-1.95	0.000296	0.024133
ENSOARG00000013636	CDKN1A	78.51	303.86	3.87	0.000176	0.024133
ENSOARG00000002309	CFAP36	27.09	57.41	2.12	0.000275	0.024133
ENSOARG00000002536	CIAO2B	78.59	140.17	1.78	0.000333	0.024133
ENSOARG00000018936	CYP2D6	78.09	46.13	-1.69	0.000284	0.024133
ENSOARG00000019440	DAD1	483.92	787.48	1.63	0.000255	0.024133
ENSOARG00000014319	DDAH1	14.29	7.5	-1.91	0.000359	0.024133
ENSOARG00000019293	DGKD	18.55	36.52	1.97	0.000292	0.024133
ENSOARG00000011917	DIDO1	12.08	6.13	-1.97	0.000182	0.024133
ENSOARG00000015650	DPYS	41.11	12.08	-3.4	0.000307	0.024133
ENSOARG00000010809	DVL2	11.29	17	1.51	0.000318	0.024133
ENSOARG00000008586	EBPL	40.13	22.74	-1.76	0.000235	0.024133
ENSOARG00000015633	FEN1	20.54	8.95	-2.29	0.000259	0.024133
ENSOARG00000018716	FGF16	1.8	15.33	8.52	0.000251	0.024133
ENSOARG00000012522	FOXRED1	53.86	24.15	-2.23	0.000256	0.024133
ENSOARG00000003596	HEATR6	21.79	33.34	1.53	0.000365	0.024133
ENSOARG00000011542	KLB	38.95	6.24	-6.24	0.000249	0.024133
ENSOARG00000003256	LCAT	163.59	79.93	-2.05	0.000345	0.024133
ENSOARG00000009290	LRG1	204.88	37.35	-5.49	0.000289	0.024133
ENSOARG00000009527	MARCKS	1631.95	2513.97	1.54	0.000351	0.024133
ENSOARG00000006991	MCM2	19.02	7.11	-2.68	0.000381	0.024133
ENSOARG00000001081	MCOLN1	39.47	61.6	1.56	0.00039	0.024133
ENSOARG00000012941	MLEC	113.33	67.67	-1.67	0.000355	0.024133
ENSOARG00000018032	NNAT	1297.92	174.92	-7.42	0.00022	0.024133
ENSOARG00000013368	NR6A1	2.99	8.08	2.7	0.000252	0.024133
ENSOARG00000004442	PCCA	14.09	6.82	-2.07	0.000187	0.024133
ENSOARG00000003426	PEG3	183.35	73.61	-2.49	0.000322	0.024133
ENSOARG00000019313	PKP2	21.93	8.88	-2.47	0.000356	0.024133
ENSOARG00000002369	PSMC3IP	8.78	2.4	-3.66	0.000188	0.024133
ENSOARG00000003025	RHOU	67.07	156.89	2.34	0.00038	0.024133
ENSOARG00000012938	RNASE4	374.91	180.23	-2.08	0.000201	0.024133
ENSOARG00000014081	SERPINF2	1309.68	705.95	-1.86	0.00026	0.024133
ENSOARG00000012527	SFT2D2	18.63	8.3	-2.24	0.000384	0.024133
ENSOARG00000019435	SIDT1	23.14	4.29	-5.39	0.000388	0.024133
ENSOARG00000017065	SLC23A1	27.33	6.36	-4.3	0.00037	0.024133
ENSOARG00000008554	SLC25A33	2.93	11.17	3.81	0.000329	0.024133
ENSOARG00000006790	SLFN13	15.32	2.54	-6.03	0.000247	0.024133
ENSOARG00000009745	SMC3	48.31	28	-1.73	0.000293	0.024133
ENSOARG00000021059	SORD	19.12	8.91	-2.15	0.000361	0.024133
ENSOARG00000013232	SPATA13	11.86	5	-2.37	0.000217	0.024133

ENSOARG00000013667	TBC1D17	40.07	60.14	1.5	0.000358	0.024133
ENSOARG00000011970	TESK1	23.09	38.9	1.68	0.000358	0.024133
ENSOARG00000004707	TOM1L1	34.97	87.6	2.51	0.000342	0.024133
ENSOARG00000001419	TPX2	18.09	8.62	-2.1	0.000385	0.024133
ENSOARG00000013795	TRIM39	11.83	19.87	1.68	0.000267	0.024133
ENSOARG00000020048	VAMP8	36.36	20.09	-1.81	0.0002	0.024133
ENSOARG00000008301	ZNRF2	23.31	49.74	2.13	0.000267	0.024133
ENSOARG00000006128	RNF125	40.58	87.94	2.17	0.000395	0.02419
ENSOARG00000005002	ALG1	23.19	15.16	-1.53	0.00043	0.024423
ENSOARG00000015183	BCLAF3	10.38	17.7	1.71	0.000442	0.024423
ENSOARG00000013070	C1orf115	142.57	51.13	-2.79	0.00042	0.024423
ENSOARG00000019659	PIM3	69.72	119.47	1.71	0.000422	0.024423
ENSOARG00000017955	PRDM4	9.69	15.87	1.64	0.000409	0.024423
ENSOARG00000004957	PRKAR2B	19.5	11.69	-1.67	0.000413	0.024423
ENSOARG00000008471	RAP1GAP	9.9	3.47	-2.85	0.000435	0.024423
ENSOARG00000012743	RNF6	13.96	23.07	1.65	0.000442	0.024423
ENSOARG00000006252	RRNAD1	12.37	22.72	1.84	0.000414	0.024423
ENSOARG00000014224	SLC4A7	17.01	37.49	2.2	0.000442	0.024423
ENSOARG00000012635	RABGGTB	20.08	53.08	2.64	0.000447	0.024478
ENSOARG00000017954	ACSL4	263.86	110.87	-2.38	0.000457	0.024532
ENSOARG00000018139	GCGR	56.45	27.36	-2.06	0.000463	0.024532
ENSOARG00000004347	MSX2	4.71	33.35	7.08	0.000464	0.024532
ENSOARG00000015939	RABGGTB	41.43	111.72	2.7	0.000463	0.024532
ENSOARG00000012705	ALDH1A1	49.15	18.8	-2.61	0.00048	0.024762
ENSOARG00000012263	BCL7A	11.08	17.5	1.58	0.000476	0.024762
ENSOARG00000008650	FBP1	145.75	36.46	-4	0.000487	0.024762
ENSOARG00000020715	RMND5A	56.83	116.51	2.05	0.000493	0.024762
ENSOARG00000014815	IFIT5	83.9	41.61	-2.02	0.000503	0.024864
ENSOARG00000013661	NEK6	71.46	38.02	-1.88	0.000502	0.024864
ENSOARG00000004505	PRKAG2	44.43	80.54	1.81	0.000512	0.025049
ENSOARG00000009053	RNF126	40.67	62.8	1.54	0.000519	0.025049
ENSOARG00000003804	SEMA7A	30.43	57.49	1.89	0.000515	0.025049
ENSOARG00000002446	GOLT1A	9.99	2.51	-3.98	0.000542	0.025085
ENSOARG00000013956	LGALS1	526.05	344.5	-1.53	0.000527	0.025085
ENSOARG00000005789	MED13L	10.86	18.82	1.73	0.000552	0.025085
ENSOARG00000002526	TAOK3	13.59	21.74	1.6	0.000536	0.025085
ENSOARG00000002508	TPRN	15.5	24.64	1.59	0.000533	0.025085
ENSOARG00000017433	ZSWIM7	17.72	11.55	-1.53	0.000552	0.025085
ENSOARG00000007741	SECISBP2	17.08	31.1	1.82	0.000558	0.02518
ENSOARG00000001799	AOC1	80.04	8.17	-9.8	0.00059	0.025392
ENSOARG00000018897	IFT57	11.2	34.22	3.06	0.000584	0.025392
ENSOARG00000013225	PRR3	18.42	10.38	-1.77	0.000585	0.025392
ENSOARG00000001395	TINAGL1	33.37	59.19	1.77	0.000584	0.025392

ENSOARG00000001345	TPH1	34.84	7.48	-4.66	0.000582	0.025392
ENSOARG00000009543	UCKL1	7.47	15.72	2.1	0.000591	0.025392
ENSOARG00000018095	ABCA3	44.61	24.83	-1.8	0.000635	0.025452
ENSOARG00000013395	CEBPB	126.67	218.99	1.73	0.000653	0.025452
ENSOARG00000016505	CPT1A	49.95	15.71	-3.18	0.000679	0.025452
ENSOARG00000001610	CRTC2	49.49	79.79	1.61	0.00064	0.025452
ENSOARG00000003963	DUSP1	72.6	196.57	2.71	0.000651	0.025452
ENSOARG00000010135	F5	65.32	147.53	2.26	0.000687	0.025452
ENSOARG00000008161	FGD3	15.33	7.53	-2.04	0.00068	0.025452
ENSOARG00000006340	GAB2	29.8	132.74	4.45	0.000659	0.025452
ENSOARG00000021078	GCH1	23.89	80.21	3.36	0.000641	0.025452
ENSOARG00000001374	HCRT1	9.11	28.33	3.11	0.000674	0.025452
ENSOARG00000009757	MARK4	9.42	22.42	2.38	0.000663	0.025452
ENSOARG00000004930	MMP12	200.36	374.29	1.87	0.000682	0.025452
ENSOARG00000000803	MTCL1	8.52	14.05	1.65	0.00066	0.025452
ENSOARG00000018904	PARP6	8.95	22.07	2.47	0.000638	0.025452
ENSOARG00000012005	PATL1	58.48	109.69	1.88	0.00068	0.025452
ENSOARG00000015144	SERPINA5	459.98	256.02	-1.8	0.000675	0.025452
ENSOARG00000014638	SMARCA1	125.18	51.55	-2.43	0.000608	0.025452
ENSOARG00000000718	TGDS	14.73	28.37	1.93	0.000687	0.025452
ENSOARG00000014918	TSHZ2	9.18	3.77	-2.44	0.000657	0.025452
ENSOARG00000000106	VRK1	12.58	6.64	-1.89	0.000671	0.025452
ENSOARG00000006059	BEND7	11.97	30.49	2.55	0.000702	0.025651
ENSOARG00000004893	CCL16	331.96	103.37	-3.21	0.000708	0.025651
ENSOARG00000026479	-	10.07	18.57	1.84	0.000772	0.026059
ENSOARG00000013680	-	33.02	9.09	-3.63	0.000911	0.026059
ENSOARG00000014967	AHI1	4.62	11.68	2.53	0.000781	0.026059
ENSOARG00000011321	AK1	9.99	4.22	-2.37	0.000868	0.026059
ENSOARG00000006313	ALDH18A1	21.64	11.81	-1.83	0.000873	0.026059
ENSOARG00000015052	AREG	1.22	27.52	22.56	0.000759	0.026059
ENSOARG00000018429	ARHGEF5	34.62	76.21	2.2	0.000743	0.026059
ENSOARG00000007209	CTSF	55.81	34.27	-1.63	0.000922	0.026059
ENSOARG00000003603	DPYSL3	10.49	4.6	-2.28	0.000847	0.026059
ENSOARG00000020569	EHHADH	57	20.85	-2.73	0.000793	0.026059
ENSOARG00000017480	ELL2	28.55	62.02	2.17	0.000856	0.026059
ENSOARG00000003522	FGFR4	11.83	5.45	-2.17	0.000893	0.026059
ENSOARG00000004552	GPSM1	16.25	34.13	2.1	0.000834	0.026059
ENSOARG00000014759	GSTA1-1	99.38	25.06	-3.97	0.00088	0.026059
ENSOARG00000011926	KATNAL1	5.95	21.72	3.65	0.00085	0.026059
ENSOARG00000018403	KIAA1614	5.1	10.73	2.1	0.00089	0.026059
ENSOARG00000015370	KLHL3	8.63	3.51	-2.46	0.000917	0.026059
ENSOARG00000004639	KLHL8	4.49	11.26	2.51	0.000909	0.026059
ENSOARG00000021088	LGALS3	811.37	2070.43	2.55	0.000771	0.026059

ENSOARG00000002988	MAP2K7	21.23	31.92	1.5	0.000863	0.026059
ENSOARG000000018527	MCM5	48.7	19.11	-2.55	0.000921	0.026059
ENSOARG000000010614	MCM6	39.77	21.44	-1.85	0.000877	0.026059
ENSOARG000000005046	MSH6	59.55	33.46	-1.78	0.000741	0.026059
ENSOARG000000008341	MTURN	34.19	96.75	2.83	0.000926	0.026059
ENSOARG000000007925	PCCB	29.2	16.07	-1.82	0.000852	0.026059
ENSOARG000000018226	RAPH1	11.89	26.65	2.24	0.000883	0.026059
ENSOARG000000019098	RND1	10.96	3.59	-3.05	0.000801	0.026059
ENSOARG000000014479	RPA1	47.88	28.95	-1.65	0.000746	0.026059
ENSOARG000000020560	SENP2	28.62	54.26	1.9	0.000762	0.026059
ENSOARG000000020892	SLC20A1	100.32	448.98	4.48	0.000811	0.026059
ENSOARG000000018282	SLC46A1	10.58	3.72	-2.84	0.000728	0.026059
ENSOARG000000001352	SMG7	37.98	88.32	2.33	0.000888	0.026059
ENSOARG000000017725	SPC24	22	7.89	-2.79	0.00075	0.026059
ENSOARG000000002680	TIAL1	92.33	140.94	1.53	0.000923	0.026059
ENSOARG000000005673	TK1	20.97	8.2	-2.56	0.000866	0.026059
ENSOARG000000016617	TRANK1	27.34	6.36	-4.3	0.000907	0.026059
ENSOARG000000020658	TXNIP	40.74	6.94	-5.87	0.000837	0.026059
ENSOARG000000020687	USP13	5.32	20.73	3.9	0.000793	0.026059
ENSOARG000000005787	WFS1	70.14	209.8	2.99	0.000906	0.026059
ENSOARG000000004046	ACAA2	63.89	32.02	-2	0.000996	0.02618
ENSOARG000000010662	ACADVL	101.92	47.23	-2.16	0.000985	0.02618
ENSOARG000000014252	ACER2	19.6	10.44	-1.88	0.001016	0.02618
ENSOARG000000009382	AGMAT	29.76	12.61	-2.36	0.001195	0.02618
ENSOARG000000018314	AGXT	47.09	14.51	-3.25	0.001238	0.02618
ENSOARG000000006134	AMBP	1659.42	818.31	-2.03	0.001184	0.02618
ENSOARG000000002530	ANKRD49	12.87	6.45	-2	0.001201	0.02618
ENSOARG000000015185	ARSG	20.28	7.55	-2.69	0.001239	0.02618
ENSOARG000000019420	ATXN10	177.55	105.28	-1.69	0.001092	0.02618
ENSOARG000000005582	C5	98.28	23.77	-4.13	0.001219	0.02618
ENSOARG000000000578	CDCA7	8.03	2.12	-3.79	0.001145	0.02618
ENSOARG000000010667	CDK2	19.12	11.79	-1.62	0.00122	0.02618
ENSOARG000000007893	CEP170B	31.31	54.32	1.73	0.001	0.02618
ENSOARG000000025184	CLDN4	498.07	880.83	1.77	0.001196	0.02618
ENSOARG000000004348	CLYBL	15.55	24.25	1.56	0.000996	0.02618
ENSOARG000000018283	CYP3A4	19.91	129.87	6.52	0.001077	0.02618
ENSOARG000000007485	DCDC2	75.8	21.95	-3.45	0.001063	0.02618
ENSOARG000000011989	DECR2	87.94	30.15	-2.92	0.001031	0.02618
ENSOARG000000015380	DNMT1	26.48	15.27	-1.73	0.001042	0.02618
ENSOARG000000004051	DVL1	22.98	46.99	2.04	0.001188	0.02618
ENSOARG000000015811	EEA1	20.49	43.11	2.1	0.001164	0.02618
ENSOARG000000003585	ELMO1	30.99	18.29	-1.69	0.001219	0.02618
ENSOARG000000017468	EPHX1	287.52	90.39	-3.18	0.001184	0.02618

ENSOARG00000004548	FAM50A	9.99	15.12	1.51	0.001253	0.02618
ENSOARG00000020524	FMO5	10.48	5.46	-1.92	0.001102	0.02618
ENSOARG00000008869	FUS	74.61	41.64	-1.79	0.001248	0.02618
ENSOARG00000008843	GALM	97.12	20.99	-4.63	0.001219	0.02618
ENSOARG00000021045	GATM	380.79	193.8	-1.96	0.001065	0.02618
ENSOARG00000007066	GLTPD2	25.77	5.51	-4.68	0.001168	0.02618
ENSOARG00000017584	GSTA1	73.06	20.77	-3.52	0.001027	0.02618
ENSOARG00000019925	HGD	20.8	5.15	-4.04	0.001125	0.02618
ENSOARG00000004689	HPN	216.72	127.25	-1.7	0.001163	0.02618
ENSOARG00000001872	HSPB8	257.02	718.21	2.79	0.000979	0.02618
ENSOARG00000016268	IDUA	54.89	34.35	-1.6	0.000965	0.02618
ENSOARG00000017793	IRF2BP2	265.74	474	1.78	0.001226	0.02618
ENSOARG00000005030	KCTD13	8.57	14.33	1.67	0.001005	0.02618
ENSOARG00000008250	KLKB1	16.91	4.72	-3.58	0.00108	0.02618
ENSOARG00000016786	KRT8	1956.31	591.94	-3.3	0.0011	0.02618
ENSOARG00000002925	LENG1	24.51	75.99	3.1	0.00122	0.02618
ENSOARG00000015564	LRRC8B	8.55	14.67	1.72	0.000941	0.02618
ENSOARG00000009525	MAL2	12.98	4.71	-2.76	0.001145	0.02618
ENSOARG00000006166	MLKL	12.52	5.74	-2.18	0.001134	0.02618
ENSOARG00000020160	PARP14	17.88	9.61	-1.86	0.001192	0.02618
ENSOARG00000020743	PCLAF	8.48	2.19	-3.87	0.001143	0.02618
ENSOARG00000018444	PDZD8	18.31	30.5	1.67	0.001105	0.02618
ENSOARG00000013082	PFKFB3	23.25	82.66	3.56	0.001189	0.02618
ENSOARG00000017897	PFKFB4	7.55	20.14	2.67	0.000948	0.02618
ENSOARG00000011093	PI4K2A	23.1	76.03	3.29	0.001127	0.02618
ENSOARG00000005810	PRCP	24.37	14.62	-1.67	0.001014	0.02618
ENSOARG00000000907	PWWP3B	30.89	17.59	-1.76	0.001039	0.02618
ENSOARG00000006929	R3HDM2	53.19	99.08	1.86	0.001043	0.02618
ENSOARG00000001748	RASD1	4.4	28.13	6.39	0.001094	0.02618
ENSOARG00000009070	RPL7L1	71.79	46.15	-1.56	0.001142	0.02618
ENSOARG00000017517	SERINC5	57.92	137.43	2.37	0.001239	0.02618
ENSOARG00000002378	SGCE	155.66	46.64	-3.34	0.001091	0.02618
ENSOARG00000012076	SKA2	12.66	4.77	-2.65	0.000996	0.02618
ENSOARG00000011307	ST6GALNAC6	75.84	25.34	-2.99	0.000981	0.02618
ENSOARG00000008907	TIMELESS	19.1	9	-2.12	0.001157	0.02618
ENSOARG00000004881	TM4SF1	133.85	698.25	5.22	0.001145	0.02618
ENSOARG00000012428	URAD	24.54	2.76	-8.89	0.001224	0.02618
ENSOARG00000018303	VCAM1	32.33	8.24	-3.92	0.001146	0.02618
ENSOARG00000007041	ZNF384	31.89	49.93	1.57	0.001077	0.02618
ENSOARG00000013628	IL33	10.12	2.11	-4.8	0.001266	0.026347
ENSOARG00000019417	IGFBP2	1204.62	638.69	-1.89	0.001288	0.026641
ENSOARG00000020498	MASP1	57.43	21.57	-2.66	0.001304	0.026697
ENSOARG00000002482	SASH1	32.84	58.11	1.77	0.001297	0.026697

ENSOARG00000001230	-	12.29	6.86	-1.79	0.001764	0.026729
ENSOARG000000013325	-	11.52	5.87	-1.96	0.001509	0.026729
ENSOARG00000002038	-	17.39	7.86	-2.21	0.002264	0.026729
ENSOARG000000015186	ACSS3	49.23	13.62	-3.61	0.002019	0.026729
ENSOARG000000015738	ADH5	141.58	72.35	-1.96	0.002125	0.026729
ENSOARG000000004375	AHCYL2	6.71	15.75	2.35	0.00228	0.026729
ENSOARG000000012967	AKIRIN2	59.64	106.44	1.78	0.002122	0.026729
ENSOARG000000001793	AKR1A1	149.33	79.8	-1.87	0.001803	0.026729
ENSOARG000000014292	ALDH3B1	11.95	22.29	1.87	0.001708	0.026729
ENSOARG000000004068	AP1B1	52.4	34.9	-1.5	0.001549	0.026729
ENSOARG000000016832	ATP6V1C1	39.8	119.53	3	0.002176	0.026729
ENSOARG000000005403	BACE1	27.03	10.19	-2.65	0.001782	0.026729
ENSOARG000000019968	BHLHE41	13.39	94.03	7.02	0.001884	0.026729
ENSOARG000000008607	BTBD6	50.93	191.86	3.77	0.001668	0.026729
ENSOARG000000020341	C3AR1	12.97	5.48	-2.37	0.002295	0.026729
ENSOARG000000009848	C5orf51	16.17	25.62	1.58	0.001485	0.026729
ENSOARG000000009262	CARD6	19.64	11.46	-1.71	0.001871	0.026729
ENSOARG000000018566	CAT	241.9	91.15	-2.65	0.002205	0.026729
ENSOARG000000016355	CCDC112	5.08	18.64	3.67	0.0017	0.026729
ENSOARG000000015247	CCDC59	23.99	40.04	1.67	0.002249	0.026729
ENSOARG000000005310	CCDC90B	19.22	31.53	1.64	0.001606	0.026729
ENSOARG000000007385	CCS	45.27	24.25	-1.87	0.002111	0.026729
ENSOARG000000009256	CD3G	0.86	6.01	6.99	0.001796	0.026729
ENSOARG000000015982	CDC23	9.42	3.94	-2.39	0.001965	0.026729
ENSOARG000000008840	CEP57	18.59	34.55	1.86	0.001991	0.026729
ENSOARG000000009704	CHAF1A	12.5	4.67	-2.68	0.002106	0.026729
ENSOARG000000011655	CHEK1	18.03	4.81	-3.75	0.001879	0.026729
ENSOARG000000015196	CHPT1	71.38	45.85	-1.56	0.002195	0.026729
ENSOARG000000014144	CMBL	33.8	16.27	-2.08	0.001851	0.026729
ENSOARG000000007390	COPZ2	50.41	17.13	-2.94	0.001956	0.026729
ENSOARG000000001499	COQ8A	10.37	2.95	-3.52	0.002161	0.026729
ENSOARG000000018900	CPNE2	45.92	23.17	-1.98	0.001964	0.026729
ENSOARG000000006212	CRABP2	25.87	266.74	10.31	0.002	0.026729
ENSOARG000000004089	CREBRF	7.52	18.57	2.47	0.002302	0.026729
ENSOARG000000005465	CRELD1	15.22	9.27	-1.64	0.002026	0.026729
ENSOARG000000001260	CSNK2A2	45.23	72.1	1.59	0.001864	0.026729
ENSOARG000000003754	CTIF	17.16	30.7	1.79	0.002315	0.026729
ENSOARG000000016543	CXCL9	11.01	2.36	-4.67	0.001642	0.026729
ENSOARG000000011582	CYP26B1	3.87	11.12	2.87	0.001914	0.026729
ENSOARG000000011455	DDX6	58.66	33.21	-1.77	0.001575	0.026729
ENSOARG000000010122	DIRAS3	527.05	52.41	-10.06	0.001514	0.026729
ENSOARG000000018256	DMD	25.23	63.6	2.52	0.00147	0.026729
ENSOARG000000000742	DNAJA4	6.15	14.87	2.42	0.001507	0.026729

ENSOARG00000018798	DNAJC22	46.93	25.58	-1.83	0.001998	0.026729
ENSOARG00000007522	DNAJC9	21.17	10.7	-1.98	0.001391	0.026729
ENSOARG00000007360	DUSP9	91.11	21.89	-4.16	0.001891	0.026729
ENSOARG00000006176	DYRK3	11.82	45.94	3.89	0.002149	0.026729
ENSOARG00000015090	EAF1	58.59	113.2	1.93	0.0022	0.026729
ENSOARG00000018622	EEF1B2	318.48	511.43	1.61	0.0015	0.026729
ENSOARG00000011109	EEF2	341.97	563.43	1.65	0.002002	0.026729
ENSOARG00000003647	EFNA1	76.28	26.4	-2.89	0.002159	0.026729
ENSOARG00000020774	EIF2AK3	44.43	243.66	5.48	0.001352	0.026729
ENSOARG00000016759	EIF4B	258.34	409.05	1.58	0.001569	0.026729
ENSOARG00000015457	ENPP2	43.3	27.17	-1.59	0.002182	0.026729
ENSOARG00000006143	EPS8L2	56.73	16.85	-3.37	0.001381	0.026729
ENSOARG00000000701	ERLIN2	60.76	35.02	-1.74	0.002215	0.026729
ENSOARG00000020117	ETNK1	26.7	11.11	-2.4	0.002193	0.026729
ENSOARG00000003642	EWSR1	45.58	26.04	-1.75	0.002152	0.026729
ENSOARG00000007822	F10	29.57	15.13	-1.95	0.002152	0.026729
ENSOARG00000011071	FAM102A	9.18	21.11	2.3	0.001414	0.026729
ENSOARG00000018480	FAM83G	7.31	15.88	2.17	0.00233	0.026729
ENSOARG00000013413	FBXL12	19.18	11.66	-1.64	0.001724	0.026729
ENSOARG00000016187	FNIP1	20.32	73.94	3.64	0.001371	0.026729
ENSOARG00000003354	FNIP2	14.97	46.1	3.08	0.001711	0.026729
ENSOARG00000020401	FOXJ3	15.34	33.47	2.18	0.001443	0.026729
ENSOARG00000011687	GAMT	285.83	74.33	-3.85	0.001413	0.026729
ENSOARG00000007839	GEM	7.85	46.15	5.88	0.002301	0.026729
ENSOARG00000020518	GGCX	64.19	17.7	-3.63	0.001538	0.026729
ENSOARG00000019976	GLB1L	32.01	15.74	-2.03	0.001398	0.026729
ENSOARG00000008320	GLUD1	1457.55	768.45	-1.9	0.00233	0.026729
ENSOARG00000000769	GLUD1	711.54	368.29	-1.93	0.001555	0.026729
ENSOARG00000015323	GNA13	50.18	84.72	1.69	0.001336	0.026729
ENSOARG00000001069	GOLIM4	166.28	89.59	-1.86	0.00156	0.026729
ENSOARG00000019513	GRAMD1C	12.85	4.72	-2.72	0.001853	0.026729
ENSOARG00000018452	GRAMD2B	27.24	48.55	1.78	0.001856	0.026729
ENSOARG00000010736	GSDME	13.01	61.21	4.7	0.00147	0.026729
ENSOARG00000011276	GTF2I	50.34	20.76	-2.42	0.001816	0.026729
ENSOARG00000007989	GUCY1B1	28.98	60.1	2.07	0.00134	0.026729
ENSOARG00000016724	HMGCR	35.5	69.3	1.95	0.002051	0.026729
ENSOARG00000003928	HNF4A	54.96	11.73	-4.69	0.002175	0.026729
ENSOARG00000003368	HNRNPH1	158.74	79.3	-2	0.001573	0.026729
ENSOARG00000010934	HOGA1	48.71	27.81	-1.75	0.002278	0.026729
ENSOARG00000020096	HPCAL4	4.09	11.47	2.8	0.001628	0.026729
ENSOARG00000002580	HS6ST3	27.71	11.33	-2.45	0.002096	0.026729
ENSOARG00000000722	HSD17B4	42.85	23.48	-1.82	0.002305	0.026729
ENSOARG00000016699	IGFBP6	24.01	8.5	-2.82	0.002055	0.026729

ENSOARG00000020462	IL1RAP	35.59	75.32	2.12	0.001354	0.026729
ENSOARG00000017475	INHBA	5.72	21.54	3.77	0.001402	0.026729
ENSOARG00000020473	IRS1	63.99	230.38	3.6	0.001813	0.026729
ENSOARG00000015960	KCTD12	27.15	11.69	-2.32	0.001652	0.026729
ENSOARG00000014908	LGR4	59.84	24.81	-2.41	0.001943	0.026729
ENSOARG00000020371	LOC101101862	23.68	7.92	-2.99	0.001426	0.026729
ENSOARG00000013927	LOC101104530	85.69	44.97	-1.91	0.00153	0.026729
ENSOARG00000009639	LOC101106395	108.91	28.9	-3.77	0.001519	0.026729
ENSOARG00000009674	LOC101112590	32.02	14.73	-2.17	0.001435	0.026729
ENSOARG00000013005	LOC101114959	528.12	284.43	-1.86	0.001912	0.026729
ENSOARG00000017944	LOC101116481	45.87	22.66	-2.02	0.001846	0.026729
ENSOARG00000018263	LOC101119629	13.41	3.29	-4.08	0.001916	0.026729
ENSOARG00000009541	LOC101122788	28.05	2.84	-9.88	0.00226	0.026729
ENSOARG00000006187	MAPKAPK2	121.25	227.94	1.88	0.002302	0.026729
ENSOARG00000010176	MAT1A	82.89	8.72	-9.51	0.002228	0.026729
ENSOARG00000010156	MBTPS1	46	25.96	-1.77	0.001857	0.026729
ENSOARG00000014143	MCM3	33.94	13.85	-2.45	0.001711	0.026729
ENSOARG00000012797	MCM4	42.32	14.81	-2.86	0.001605	0.026729
ENSOARG00000012750	MCRIP2	17.81	31.63	1.78	0.001448	0.026729
ENSOARG00000011803	MEDAG	8.62	29.58	3.43	0.001893	0.026729
ENSOARG00000005974	MEF2D	25.1	44.43	1.77	0.001746	0.026729
ENSOARG00000010010	MFHAS1	29.16	69.16	2.37	0.001956	0.026729
ENSOARG00000020169	MFSD2A	3.7	9.95	2.69	0.002027	0.026729
ENSOARG00000014837	MGMT	13.3	5.59	-2.38	0.001731	0.026729
ENSOARG00000011022	MORN4	9.88	29.96	3.03	0.001954	0.026729
ENSOARG00000020147	MYCL	5.78	17.26	2.99	0.002204	0.026729
ENSOARG00000006006	MYO18A	38.2	16.88	-2.26	0.00187	0.026729
ENSOARG00000016789	NIPAL1	11.13	32.7	2.94	0.00206	0.026729
ENSOARG00000004838	NIPSNAP1	108.13	29.78	-3.63	0.001404	0.026729
ENSOARG00000010973	OSGIN2	15.26	36.23	2.37	0.00138	0.026729
ENSOARG00000015316	OXR1	16	33.12	2.07	0.0016	0.026729
ENSOARG00000005943	PABPC1L2B	68.57	105.43	1.54	0.001735	0.026729
ENSOARG00000015569	PALLD	38.91	100.68	2.59	0.001611	0.026729
ENSOARG00000006754	PALM3	21.03	11.02	-1.91	0.001595	0.026729
ENSOARG00000018831	PAQR3	5.37	11.5	2.14	0.002246	0.026729
ENSOARG00000019705	PCYOX1	76.77	23.3	-3.29	0.001666	0.026729
ENSOARG00000014364	PIM1	38.54	207.19	5.38	0.002066	0.026729
ENSOARG00000014688	PLEKHF2	23.09	37.03	1.6	0.001345	0.026729
ENSOARG00000008953	PLEKHM2	61.71	183.32	2.97	0.001955	0.026729
ENSOARG00000004726	PLG	834.9	337.16	-2.48	0.001758	0.026729
ENSOARG00000006393	PPP1R13B	25.28	63.34	2.51	0.001704	0.026729
ENSOARG00000020179	PPT1	127.05	80.9	-1.57	0.001649	0.026729
ENSOARG00000005847	PRKCE	7.19	14.8	2.06	0.002312	0.026729

ENSOARG00000017273	PROS1	300.77	114.17	-2.63	0.001814	0.026729
ENSOARG00000009324	PROX1	29.88	7.15	-4.18	0.001754	0.026729
ENSOARG00000003400	RALGAPA2	22.6	55.07	2.44	0.001672	0.026729
ENSOARG00000014228	RBM18	21.11	32.44	1.54	0.001644	0.026729
ENSOARG00000011940	RBM24	1.13	14.3	12.65	0.002325	0.026729
ENSOARG00000011358	RFC1	27.63	18.16	-1.52	0.002162	0.026729
ENSOARG00000002486	RRAD	17.67	93.73	5.3	0.002125	0.026729
ENSOARG00000019959	RRAGC	20.07	37.76	1.88	0.002021	0.026729
ENSOARG00000007137	RRAS2	72.59	142.52	1.96	0.002016	0.026729
ENSOARG00000011735	RUFY3	45.08	82.57	1.83	0.002239	0.026729
ENSOARG00000007690	S1PR3	43.6	13.94	-3.13	0.001683	0.026729
ENSOARG00000002967	SARDH	12.15	3.9	-3.12	0.002033	0.026729
ENSOARG00000016798	SAT1	1563.15	3088.4	1.98	0.002052	0.026729
ENSOARG00000017139	SCAMP1	10.68	19.11	1.79	0.001335	0.026729
ENSOARG00000002761	SCAMP5	19.37	11.84	-1.64	0.00203	0.026729
ENSOARG00000015743	SELENOK	172.33	277.85	1.61	0.00213	0.026729
ENSOARG00000015957	SEMA4G	60.94	16.82	-3.62	0.001466	0.026729
ENSOARG00000019439	SFPQ	139.48	76.87	-1.81	0.001927	0.026729
ENSOARG00000015031	SH3BP5	17.22	67.69	3.93	0.002214	0.026729
ENSOARG00000014510	SLC18B1	18.18	10.28	-1.77	0.00218	0.026729
ENSOARG00000020171	SLC22A15	3.96	16.92	4.27	0.002288	0.026729
ENSOARG00000016084	SLC25A20	21.14	10.36	-2.04	0.002318	0.026729
ENSOARG00000007688	SLC25A6	622.86	1054.9	1.69	0.001475	0.026729
ENSOARG00000018707	SLC38A10	58.93	30.29	-1.95	0.00186	0.026729
ENSOARG00000020420	SLCO1B3	30.78	11.44	-2.69	0.002049	0.026729
ENSOARG00000009436	SLITRK4	120.77	49.89	-2.42	0.001722	0.026729
ENSOARG00000006758	SNX6	40.92	62.12	1.52	0.00194	0.026729
ENSOARG00000017940	SRC	19.09	43.86	2.3	0.002044	0.026729
ENSOARG00000015645	SRRT	69.19	41.07	-1.68	0.002125	0.026729
ENSOARG00000003117	SRSF6	79.73	38.83	-2.05	0.001668	0.026729
ENSOARG00000012855	ST3GAL4	73.89	37.02	-2	0.001384	0.026729
ENSOARG00000011645	STAM	29.69	78.89	2.66	0.001861	0.026729
ENSOARG00000001511	STAT3	108.43	72.39	-1.5	0.001915	0.026729
ENSOARG00000013903	STAT4	76.55	33.3	-2.3	0.001366	0.026729
ENSOARG00000011811	STEAP4	36.56	9.28	-3.94	0.002267	0.026729
ENSOARG00000003303	STX12	42.11	82.13	1.95	0.002076	0.026729
ENSOARG00000011468	SULT2A1	10.43	26.86	2.58	0.001731	0.026729
ENSOARG00000009182	TAX1BP1	23.06	37.63	1.63	0.001411	0.026729
ENSOARG00000008069	TEAD1	14.01	22.67	1.62	0.0023	0.026729
ENSOARG00000008441	TFDP1	25.18	12.87	-1.96	0.002252	0.026729
ENSOARG00000015081	TGFBI	121.13	69.31	-1.75	0.00158	0.026729
ENSOARG00000008707	TICAM1	24.39	42.38	1.74	0.002131	0.026729
ENSOARG00000016945	TLCD5	8.96	26.66	2.98	0.001431	0.026729

ENSOARG00000018695	TLE3	13.77	25.18	1.83	0.001867	0.026729
ENSOARG00000010665	TMEM186	18.17	12	-1.51	0.001392	0.026729
ENSOARG00000008641	TMEM267	39.66	21.53	-1.84	0.002052	0.026729
ENSOARG00000003661	TOX2	6.23	54.8	8.8	0.001651	0.026729
ENSOARG00000016897	TRPV2	14.04	32.06	2.28	0.001803	0.026729
ENSOARG00000010711	TSPAN9	34.7	16	-2.17	0.002255	0.026729
ENSOARG00000001273	TXNDC17	229.35	74.36	-3.08	0.001782	0.026729
ENSOARG00000017127	TXNDC5	105.32	64.97	-1.62	0.00216	0.026729
ENSOARG00000007258	UBE2O	16.63	56.29	3.38	0.002066	0.026729
ENSOARG00000008530	UHRF1	11.67	3.08	-3.79	0.002259	0.026729
ENSOARG00000014074	UPB1	44.83	9.93	-4.51	0.001612	0.026729
ENSOARG00000019268	USP40	20.8	10.96	-1.9	0.001745	0.026729
ENSOARG00000020536	VAMP5	52.66	26.03	-2.02	0.001357	0.026729
ENSOARG00000008970	VPS52	30.13	13.36	-2.26	0.001619	0.026729
ENSOARG00000020041	VPS54	14.16	36.19	2.56	0.001914	0.026729
ENSOARG00000020381	WARS2	9.12	22.18	2.43	0.001836	0.026729
ENSOARG00000006905	WBP4	33.35	57.14	1.71	0.002037	0.026729
ENSOARG00000008330	WDR91	16.61	30.07	1.81	0.001985	0.026729
ENSOARG00000006633	YIPF1	11.71	6.12	-1.91	0.002268	0.026729
ENSOARG00000011043	ZC3HAV1	48.7	24.35	-2	0.001874	0.026729
ENSOARG00000003315	ZNF583	15.9	28.81	1.81	0.001468	0.026729
ENSOARG00000017201	ZNF598	17.5	35.32	2.02	0.001323	0.026729
ENSOARG00000020704	ZNF639	9.6	16.72	1.74	0.001936	0.026729
ENSOARG00000010740	ZRANB1	17.15	29.71	1.73	0.002003	0.026729
ENSOARG00000009780	ZRANB2	11.33	3.98	-2.85	0.001433	0.026729
ENSOARG00000015462	COQ10B	12	35.72	2.98	0.00234	0.026791
ENSOARG00000013883	ARID5A	9.1	51.28	5.64	0.002365	0.026915
ENSOARG00000013374	CAPN5	22.67	13.47	-1.68	0.002361	0.026915
ENSOARG00000004601	JMJD1C	25.87	42.76	1.65	0.002372	0.026915
ENSOARG00000007339	PLA2G12B	51.54	27.27	-1.89	0.002361	0.026915
ENSOARG00000010311	CIZ1	8.06	13.42	1.67	0.002385	0.026963
ENSOARG00000003154	ARHGAP21	30.43	72.3	2.38	0.00243	0.027105
ENSOARG00000016023	EPPK1	15.89	6	-2.65	0.00243	0.027105
ENSOARG00000009833	MITF	18.38	31.08	1.69	0.002423	0.027105
ENSOARG00000008715	MTSS1	101.75	52.24	-1.95	0.002418	0.027105
ENSOARG00000001820	NASP	24.23	13.08	-1.85	0.002412	0.027105
ENSOARG00000015129	UTP14A	23.28	51.6	2.22	0.002416	0.027105
ENSOARG00000010728	ZCCHC8	20.12	34.89	1.73	0.002408	0.027105
ENSOARG00000014910	ELP3	44.03	22.87	-1.93	0.00244	0.027131
ENSOARG00000019784	AAK1	7.93	39.24	4.95	0.002458	0.027281
ENSOARG00000016935	BCAR3	13.74	29.43	2.14	0.002472	0.027294
ENSOARG00000008257	-	18.18	8.37	-2.17	0.002647	0.027418
ENSOARG00000019387	AJUBA	30.75	18.15	-1.69	0.002548	0.027418

ENSOARG00000009458	AQP7	11.38	42.82	3.76	0.002532	0.027418
ENSOARG00000002448	ATP8B2	23.1	13.41	-1.72	0.0026	0.027418
ENSOARG00000015268	C11orf52	26.54	7.79	-3.41	0.002595	0.027418
ENSOARG00000003493	CHTF8	69.82	30.35	-2.3	0.002648	0.027418
ENSOARG00000018063	DGCR8	47.37	16.5	-2.87	0.002571	0.027418
ENSOARG00000014177	DOT1L	30.2	107.85	3.57	0.002609	0.027418
ENSOARG00000016161	EPB41L4A	19.19	31.1	1.62	0.00252	0.027418
ENSOARG00000015116	GPAA1	57.97	37.36	-1.55	0.002506	0.027418
ENSOARG00000012554	HABP2	261.44	93.03	-2.81	0.002639	0.027418
ENSOARG00000020951	HDAC1	53.44	32.25	-1.66	0.002579	0.027418
ENSOARG00000001155	HECA	24.4	39.41	1.62	0.002552	0.027418
ENSOARG00000004593	HEXB	99.81	207.45	2.08	0.00265	0.027418
ENSOARG00000000285	INSR	23.37	70.1	3	0.002602	0.027418
ENSOARG00000006664	LITAF	124.13	222.62	1.79	0.002562	0.027418
ENSOARG00000020023	MACF1	14.17	25.56	1.8	0.002572	0.027418
ENSOARG00000005525	MALT1	11	4.6	-2.39	0.002617	0.027418
ENSOARG00000018509	MR1	27.77	17.95	-1.55	0.002588	0.027418
ENSOARG00000019377	NEPRO	6.43	12.53	1.95	0.002645	0.027418
ENSOARG00000009097	OAS2	29.22	7.21	-4.05	0.002631	0.027418
ENSOARG00000000095	PABPC1	260.6	433.86	1.66	0.00265	0.027418
ENSOARG00000002732	PANK3	8.79	15.36	1.75	0.002599	0.027418
ENSOARG00000020873	RNF19B	5.69	22.85	4.02	0.002639	0.027418
ENSOARG00000003451	SLC20A2	11.02	21.25	1.93	0.002602	0.027418
ENSOARG00000009272	SLC7A2	19.93	11.22	-1.78	0.002492	0.027418
ENSOARG00000010235	TMF1	19.5	46.87	2.4	0.002512	0.027418
ENSOARG00000014189	USP6NL	16.14	33.49	2.07	0.002523	0.027418
ENSOARG00000012140	UTP14C	10.54	22.03	2.09	0.002517	0.027418
ENSOARG00000013303	VLDLR	50.17	138.33	2.76	0.002513	0.027418
ENSOARG00000014107	ZNF438	8.51	15.26	1.79	0.002628	0.027418
ENSOARG00000017488	CCND1	43.27	18.22	-2.37	0.002712	0.027491
ENSOARG00000004421	CDKN2C	11.05	3.49	-3.17	0.002716	0.027491
ENSOARG00000020517	EIF4A2	82.58	248.84	3.01	0.002693	0.027491
ENSOARG00000008676	LOC101102818	13.63	1.4	-9.74	0.002699	0.027491
ENSOARG00000019742	MXD1	31.7	110.89	3.5	0.002711	0.027491
ENSOARG00000001202	PLK3	14.6	41.02	2.81	0.002695	0.027491
ENSOARG00000010721	RNASEH2A	21.89	9.06	-2.42	0.002726	0.027491
ENSOARG00000017466	SGSM3	11.65	4.71	-2.47	0.002695	0.027491
ENSOARG00000001315	SLC22A10	62.92	27.96	-2.25	0.002667	0.027491
ENSOARG00000019825	TM7SF3	13.46	7.34	-1.83	0.002702	0.027491
ENSOARG00000002665	TUBB4B	170.94	77.81	-2.2	0.002718	0.027491
ENSOARG00000011694	B3GLCT	18.51	10.5	-1.76	0.002766	0.027498
ENSOARG00000017649	CCNG2	10.7	30.45	2.85	0.002755	0.027498
ENSOARG00000004690	DNMT3B	55.58	91.5	1.65	0.002763	0.027498

ENSOARG00000017782	MAFG	23.28	59.36	2.55	0.002742	0.027498
ENSOARG00000015147	MTHFS	16.34	10.56	-1.55	0.002737	0.027498
ENSOARG00000018940	SCLY	29.82	13.36	-2.23	0.002764	0.027498
ENSOARG00000008919	SOCS7	8.59	16.36	1.9	0.002762	0.027498
ENSOARG00000016058	TEAD2	14.63	29.17	1.99	0.002764	0.027498
ENSOARG00000014508	PKIA	44.66	16.87	-2.65	0.00278	0.027509
ENSOARG00000018165	RAB3D	105.12	68.91	-1.53	0.002781	0.027509
ENSOARG00000018462	EIF4A2	121.53	379.77	3.12	0.00279	0.02753
ENSOARG00000018880	MAN2A1	73.21	44.16	-1.66	0.002792	0.02753
ENSOARG00000003360	ESRP2	38.98	3.23	-12.07	0.002797	0.027541
ENSOARG00000015169	IFIT2	42.92	20.15	-2.13	0.002833	0.02759
ENSOARG00000019346	MREG	4.02	9.17	2.28	0.002809	0.02759
ENSOARG00000006843	NUMBL	11.48	59.13	5.15	0.002829	0.02759
ENSOARG00000009085	SESN3	56.1	21.52	-2.61	0.002831	0.02759
ENSOARG00000012881	TEAD2	41.23	86.79	2.11	0.002841	0.027619
ENSOARG00000002757	MMP23B	25.23	12.01	-2.1	0.002853	0.027651
ENSOARG00000001369	UBE2S	73.76	120.72	1.64	0.002851	0.027651
ENSOARG000000025723	-	56.76	24.51	-2.32	0.002882	0.027802
ENSOARG00000012060	AMDHD1	26.83	4.16	-6.45	0.002881	0.027802
ENSOARG00000012380	TBC1D9	29.24	60.87	2.08	0.002875	0.027802
ENSOARG00000020954	MAPK6	28.54	60.26	2.11	0.002911	0.027913
ENSOARG00000019429	OXA1L	82.52	130.42	1.58	0.002912	0.027913
ENSOARG00000006004	SCP2	79.85	32.78	-2.44	0.002909	0.027913
ENSOARG00000006500	DDIT3	53.88	253.85	4.71	0.002939	0.027941
ENSOARG00000003271	EGLN1	60.28	30.29	-1.99	0.002946	0.027941
ENSOARG00000008372	HTATIP2	33.55	15.14	-2.22	0.002928	0.027941
ENSOARG00000010979	RHNO1	11.43	5.35	-2.14	0.002947	0.027941
ENSOARG00000008323	SRSF1	167.52	72.08	-2.32	0.002934	0.027941
ENSOARG00000011806	TSTD3	12.48	4.25	-2.94	0.002951	0.027941
ENSOARG00000007670	UBALD2	102.05	262.26	2.57	0.002923	0.027941
ENSOARG00000012486	-	114.76	197.5	1.72	0.002973	0.027949
ENSOARG00000014385	ABCA6	54.16	15.96	-3.39	0.003393	0.027949
ENSOARG00000013004	ABCC2	7.53	1.11	-6.78	0.003312	0.027949
ENSOARG00000005369	ADI1	212.16	124.46	-1.7	0.003123	0.027949
ENSOARG00000014352	ADRB2	13.85	40.43	2.92	0.003171	0.027949
ENSOARG00000013966	AFP	217.38	97.95	-2.22	0.002973	0.027949
ENSOARG00000003763	AGO2	18.06	51.73	2.86	0.002981	0.027949
ENSOARG00000015422	AIFM1	44.42	27.23	-1.63	0.003435	0.027949
ENSOARG00000007961	AKAP17A	7.7	13.32	1.73	0.003194	0.027949
ENSOARG00000006253	ANGPT2	21.52	46.14	2.14	0.003437	0.027949
ENSOARG00000002688	ANK1	6.94	16.94	2.44	0.003346	0.027949
ENSOARG00000002515	APOC3	331.33	194.93	-1.7	0.003201	0.027949
ENSOARG00000003906	ARHGAP1	45.12	24.13	-1.87	0.003319	0.027949

ENSOARG00000003561	ARHGEF26	10.19	3.15	-3.23	0.002961	0.027949
ENSOARG00000002541	AS3MT	26.55	11.93	-2.23	0.003158	0.027949
ENSOARG00000010137	ASGR1	60.14	23.72	-2.54	0.003019	0.027949
ENSOARG00000019931	C1D	40.56	74.39	1.83	0.003127	0.027949
ENSOARG00000004913	CAMSAP1	9.16	17.16	1.87	0.003352	0.027949
ENSOARG00000009257	CDC73	22.82	38.32	1.68	0.003158	0.027949
ENSOARG00000014909	CEP104	11.91	24.16	2.03	0.003424	0.027949
ENSOARG00000021013	CGN	44.44	21.26	-2.09	0.003085	0.027949
ENSOARG00000017918	COMT	260.23	119.25	-2.18	0.00343	0.027949
ENSOARG00000017879	CUX2	10.23	2.43	-4.21	0.00331	0.027949
ENSOARG00000003499	DNAJB9	60.28	156.89	2.6	0.002975	0.027949
ENSOARG00000020153	DTX3L	18.61	8.71	-2.14	0.003103	0.027949
ENSOARG00000012836	EBF1	0.68	6.06	8.91	0.003402	0.027949
ENSOARG00000018379	EFEMP2	70.7	32.69	-2.16	0.003053	0.027949
ENSOARG00000013753	EGFR	43.87	130.17	2.97	0.003246	0.027949
ENSOARG00000016422	EVI5	12.95	20.86	1.61	0.003346	0.027949
ENSOARG00000002034	FLCN	19.18	36.38	1.9	0.003422	0.027949
ENSOARG00000010386	FOXA3	79.28	33.91	-2.34	0.003428	0.027949
ENSOARG00000019759	GMCL1	9.59	20.63	2.15	0.003436	0.027949
ENSOARG00000019160	GMPR2	47.59	21.35	-2.23	0.003074	0.027949
ENSOARG00000011517	GTF2IRD1	5.54	16.89	3.05	0.003042	0.027949
ENSOARG00000020306	GYS2	43.1	16.74	-2.57	0.003097	0.027949
ENSOARG00000016250	HSPA13	58.79	95.64	1.63	0.003279	0.027949
ENSOARG00000018980	IDH1	51.41	19.1	-2.69	0.003226	0.027949
ENSOARG00000013188	IFNAR1	68.03	27.94	-2.43	0.003367	0.027949
ENSOARG00000013309	IFNAR2	44.89	20.27	-2.21	0.003289	0.027949
ENSOARG00000004632	IGF2R	208.08	109.04	-1.91	0.003361	0.027949
ENSOARG00000002831	IMPDH1	16.08	8.8	-1.83	0.003196	0.027949
ENSOARG00000018132	ING3	11.7	19.46	1.66	0.003243	0.027949
ENSOARG00000010172	INTS12	16.43	27.19	1.65	0.003137	0.027949
ENSOARG00000020445	KCMF1	35.49	96.81	2.73	0.00342	0.027949
ENSOARG00000020664	KDM3A	17.5	33.59	1.92	0.003059	0.027949
ENSOARG00000012538	KDM7A	3.91	11.17	2.86	0.00342	0.027949
ENSOARG00000005247	KIAA0040	22.53	7.51	-3	0.003291	0.027949
ENSOARG00000002785	KIAA1217	34.12	22.27	-1.53	0.003444	0.027949
ENSOARG00000003774	KMT5A	26.54	54.23	2.04	0.00333	0.027949
ENSOARG00000003331	LUC7L3	52.58	23.67	-2.22	0.003296	0.027949
ENSOARG00000019101	MAP2	5.91	12.7	2.15	0.003324	0.027949
ENSOARG00000016128	MAP3K2	8.48	13.76	1.62	0.003317	0.027949
ENSOARG00000020516	MAT2A	40.39	22.87	-1.77	0.003152	0.027949
ENSOARG00000005136	MSH2	15.69	8.13	-1.93	0.003366	0.027949
ENSOARG00000002045	NR3C1	29.97	49.55	1.65	0.003147	0.027949
ENSOARG00000017705	NT5C3B	16.05	8.02	-2	0.003227	0.027949

ENSOARG00000012298	PAN3	10.76	17.93	1.67	0.003122	0.027949
ENSOARG00000012704	PCBP3	6.67	12.58	1.89	0.003298	0.027949
ENSOARG00000015620	PDZD11	51.88	34.61	-1.5	0.003401	0.027949
ENSOARG00000006530	PEX12	11.62	5.94	-1.96	0.003242	0.027949
ENSOARG00000017889	PHKA1	5.99	18	3.01	0.003042	0.027949
ENSOARG00000005127	PIGC	87.49	167.92	1.92	0.003251	0.027949
ENSOARG00000005981	PIGN	14.06	5.89	-2.39	0.003116	0.027949
ENSOARG00000014522	PLAA	26.22	45.27	1.73	0.003313	0.027949
ENSOARG00000019192	PLCXD2	5	11.79	2.36	0.003235	0.027949
ENSOARG00000002382	POMT2	24.87	40.04	1.61	0.00328	0.027949
ENSOARG00000012344	PPP1R15A	53.39	248.82	4.66	0.003442	0.027949
ENSOARG00000013460	RAB33B	25.23	43.81	1.74	0.003366	0.027949
ENSOARG00000013632	RB1CC1	43.72	79.44	1.82	0.003294	0.027949
ENSOARG00000006567	RMI2	15.38	3.21	-4.79	0.003253	0.027949
ENSOARG00000016739	ROBO1	20.46	12.41	-1.65	0.003091	0.027949
ENSOARG00000012003	RUSC2	6.29	12.24	1.95	0.0033	0.027949
ENSOARG00000005530	SHISAL2A	16.61	3.64	-4.56	0.002986	0.027949
ENSOARG00000011235	SIK1B	11.87	39.91	3.36	0.003107	0.027949
ENSOARG00000003327	SIPA1L2	11.98	20.28	1.69	0.003404	0.027949
ENSOARG00000012230	SLC6A11	29.58	16.25	-1.82	0.003408	0.027949
ENSOARG00000006314	SPRY3	44.44	7.83	-5.68	0.003254	0.027949
ENSOARG00000008779	SPRYD4	33.51	18.33	-1.83	0.003053	0.027949
ENSOARG00000017186	TENT4B	13.52	24.58	1.82	0.003074	0.027949
ENSOARG00000015940	TMCC3	15.66	31.9	2.04	0.003429	0.027949
ENSOARG00000010253	TMEM25	10.18	2.62	-3.89	0.003108	0.027949
ENSOARG00000012798	TMEM41B	24.04	46.83	1.95	0.003304	0.027949
ENSOARG00000013279	TRIO	21.02	53.84	2.56	0.003029	0.027949
ENSOARG00000006584	UGCG	12.98	47.64	3.67	0.003129	0.027949
ENSOARG00000014589	ZFC3H1	12.53	6.14	-2.04	0.002989	0.027949
ENSOARG00000000964	ZNF358	56.56	99.16	1.75	0.003308	0.027949
ENSOARG00000001314	ZNF628	7.44	33.34	4.48	0.003278	0.027949
ENSOARG00000012676	ZNF70	5.84	12.08	2.07	0.003003	0.027949
ENSOARG00000007797	ARRB2	15.6	7.24	-2.15	0.003482	0.02796
ENSOARG00000003541	CLK3	33.08	55.72	1.68	0.003474	0.02796
ENSOARG00000002452	SYNRG	18.43	10.68	-1.73	0.003477	0.02796
ENSOARG00000008633	YTHDC1	39.82	59.72	1.5	0.003462	0.02796
ENSOARG00000004487	YWHAB	129.88	82.85	-1.57	0.003467	0.02796
ENSOARG00000010246	ATP11C	11.5	5.99	-1.92	0.003528	0.027972
ENSOARG00000017028	DEPDC7	22.31	9.99	-2.23	0.003517	0.027972
ENSOARG00000012437	DHDH	7.95	17.12	2.15	0.003526	0.027972
ENSOARG00000017328	F3	32.41	85.18	2.63	0.003492	0.027972
ENSOARG00000020079	GPR176	7.21	1.38	-5.22	0.003508	0.027972
ENSOARG00000010087	STAP2	49.23	28.59	-1.72	0.003503	0.027972

ENSOARG00000018098	TBCEL	23.93	12.89	-1.86	0.003529	0.027972
ENSOARG00000015023	LOC101106976	27.01	2.7	-10	0.00356	0.028078
ENSOARG00000020552	TRA2B	155.6	101.95	-1.53	0.003549	0.028078
ENSOARG00000015223	SLC16A12	14.14	1.67	-8.47	0.00357	0.028117
ENSOARG00000010291	DMWD	16.1	31.41	1.95	0.003583	0.028153
ENSOARG00000009545	RELB	24.5	59.85	2.44	0.003586	0.028153
ENSOARG00000017814	ARL5B	11.95	30.74	2.57	0.003708	0.028175
ENSOARG00000007094	ASCC1	19.45	29.41	1.51	0.003655	0.028175
ENSOARG00000016386	ATG4D	20.82	47.27	2.27	0.003705	0.028175
ENSOARG00000020487	BCL6	38.54	70.23	1.82	0.003717	0.028175
ENSOARG00000020542	CDC20	10.09	3.02	-3.34	0.0036	0.028175
ENSOARG00000005878	CIDEC	3.11	8.68	2.79	0.003686	0.028175
ENSOARG00000005709	COBLL1	75.71	149.28	1.97	0.003659	0.028175
ENSOARG00000006454	DPP4	22.47	12.62	-1.78	0.003707	0.028175
ENSOARG00000007427	EPSTI1	32.66	11.05	-2.96	0.003715	0.028175
ENSOARG00000018441	FAM210B	74.54	49.39	-1.51	0.0037	0.028175
ENSOARG00000004059	G6PC	11.58	1.78	-6.51	0.003727	0.028175
ENSOARG00000008756	H6PD	127.32	63.76	-2	0.003725	0.028175
ENSOARG00000005036	KHDRBS3	22.53	52.9	2.35	0.003642	0.028175
ENSOARG00000020833	MYO1E	28.78	57.75	2.01	0.003725	0.028175
ENSOARG00000020863	MYZAP	38.32	68.9	1.8	0.003694	0.028175
ENSOARG00000020769	PLEKHO1	77.12	230.74	2.99	0.003699	0.028175
ENSOARG00000008880	SH2D5	3.29	23.46	7.13	0.003735	0.028175
ENSOARG00000002485	SSNA1	111.62	74.52	-1.5	0.003615	0.028175
ENSOARG00000009026	TMEM215	11.97	74.19	6.2	0.003598	0.028175
ENSOARG00000008882	TNKS1BP1	53.46	32.22	-1.66	0.00367	0.028175
ENSOARG00000019099	TRIM34	8.37	2.05	-4.08	0.003721	0.028175
ENSOARG00000012931	UBE2D1	25.58	53.51	2.09	0.003643	0.028175
ENSOARG00000021177	ZFP36L1	364.15	938.7	2.58	0.003725	0.028175
ENSOARG00000008207	SETD1A	11.33	18.66	1.65	0.003741	0.028177
ENSOARG00000009524	DNAJC16	13.25	20.01	1.51	0.003759	0.028207
ENSOARG00000004178	GTF2I	34.11	14.17	-2.41	0.003754	0.028207
ENSOARG00000002815	PACS1	38.92	58.68	1.51	0.003759	0.028207
ENSOARG00000014942	MMAB	19.43	10.33	-1.88	0.00377	0.028257
ENSOARG00000020101	EIF2AK4	15.01	7.36	-2.04	0.003794	0.028398
ENSOARG00000011159	CLIP1	50.96	100.51	1.97	0.003799	0.0284
ENSOARG00000010704	ADRA2A	7.94	1.22	-6.51	0.003818	0.028486
ENSOARG00000018810	CEP120	16.45	30.07	1.83	0.003819	0.028486
ENSOARG00000004938	COG4	20.13	8.93	-2.25	0.00384	0.028516
ENSOARG00000010839	MPP6	7.68	14.57	1.9	0.003845	0.028516
ENSOARG00000002683	SQSTM1	732.11	1759.16	2.4	0.003846	0.028516
ENSOARG00000012095	STAMBP	13.32	52.87	3.97	0.00383	0.028516
ENSOARG00000003340	ZFP91	33.97	58.86	1.73	0.003837	0.028516

ENSOARG00000014591	AZI2	38.46	60.74	1.58	0.003873	0.028543
ENSOARG00000019210	CPS1	126.85	25.09	-5.06	0.003897	0.028543
ENSOARG00000020267	GCHFR	58.41	36.49	-1.6	0.00391	0.028543
ENSOARG00000009630	MLLT6	18.57	12.37	-1.5	0.003894	0.028543
ENSOARG00000004500	NAMPT	23.93	52.38	2.19	0.003864	0.028543
ENSOARG00000012715	PTGIS	17.16	9.24	-1.86	0.003907	0.028543
ENSOARG00000017883	RBM38	26.97	43.07	1.6	0.00388	0.028543
ENSOARG00000001822	SFXN2	9.06	3.41	-2.66	0.003897	0.028543
ENSOARG00000007620	SLC25A30	39.04	89.41	2.29	0.003878	0.028543
ENSOARG00000003229	TRAK1	24.45	50.8	2.08	0.003884	0.028543
ENSOARG00000015280	ANKRD28	27.59	46.87	1.7	0.003947	0.028554
ENSOARG00000005606	C18orf21	19.92	31.25	1.57	0.003942	0.028554
ENSOARG00000012570	C8orf33	25.78	10.73	-2.4	0.003946	0.028554
ENSOARG00000010972	CCDC9	15.6	43.12	2.76	0.003933	0.028554
ENSOARG00000017521	HBEGF	6.42	14.19	2.21	0.003923	0.028554
ENSOARG00000020454	P3H1	41.05	24.74	-1.66	0.003949	0.028554
ENSOARG00000020405	WDFY1	30.69	54.38	1.77	0.003922	0.028554
ENSOARG00000010666	AKAP13	15.19	27.43	1.81	0.004005	0.028572
ENSOARG00000013614	ANTKMT	15.57	5.4	-2.88	0.003996	0.028572
ENSOARG00000015162	BTBD9	31.58	15.7	-2.01	0.004004	0.028572
ENSOARG00000005302	DBN1	35.35	20.41	-1.73	0.003961	0.028572
ENSOARG00000000793	DPH7	29.79	18.21	-1.64	0.004022	0.028572
ENSOARG00000004822	FBXO21	25.08	15.05	-1.67	0.003978	0.028572
ENSOARG00000001834	FLVCR2	18.33	29.58	1.61	0.004029	0.028572
ENSOARG00000005547	GTF3C5	18.45	9.84	-1.88	0.004019	0.028572
ENSOARG00000000725	MAP3K20	18.69	11.71	-1.6	0.003976	0.028572
ENSOARG00000021198	PCNX1	27.95	55.56	1.99	0.00399	0.028572
ENSOARG00000004132	PIM1	5.65	28.88	5.11	0.003997	0.028572
ENSOARG00000016943	SESTD1	55.22	124.66	2.26	0.003996	0.028572
ENSOARG00000019446	TNS1	40.02	82.81	2.07	0.003999	0.028572
ENSOARG00000007592	PTGS2	41.34	106.39	2.57	0.004048	0.028639
ENSOARG00000008283	F11	9.28	1.97	-4.71	0.004075	0.028688
ENSOARG00000019342	HOMEZ	25.66	13.29	-1.93	0.004069	0.028688
ENSOARG00000019300	PFKM	14.99	9.1	-1.65	0.00406	0.028688
ENSOARG00000012621	SLCO4A1	9.62	15.42	1.6	0.004083	0.028688
ENSOARG00000016264	VPS37C	27.58	60.4	2.19	0.004081	0.028688
ENSOARG00000016793	GGH	53.55	29.3	-1.83	0.00409	0.028695
ENSOARG00000008755	HEMK1	15.17	9.4	-1.61	0.004128	0.028777
ENSOARG00000020673	ITM2C	232.27	145.32	-1.6	0.004111	0.028777
ENSOARG00000018123	SARM1	16.42	7.16	-2.29	0.004119	0.028777
ENSOARG00000017174	SLAIN2	25.63	55.84	2.18	0.004158	0.028951
ENSOARG00000009561	-	43.54	28.39	-1.53	0.004184	0.029102
ENSOARG00000002894	RTN4	41.13	104.06	2.53	0.004196	0.029121

ENSOARG00000020627	SOS2	8.81	15.83	1.8	0.004198	0.029121
ENSOARG00000015526	ACHE	2.84	8.01	2.82	0.004236	0.029165
ENSOARG00000007717	GIN51	13.73	5.06	-2.71	0.00422	0.029165
ENSOARG00000017581	KDM6B	25.06	54.47	2.17	0.004233	0.029165
ENSOARG00000008180	PTPRS	12.65	5.91	-2.14	0.004218	0.029165
ENSOARG00000017557	SPECC1	20.94	53.41	2.55	0.004259	0.029294
ENSOARG00000015988	FGD6	14.86	24.13	1.62	0.004278	0.029355
ENSOARG00000014515	MEX3B	5.04	12.46	2.47	0.004274	0.029355
ENSOARG00000001644	EXT2	81.01	40.9	-1.98	0.004317	0.029453
ENSOARG00000015083	GSTA4	7.72	2.12	-3.64	0.004321	0.029453
ENSOARG00000005734	LMAN1	63.51	34.33	-1.85	0.004308	0.029453
ENSOARG00000008557	RITA1	31.67	56.22	1.78	0.004314	0.029453
ENSOARG00000013428	ZNF555	2.66	8.11	3.05	0.004308	0.029453
ENSOARG00000018048	KCND2	2.49	7.82	3.14	0.004338	0.029538
ENSOARG00000006322	LIF	7.7	39.13	5.08	0.004348	0.029545
ENSOARG00000004268	TARDBP	13.46	7.49	-1.8	0.004346	0.029545
ENSOARG00000008460	BRF1	11.67	18.69	1.6	0.004371	0.029568
ENSOARG00000000464	IL20RA	19.91	2.63	-7.57	0.004371	0.029568
ENSOARG00000018257	TRIM3	11.84	33.33	2.82	0.004366	0.029568
ENSOARG00000007500	TCEA3	39.24	10.25	-3.83	0.00438	0.029596
ENSOARG00000003535	ERICH5	25.15	5.24	-4.8	0.004396	0.029643
ENSOARG00000011910	LIMK1	18.43	37.26	2.02	0.004409	0.029695
ENSOARG00000012473	RAP2C	95.41	61.02	-1.56	0.004426	0.029776
ENSOARG00000010560	F9	57.07	27.12	-2.1	0.004443	0.029861
ENSOARG00000003144	SPAG9	34.09	88.56	2.6	0.004448	0.029862
ENSOARG00000013887	NFIB	17.27	7.32	-2.36	0.004454	0.029866
ENSOARG00000005479	ARGLU1	105.63	56.17	-1.88	0.004476	0.02987
ENSOARG00000004591	HIRIP3	19.18	12.27	-1.56	0.004482	0.02987
ENSOARG00000008537	NAV2	8.55	13.65	1.6	0.004466	0.02987
ENSOARG00000010083	SLC25A37	38.5	59.22	1.54	0.004476	0.02987
ENSOARG00000018948	UBE2F	28.37	52.59	1.85	0.004483	0.02987
ENSOARG00000000870	-	512.33	1021.19	1.99	0.004512	0.029917
ENSOARG00000000369	ECHS1	129.04	72.44	-1.78	0.004502	0.029917
ENSOARG00000007524	PLEKHN1	9.25	36.34	3.93	0.004505	0.029917
ENSOARG00000025635	-	112.61	194.43	1.73	0.004544	0.030063
ENSOARG00000006271	ALAD	84.75	32.57	-2.6	0.004551	0.030063
ENSOARG00000013683	LMNB2	28.87	18.59	-1.55	0.004548	0.030063
ENSOARG00000003979	RABEP1	46.74	83.06	1.78	0.004566	0.030092
ENSOARG00000005377	DUSP8	20.86	66.15	3.17	0.004575	0.030092
ENSOARG00000009716	EXOC3L2	11.88	5.54	-2.14	0.004583	0.030113
ENSOARG00000002278	MAGEF1	11.93	3.93	-3.04	0.004588	0.030116
ENSOARG00000020773	CA14	12.27	2.11	-5.82	0.004647	0.030132
ENSOARG00000019089	DHX9	34.02	19.35	-1.76	0.004637	0.030132

ENSOARG00000009426	FRK	7.77	38.53	4.96	0.00461	0.030132
ENSOARG00000020674	FXR1	25.01	40.3	1.61	0.004649	0.030132
ENSOARG00000017278	JMY	12.09	53.13	4.39	0.004642	0.030132
ENSOARG00000016210	NAB1	21.02	34.89	1.66	0.0046	0.030132
ENSOARG00000014538	SLC25A45	15.05	2.13	-7.07	0.004624	0.030132
ENSOARG00000013015	TAMM41	12.86	6.2	-2.07	0.004638	0.030132
ENSOARG00000020962	TMOD2	11.86	29.24	2.47	0.004629	0.030132
ENSOARG00000009215	WDR46	27.65	16.41	-1.68	0.004625	0.030132
ENSOARG00000010448	ERBB3	96.44	36.83	-2.62	0.004658	0.030157
ENSOARG00000020045	-	14.77	8.1	-1.82	0.004694	0.030222
ENSOARG00000003314	POLB	9.07	14.41	1.59	0.00468	0.030222
ENSOARG00000004074	RIN1	10.45	4.04	-2.59	0.004702	0.030222
ENSOARG00000013779	SOX9	13.56	33.23	2.45	0.004682	0.030222
ENSOARG00000007547	LOC101110151	78.78	184.62	2.34	0.004713	0.030251
ENSOARG00000016549	LONRF3	6.47	48.3	7.47	0.004721	0.030251
ENSOARG00000015995	POLR2D	26.42	15.46	-1.71	0.004718	0.030251
ENSOARG00000012001	MLXIP	20.4	32.13	1.57	0.004732	0.030255
ENSOARG00000009476	DLG5	45.73	73.62	1.61	0.00475	0.030292
ENSOARG00000016378	FEM1C	30.63	131.13	4.28	0.004744	0.030292
ENSOARG00000009330	LYPD6	5.2	14.68	2.82	0.004757	0.030292
ENSOARG00000002807	MED20	14.67	9.17	-1.6	0.004753	0.030292
ENSOARG00000011438	KANSL1	26.64	68.1	2.56	0.004764	0.030301
ENSOARG00000016052	AOX1	49.21	13.66	-3.6	0.004778	0.030331
ENSOARG00000005539	MEST	19.41	7.01	-2.77	0.004775	0.030331
ENSOARG00000002586	APOA1	859.76	419.78	-2.05	0.004807	0.030414
ENSOARG00000017009	CENPV	12.91	7.18	-1.8	0.004824	0.030414
ENSOARG00000010306	PPP3CC	17.92	32.51	1.81	0.004826	0.030414
ENSOARG00000003971	SPATA6	6.72	14.47	2.15	0.004822	0.030414
ENSOARG00000005027	TMEM209	23.42	14.28	-1.64	0.004822	0.030414
ENSOARG00000020221	USP34	13.87	21.17	1.53	0.004825	0.030414
ENSOARG00000009359	DCAF12	94.32	194.56	2.06	0.004844	0.030468
ENSOARG00000005321	PMM2	32.51	14.43	-2.25	0.00484	0.030468
ENSOARG00000003961	HNRNPM	260.46	163.53	-1.59	0.00487	0.030506
ENSOARG00000019973	RASSF8	22.55	87.73	3.89	0.004867	0.030506
ENSOARG00000017352	SHROOM3	12.81	39.74	3.1	0.004864	0.030506
ENSOARG00000014392	SMIM3	73.79	24.64	-2.99	0.004868	0.030506
ENSOARG00000007774	CYTIP	4.76	10.65	2.24	0.004896	0.030606
ENSOARG00000013724	PEX26	10.36	5.01	-2.07	0.004908	0.030623
ENSOARG00000009401	PTGER4	8.73	17.13	1.96	0.004908	0.030623
ENSOARG00000026818	-	10.73	4.33	-2.48	0.005041	0.030694
ENSOARG00000013118	ACADS	60.1	29.25	-2.05	0.004951	0.030694
ENSOARG00000009599	ALDH1A3	7.71	23.6	3.06	0.005041	0.030694
ENSOARG00000000371	BEX2	150.41	81.88	-1.84	0.005066	0.030694

ENSOARG00000021069	BMP4	13.39	4.92	-2.72	0.004973	0.030694
ENSOARG00000007763	ETV1	21.63	14.45	-1.5	0.005052	0.030694
ENSOARG00000003213	FAM241A	66.39	37.2	-1.78	0.005008	0.030694
ENSOARG00000008304	GYG2	16.48	9.92	-1.66	0.005025	0.030694
ENSOARG00000004840	HERC4	13.86	25.15	1.81	0.005093	0.030694
ENSOARG00000014425	MERTK	22.22	34.5	1.55	0.005072	0.030694
ENSOARG00000011743	MPEG1	161.47	106.52	-1.52	0.005075	0.030694
ENSOARG00000020025	PELI1	28.98	147.05	5.07	0.00504	0.030694
ENSOARG00000016828	PLVAP	58.77	26.27	-2.24	0.005011	0.030694
ENSOARG00000006659	PTGR1	125.95	50.52	-2.49	0.005064	0.030694
ENSOARG00000000924	RBM7	14.05	28.89	2.06	0.005057	0.030694
ENSOARG00000001570	RCN2	26	43.92	1.69	0.005093	0.030694
ENSOARG00000019612	SALL2	15.38	1.8	-8.54	0.005051	0.030694
ENSOARG00000008681	SPSB1	58.9	195.41	3.32	0.004982	0.030694
ENSOARG00000019012	SRXN1	67.6	132.07	1.95	0.004953	0.030694
ENSOARG00000008357	STAM2	24.88	39.86	1.6	0.00506	0.030694
ENSOARG00000002155	TAF1D	32.35	53.25	1.65	0.005066	0.030694
ENSOARG00000014625	TMEM19	18.62	11.31	-1.65	0.005049	0.030694
ENSOARG00000019713	TMEM37	10.44	3.96	-2.64	0.005052	0.030694
ENSOARG00000016843	TTPA	28.21	10.6	-2.66	0.005093	0.030694
ENSOARG00000020396	XXYLT1	17.07	8.52	-2	0.004957	0.030694
ENSOARG00000020655	B3GNT5	7.87	20.23	2.57	0.005115	0.030749
ENSOARG00000020150	PARP9	17.77	9.33	-1.9	0.005117	0.030749
ENSOARG00000004276	SNX9	51.82	99.83	1.93	0.005138	0.030816
ENSOARG00000010643	TIMD4	20.84	10.25	-2.03	0.005137	0.030816
ENSOARG00000018223	ATXN2	34.77	52.96	1.52	0.005151	0.03084
ENSOARG00000013993	LRRCC1	8.54	19.34	2.26	0.005167	0.03084
ENSOARG00000007640	PLEKHA6	19.81	10	-1.98	0.005163	0.03084
ENSOARG00000009787	RNF41	30.48	75.84	2.49	0.005171	0.03084
ENSOARG00000018615	SAMD9	9.47	3.67	-2.58	0.005161	0.03084
ENSOARG00000019806	PLXNB2	51.98	31.93	-1.63	0.005181	0.030862
ENSOARG00000004351	KRT18	175.39	48.61	-3.61	0.005194	0.030902
ENSOARG00000017717	SPG21	34.04	66.77	1.96	0.005198	0.030902
ENSOARG00000018391	GRAP	12.55	7.32	-1.71	0.005207	0.030927
ENSOARG00000005090	-	127.22	83.56	-1.52	0.005398	0.030935
ENSOARG00000018454	ABTB2	27.84	69.05	2.48	0.005225	0.030935
ENSOARG00000015385	AGTR1	151.8	60.1	-2.53	0.005218	0.030935
ENSOARG00000008188	ANXA6	202.61	96.27	-2.1	0.00545	0.030935
ENSOARG00000013479	CDK16	65.02	39.12	-1.66	0.005508	0.030935
ENSOARG00000013829	CHUK	10.03	16.07	1.6	0.00535	0.030935
ENSOARG00000006198	CPT2	51.26	23.18	-2.21	0.005418	0.030935
ENSOARG00000015263	CTSB	1025.35	2842.15	2.77	0.005371	0.030935
ENSOARG00000014744	DHRS3	48.91	14.47	-3.38	0.005403	0.030935

ENSOARG00000007114	ELOVL7	8.18	13.94	1.7	0.005519	0.030935
ENSOARG00000017807	ERAP1	25.18	9.52	-2.64	0.005423	0.030935
ENSOARG00000011152	FAM221A	3.51	14.37	4.09	0.005493	0.030935
ENSOARG00000014847	FBXL21P	6.78	17.67	2.61	0.005311	0.030935
ENSOARG00000016414	FOXK2	36.83	67.48	1.83	0.005457	0.030935
ENSOARG00000007061	FXYD6	68.62	41.53	-1.65	0.005435	0.030935
ENSOARG00000020262	H2AJ	129.25	81.85	-1.58	0.005444	0.030935
ENSOARG00000011472	HNRNPDL	77.44	121.31	1.57	0.005313	0.030935
ENSOARG00000000414	HYI	27.74	6.74	-4.12	0.005426	0.030935
ENSOARG00000006609	INSIG1	37.18	115.7	3.11	0.005387	0.030935
ENSOARG00000004429	IVNS1ABP	68.72	671.85	9.78	0.005354	0.030935
ENSOARG00000019122	KLF2	36.37	24.31	-1.5	0.005398	0.030935
ENSOARG00000015347	KPNA2	90.96	58.5	-1.55	0.005227	0.030935
ENSOARG00000003571	LYST	3.59	8.92	2.48	0.005326	0.030935
ENSOARG00000012987	MGST2	132.69	71.99	-1.84	0.00546	0.030935
ENSOARG00000011029	N4BP2L1	79.13	43.34	-1.83	0.005495	0.030935
ENSOARG00000007371	NIPSNAP3B	13.71	7.25	-1.89	0.005404	0.030935
ENSOARG00000003009	NT5C2	80.34	52.46	-1.53	0.005426	0.030935
ENSOARG00000017196	PARD3	73.26	118.51	1.62	0.005422	0.030935
ENSOARG00000000811	PARP1	63.16	37.65	-1.68	0.005395	0.030935
ENSOARG00000019206	PHLDB2	55.74	144.34	2.59	0.005524	0.030935
ENSOARG00000009984	PLAC9	16.67	10.85	-1.54	0.005512	0.030935
ENSOARG00000010372	POLR3D	32.83	57.22	1.74	0.005472	0.030935
ENSOARG00000005581	PPARGC1A	6.84	15.74	2.3	0.005249	0.030935
ENSOARG00000020389	PPP1R2	36.73	78.45	2.14	0.005474	0.030935
ENSOARG00000006832	PRRC2B	26.68	40.33	1.51	0.005464	0.030935
ENSOARG00000014124	PTPRE	14.12	25.11	1.78	0.005235	0.030935
ENSOARG00000005716	QPRT	97.99	24.27	-4.04	0.005245	0.030935
ENSOARG00000002641	RBAK	6.44	18.19	2.82	0.005514	0.030935
ENSOARG00000000341	RNPEP	13.6	8.49	-1.6	0.005337	0.030935
ENSOARG00000008746	SAMD8	14.67	47.74	3.25	0.005374	0.030935
ENSOARG00000002227	SCHIP1	45.56	98.34	2.16	0.005512	0.030935
ENSOARG00000014948	SH3BP2	16.05	26.73	1.67	0.005271	0.030935
ENSOARG00000013180	SHROOM1	32.95	11.43	-2.88	0.005241	0.030935
ENSOARG00000009838	SLC16A11	11.17	3.18	-3.51	0.005367	0.030935
ENSOARG00000008152	SUGP1	19.83	11.57	-1.71	0.005475	0.030935
ENSOARG00000013648	UHRF2	16.63	50.03	3.01	0.005333	0.030935
ENSOARG00000009183	WBP2	193.89	293.42	1.51	0.00531	0.030935
ENSOARG00000012355	WEE1	67.5	239.88	3.55	0.005321	0.030935
ENSOARG00000008244	ZBTB17	11.79	28.96	2.46	0.005506	0.030935
ENSOARG00000011138	ZDHHC7	85.11	149.9	1.76	0.005245	0.030935
ENSOARG00000016398	ZNRD1	27.16	47.07	1.73	0.005494	0.030935
ENSOARG00000000002	-	28.6	54.29	1.9	0.00566	0.030979

ENSOARG00000003405	-	89.02	50.17	-1.77	0.005977	0.030979
ENSOARG00000009336	AIMP1	10.06	15.07	1.5	0.00581	0.030979
ENSOARG00000003568	AKAP8	28.65	18.98	-1.51	0.005672	0.030979
ENSOARG00000009450	ANGPTL3	134.29	36.43	-3.69	0.00585	0.030979
ENSOARG00000014563	ANKS4B	80.28	24.14	-3.33	0.005582	0.030979
ENSOARG00000018958	ARIH1	37.5	117.73	3.14	0.005868	0.030979
ENSOARG00000007525	AXL	50.19	30.73	-1.63	0.005891	0.030979
ENSOARG00000014393	BACH1	43.52	66.52	1.53	0.005551	0.030979
ENSOARG00000018738	BMP2	22.39	46.45	2.07	0.005959	0.030979
ENSOARG00000015230	BTB	70.16	35.73	-1.96	0.005834	0.030979
ENSOARG00000002673	CBFB	64.05	232.27	3.63	0.005895	0.030979
ENSOARG00000019063	CBLN3	8.93	1.7	-5.25	0.005953	0.030979
ENSOARG00000015923	CHDH	10.62	1.7	-6.25	0.006002	0.030979
ENSOARG00000006692	CLK4	14.49	29.49	2.04	0.005896	0.030979
ENSOARG00000010462	CXCR4	69.98	225.01	3.22	0.005653	0.030979
ENSOARG00000011818	CYTH2	42.96	83.4	1.94	0.005868	0.030979
ENSOARG00000000227	DCAF4	11.82	17.97	1.52	0.005848	0.030979
ENSOARG00000012189	DGAT2	55.32	23.44	-2.36	0.005872	0.030979
ENSOARG00000015361	DPH3	31.24	49.68	1.59	0.005589	0.030979
ENSOARG00000006334	DYRK1B	12.37	23.95	1.94	0.005857	0.030979
ENSOARG00000003363	FOXN3	15.05	23.29	1.55	0.005778	0.030979
ENSOARG00000007446	GSTO1	94.64	39.25	-2.41	0.00581	0.030979
ENSOARG00000011742	HIPK2	12.25	26.73	2.18	0.005757	0.030979
ENSOARG00000014186	HSF1	62.36	100.41	1.61	0.00561	0.030979
ENSOARG00000012687	IPO7	76.71	147.96	1.93	0.005954	0.030979
ENSOARG00000015578	LRRC8C	29.48	86.71	2.94	0.00571	0.030979
ENSOARG00000000082	MARCHF5	33.74	61.8	1.83	0.005606	0.030979
ENSOARG00000009878	MEF2A	22.69	79.1	3.49	0.005769	0.030979
ENSOARG00000013952	MORC3	11.54	26.18	2.27	0.005857	0.030979
ENSOARG00000005356	MVP	59.61	29.33	-2.03	0.005639	0.030979
ENSOARG00000001695	NCF2	9.32	24.02	2.58	0.005971	0.030979
ENSOARG00000008096	NCS1	5.35	13.1	2.45	0.005996	0.030979
ENSOARG00000003453	NMRAL1	53.23	14.81	-3.59	0.005986	0.030979
ENSOARG00000016145	NPTXR	12.36	5.31	-2.33	0.005968	0.030979
ENSOARG00000004526	NR1D2	29.17	82.63	2.83	0.005769	0.030979
ENSOARG00000015967	NR2C1	15.52	26.37	1.7	0.005965	0.030979
ENSOARG00000019074	NYNRIN	12.04	4.38	-2.75	0.005679	0.030979
ENSOARG00000000612	PERP	222.18	138.14	-1.61	0.005906	0.030979
ENSOARG00000000800	PEX11G	18.54	9.93	-1.87	0.005885	0.030979
ENSOARG00000016405	PHKB	17.02	10.61	-1.6	0.0057	0.030979
ENSOARG00000017005	POLR1D	213.02	358.63	1.68	0.005571	0.030979
ENSOARG00000019427	PPARA	21.49	11.4	-1.89	0.005954	0.030979
ENSOARG00000003396	RAB34	41.37	21.62	-1.91	0.005992	0.030979

ENSOARG00000020254	RAD51	9.11	3.37	-2.7	0.005891	0.030979
ENSOARG00000007264	RAD54L2	11.65	17.9	1.54	0.005627	0.030979
ENSOARG00000000615	RBBP9	31.18	8.59	-3.63	0.005788	0.030979
ENSOARG00000001658	RFLNA	62.24	158.55	2.55	0.005691	0.030979
ENSOARG00000010378	RFXAP	13.68	8.14	-1.68	0.005744	0.030979
ENSOARG00000017675	RNASEH2C	20.24	7.66	-2.64	0.005883	0.030979
ENSOARG00000010155	RNF144B	9.82	20.79	2.12	0.005732	0.030979
ENSOARG00000004525	RNF187	19.78	5.61	-3.53	0.005943	0.030979
ENSOARG00000020495	RTP4	9.55	2.51	-3.8	0.005903	0.030979
ENSOARG00000011668	SBF2	21.54	32.24	1.5	0.005923	0.030979
ENSOARG00000020966	SCG3	28.24	92.55	3.28	0.005772	0.030979
ENSOARG00000013981	SNAPC3	9.85	17.23	1.75	0.005783	0.030979
ENSOARG00000008253	TAPBPL	45.52	17.17	-2.65	0.005814	0.030979
ENSOARG00000016534	TFPI	75.61	38.47	-1.97	0.005865	0.030979
ENSOARG00000001756	TMEM176A	73.98	28.2	-2.62	0.005866	0.030979
ENSOARG00000011271	TMOD1	62.87	218.88	3.48	0.005858	0.030979
ENSOARG00000019450	TTC38	38.69	14.32	-2.7	0.005648	0.030979
ENSOARG00000008294	UROC1	27.08	8.02	-3.38	0.005849	0.030979
ENSOARG00000012244	VTI1A	9.9	15.24	1.54	0.005998	0.030979
ENSOARG00000000960	XPO6	97.41	169.38	1.74	0.005595	0.030979
ENSOARG00000019385	ZNF512	19.63	10.76	-1.82	0.005686	0.030979
ENSOARG00000009259	ZNF512B	32.9	13.59	-2.42	0.005596	0.030979
ENSOARG00000007437	VPS37B	12.94	28.61	2.21	0.006044	0.031118
ENSOARG00000020347	FBXO45	3.98	10.6	2.66	0.006064	0.031123
ENSOARG00000006739	G6PC3	36.22	16.74	-2.16	0.006056	0.031123
ENSOARG00000011866	PGAP6	62.56	35.04	-1.79	0.006066	0.031123
ENSOARG00000003654	SMAD2	38.54	58.7	1.52	0.006058	0.031123
ENSOARG00000019402	AMN1	8.37	15.65	1.87	0.006085	0.031168
ENSOARG00000014629	CUX1	16.69	26.95	1.61	0.006086	0.031168
ENSOARG00000013057	POM121C	34.52	56.15	1.63	0.006094	0.031168
ENSOARG00000012245	MTMR12	15.28	9.19	-1.66	0.006111	0.031224
ENSOARG00000020946	TMOD4	16.01	5.11	-3.13	0.006122	0.031258
ENSOARG00000002261	COQ2	33.4	13.6	-2.46	0.006152	0.03136
ENSOARG00000020677	C2orf72	45.22	7.73	-5.85	0.006217	0.031455
ENSOARG00000012440	GDF15	11.48	103.81	9.04	0.006198	0.031455
ENSOARG00000016214	JPT2	104.24	61.92	-1.68	0.006208	0.031455
ENSOARG00000011565	LIG1	17.74	10.64	-1.67	0.006209	0.031455
ENSOARG00000014630	MKNK2	70.8	155.27	2.19	0.006216	0.031455
ENSOARG00000008860	NFIA	21.42	9.81	-2.18	0.006207	0.031455
ENSOARG00000010266	SPOPL	7.03	12.81	1.82	0.006184	0.031455
ENSOARG00000002837	CCDC117	29.91	49.16	1.64	0.00623	0.031498
ENSOARG00000012235	SLC9A3R1	212.69	101.88	-2.09	0.006243	0.031535
ENSOARG00000020867	CGNL1	50.72	87.51	1.73	0.006289	0.031663

ENSOARG00000010801	PRICKLE3	6.25	12.75	2.04	0.006282	0.031663
ENSOARG00000014129	AFM	104.35	40.82	-2.56	0.006311	0.031751
ENSOARG00000024349	uc_338	20.46	9.64	-2.12	0.006317	0.031752
ENSOARG00000025944	-	26.46	98.06	3.71	0.006404	0.031874
ENSOARG00000011512	ALDH9A1	110.55	49.55	-2.23	0.006485	0.031874
ENSOARG00000001160	ARAP3	33.46	57.64	1.72	0.006455	0.031874
ENSOARG00000002627	ATRN	46.08	76.6	1.66	0.006401	0.031874
ENSOARG00000008913	CSRP3	61.29	127.79	2.09	0.006389	0.031874
ENSOARG00000019670	CTTNBP2NL	32.2	79.58	2.47	0.006484	0.031874
ENSOARG00000015832	DEGS1	45.94	114.16	2.48	0.006506	0.031874
ENSOARG00000006604	FKBP9	75.49	48.62	-1.55	0.006411	0.031874
ENSOARG00000013637	FTSJ3	19.29	11.87	-1.63	0.00649	0.031874
ENSOARG00000016773	KRT18	248.14	72.03	-3.44	0.006408	0.031874
ENSOARG00000016246	MFSD6	17.46	37.48	2.15	0.006455	0.031874
ENSOARG00000003781	OSER1	68.18	222.65	3.27	0.006421	0.031874
ENSOARG00000016657	PCSK6	133.22	71.65	-1.86	0.00645	0.031874
ENSOARG00000003311	POFUT1	31.01	16.51	-1.88	0.006503	0.031874
ENSOARG00000020584	POLR2H	45.04	72.1	1.6	0.006418	0.031874
ENSOARG00000004441	SLC41A1	32.33	102.44	3.17	0.006496	0.031874
ENSOARG00000019802	STK38L	15.48	56.17	3.63	0.006465	0.031874
ENSOARG00000003890	TAT	23.49	10.43	-2.25	0.006429	0.031874
ENSOARG00000000813	TECPR1	20	6.02	-3.32	0.006483	0.031874
ENSOARG00000005516	TUBB4A	255.43	48.13	-5.31	0.006467	0.031874
ENSOARG00000007659	UPP2	6.56	1.31	-5.01	0.006435	0.031874
ENSOARG00000010360	XYLT1	8.36	21.56	2.58	0.006368	0.031874
ENSOARG00000019548	B3GNT2	60.48	159.31	2.63	0.00653	0.031957
ENSOARG00000019412	SPICE1	19.12	4.5	-4.25	0.006533	0.031957
ENSOARG00000005499	EXOC3L4	14.2	5.09	-2.79	0.006546	0.031997
ENSOARG00000007039	AGRN	33.52	10.47	-3.2	0.006556	0.032021
ENSOARG00000010247	ATAD2	15.24	26.86	1.76	0.006607	0.03209
ENSOARG00000017411	CSRNP2	7.67	29.69	3.87	0.006612	0.03209
ENSOARG00000000580	FLII	86.64	141.75	1.64	0.006628	0.03209
ENSOARG00000017627	GPCPD1	5.76	14.63	2.54	0.006637	0.03209
ENSOARG00000005661	PSMD5	49.53	32.7	-1.51	0.006601	0.03209
ENSOARG00000005730	STRN3	24.48	79.7	3.26	0.006637	0.03209
ENSOARG00000016445	UBXN1	125.51	203.22	1.62	0.006634	0.03209
ENSOARG00000020827	GTF2A2	115.73	188.45	1.63	0.006643	0.03209
ENSOARG00000004846	ZNF280B	4.73	14.14	2.99	0.006649	0.032093
ENSOARG00000006798	DSC2	44.88	18.82	-2.38	0.006664	0.032116
ENSOARG00000000151	LNPK	10.55	16.49	1.56	0.006669	0.032116
ENSOARG00000000373	CCSER2	9.33	19.7	2.11	0.006719	0.032125
ENSOARG00000021064	FERMT2	124.76	191.77	1.54	0.006705	0.032125
ENSOARG00000020923	NCK2	41.53	69.32	1.67	0.006702	0.032125

ENSOARG00000007707	NRCAM	4.59	16.77	3.65	0.006723	0.032125
ENSOARG00000019233	TAGLN3	24.78	116.69	4.71	0.006706	0.032125
ENSOARG00000018172	TMEM205	132.92	72.87	-1.82	0.006717	0.032125
ENSOARG00000004604	TSC22D2	39.99	94.14	2.35	0.006696	0.032125
ENSOARG00000010418	ATF6	28.57	54.23	1.9	0.006735	0.032143
ENSOARG00000007389	LOC101112480	31.05	19.88	-1.56	0.006737	0.032143
ENSOARG00000010845	CLDN3	54.46	86.65	1.59	0.006772	0.032182
ENSOARG00000017694	CLDND1	44.64	94.63	2.12	0.006777	0.032182
ENSOARG00000009090	CYP1B1	32.01	52.38	1.64	0.006761	0.032182
ENSOARG00000010025	SULT1E1	48.37	9.27	-5.22	0.00677	0.032182
ENSOARG00000019140	TSPO	138.16	89.31	-1.55	0.006794	0.032219
ENSOARG00000019528	LOC101116390	9.91	34.1	3.44	0.006806	0.032236
ENSOARG00000002742	RAP2A	14.45	27.83	1.93	0.006809	0.032236
ENSOARG00000006835	FAM107B	73.45	24.98	-2.94	0.006841	0.032289
ENSOARG00000006142	IFIH1	21.58	11.68	-1.85	0.006837	0.032289
ENSOARG00000019974	TSPYL4	22.87	5.51	-4.15	0.006849	0.032301
ENSOARG00000005652	CDCA3	8.15	2.93	-2.78	0.006858	0.032318
ENSOARG00000000067	ANP32A	87.38	37.28	-2.34	0.006871	0.032334
ENSOARG00000011793	POGK	15.71	25.04	1.59	0.006871	0.032334
ENSOARG00000017907	ZBTB39	8.44	22.01	2.61	0.006881	0.032354
ENSOARG00000012724	FLNB	52.2	122.01	2.34	0.006907	0.032366
ENSOARG00000002410	IFRD1	10.18	45.2	4.44	0.00691	0.032366
ENSOARG00000006947	ITPKC	29.88	161.78	5.41	0.006896	0.032366
ENSOARG00000009378	PDZRN3	5.36	12.29	2.29	0.0069	0.032366
ENSOARG00000011163	TIMM22	36.02	22.9	-1.57	0.006891	0.032366
ENSOARG00000019702	-	35.43	9.79	-3.62	0.007027	0.032521
ENSOARG00000013120	BRPF3	21.29	61.72	2.9	0.007035	0.032521
ENSOARG00000005146	COX20	56.2	24.95	-2.25	0.007037	0.032521
ENSOARG00000018770	CXorf21	10.63	5.59	-1.9	0.007013	0.032521
ENSOARG00000017154	ESS2	19.46	31.61	1.62	0.007007	0.032521
ENSOARG00000012121	FAM214B	27.09	52.66	1.94	0.006988	0.032521
ENSOARG00000014036	GUCD1	16.27	9.76	-1.67	0.007048	0.032521
ENSOARG00000004814	LPCAT3	32.65	18.66	-1.75	0.007019	0.032521
ENSOARG00000006411	MED27	54.8	181.43	3.31	0.007	0.032521
ENSOARG00000011961	NME4	62.77	30.19	-2.08	0.006964	0.032521
ENSOARG00000012749	PCGF1	9.76	30.09	3.08	0.00697	0.032521
ENSOARG00000016224	PPP1R3C	48.54	120.56	2.48	0.007014	0.032521
ENSOARG00000014875	SIGLEC5	20.54	11.02	-1.86	0.007007	0.032521
ENSOARG00000005763	SLC25A23	8.73	3.37	-2.59	0.00703	0.032521
ENSOARG00000013238	SLC39A8	19.25	10.47	-1.84	0.006994	0.032521
ENSOARG00000018560	USP46	21.4	71.01	3.32	0.007046	0.032521
ENSOARG00000020553	BCL9	15.99	34.55	2.16	0.007088	0.032542
ENSOARG00000001461	DELE1	38.68	59.68	1.54	0.007096	0.032542

ENSOARG00000017085	MED15	9.48	15.32	1.62	0.007078	0.032542
ENSOARG00000015059	METTL6	14.93	22.52	1.51	0.007069	0.032542
ENSOARG00000011809	PRADC1	16.73	10.12	-1.65	0.007078	0.032542
ENSOARG00000010507	RABGEF1	17.35	32.19	1.86	0.00707	0.032542
ENSOARG00000012308	TBC1D25	18.58	33.78	1.82	0.007096	0.032542
ENSOARG00000006639	CRIP3	9.71	1.03	-9.43	0.007116	0.032593
ENSOARG00000012494	LNx2	19.64	40.83	2.08	0.007151	0.032638
ENSOARG00000017397	RHOBTB3	23.37	15.03	-1.55	0.007132	0.032638
ENSOARG00000020994	SLC27A2	16.59	36.07	2.17	0.007151	0.032638
ENSOARG00000012368	STEAP3	84.62	41.17	-2.06	0.007152	0.032638
ENSOARG00000009504	PFDN2	149.21	234.44	1.57	0.007164	0.032656
ENSOARG00000013732	ARHGAP18	57.6	161.01	2.8	0.007178	0.032679
ENSOARG00000018928	NAPEPLD	10.1	4.12	-2.45	0.007183	0.032679
ENSOARG00000005150	ONECUT2	27.49	17.5	-1.57	0.007204	0.032726
ENSOARG00000013480	JAK2	24.34	59.08	2.43	0.007263	0.032875
ENSOARG00000004654	PICALM	144.22	223.53	1.55	0.00727	0.032882
ENSOARG00000010013	EMC1	61.72	39.36	-1.57	0.007287	0.03291
ENSOARG00000005553	-	111.94	47.49	-2.36	0.007342	0.032989
ENSOARG00000016436	FAM83H	32.19	17.98	-1.79	0.00735	0.032989
ENSOARG00000008216	PDP1	19.25	42.34	2.2	0.007341	0.032989
ENSOARG00000010395	TGIF1	36.55	98.86	2.7	0.007338	0.032989
ENSOARG00000016428	COX10	15.54	27.72	1.78	0.007376	0.033024
ENSOARG00000004506	OTUD1	25.61	138.01	5.39	0.007372	0.033024
ENSOARG00000002241	CSRNP1	40.9	140.44	3.43	0.007407	0.033093
ENSOARG00000001561	TOE1	29.47	51.98	1.76	0.007406	0.033093
ENSOARG00000017492	METTL7A	57.92	18.46	-3.14	0.007421	0.033094
ENSOARG00000001611	SLC25A12	16.61	7.98	-2.08	0.007424	0.033094
ENSOARG00000005519	PIPOX	23.91	6.67	-3.58	0.007432	0.033106
ENSOARG00000014137	MAT2B	48.47	73.76	1.52	0.007447	0.03313
ENSOARG00000004952	NUDT9	70.2	195.6	2.79	0.007448	0.03313
ENSOARG00000003356	RFC5	27.77	18.41	-1.51	0.007456	0.033141
ENSOARG00000006304	DCTN2	75.32	113.06	1.5	0.007474	0.033152
ENSOARG00000011198	FAM234A	67.06	39.64	-1.69	0.007474	0.033152
ENSOARG00000020570	ATOH8	10.85	2.03	-5.34	0.007554	0.033201
ENSOARG00000006900	C1orf116	9.39	18.08	1.93	0.00756	0.033201
ENSOARG00000005689	CCDC125	21.15	12.83	-1.65	0.007545	0.033201
ENSOARG00000006435	CLIC4	329.18	769.6	2.34	0.007528	0.033201
ENSOARG00000007070	GCLC	56.15	119.13	2.12	0.007527	0.033201
ENSOARG00000007931	GTPBP2	85.76	307.65	3.59	0.007551	0.033201
ENSOARG00000005421	NDRG1	185.25	592.84	3.2	0.007521	0.033201
ENSOARG00000017288	PLEKHA3	27.56	60.56	2.2	0.007559	0.033201
ENSOARG00000012738	RRAGD	7.55	18.89	2.5	0.007557	0.033201
ENSOARG00000001191	TMEM140	28.51	13.9	-2.05	0.007519	0.033201

ENSOARG00000010179	TRIM24	18.05	33.8	1.87	0.007558	0.033201
ENSOARG00000001259	UBE2Q2	40.25	88.01	2.19	0.007568	0.033209
ENSOARG00000002179	GLT8D1	42.32	24.29	-1.74	0.007574	0.033213
ENSOARG00000017149	UBFD1	52.09	34.25	-1.52	0.007598	0.033246
ENSOARG00000020645	YEATS2	10.36	18.43	1.78	0.007592	0.033246
ENSOARG00000000882	-	10.66	21.85	2.05	0.007693	0.033268
ENSOARG00000006265	AGPAT5	11.74	20.11	1.71	0.007742	0.033268
ENSOARG00000014351	ATP9A	28.5	14.73	-1.93	0.007684	0.033268
ENSOARG00000004379	C1RL	37.24	14.77	-2.52	0.007668	0.033268
ENSOARG00000012943	CRTC3	15.32	45.11	2.94	0.007691	0.033268
ENSOARG00000011088	FAM136A	43.74	21.6	-2.03	0.007731	0.033268
ENSOARG00000010969	GPAM	12.49	3.58	-3.49	0.007654	0.033268
ENSOARG00000000392	GPRIN3	4.62	12.3	2.66	0.007638	0.033268
ENSOARG00000014161	HIGD1A	16.55	101.93	6.16	0.007727	0.033268
ENSOARG00000011840	ISYNA1	67.52	30.29	-2.23	0.007748	0.033268
ENSOARG00000006067	MACO1	44.65	74.58	1.67	0.007655	0.033268
ENSOARG00000020358	PAK2	106.42	320.1	3.01	0.007712	0.033268
ENSOARG00000003501	PDK4	28.88	9.35	-3.09	0.007717	0.033268
ENSOARG00000015882	PPFIBP2	14.86	6.16	-2.41	0.007731	0.033268
ENSOARG00000007740	PPP3CB	11.67	19.08	1.63	0.007739	0.033268
ENSOARG00000016748	SECTM1	48.31	15.52	-3.11	0.007714	0.033268
ENSOARG00000010679	SLC25A19	15.58	8.79	-1.77	0.007733	0.033268
ENSOARG00000020797	TPM1	318.37	198.57	-1.6	0.007747	0.033268
ENSOARG00000010765	UAP1	96.56	156.21	1.62	0.007731	0.033268
ENSOARG00000002503	ATXN2L	96.08	161.09	1.68	0.00776	0.033274
ENSOARG00000013666	SCYL2	28.42	55.44	1.95	0.007756	0.033274
ENSOARG00000000445	TCEAL2	27.17	15.85	-1.71	0.007771	0.033274
ENSOARG00000019145	TST	68.03	27.05	-2.51	0.007768	0.033274
ENSOARG00000006200	NES	151.44	360.27	2.38	0.007787	0.033321
ENSOARG00000011941	TJP3	8.87	2.85	-3.11	0.007832	0.033487
ENSOARG00000008626	PRRG3	32.39	8.8	-3.68	0.007864	0.033604
ENSOARG00000003193	C1QTNF1	80.17	43.68	-1.84	0.007875	0.033605
ENSOARG00000001274	CDC25B	31.3	64.07	2.05	0.007911	0.033637
ENSOARG00000019710	GPR39	13.13	5.29	-2.48	0.007913	0.033637
ENSOARG00000004224	LAPTM4B	116.99	71.65	-1.63	0.007937	0.033637
ENSOARG00000001468	MAPK8	16.93	31.3	1.85	0.007936	0.033637
ENSOARG00000009845	OSMR	66.4	24.22	-2.74	0.007916	0.033637
ENSOARG00000010334	TMPRSS2	5.06	13.83	2.73	0.007921	0.033637
ENSOARG00000001460	DENND10	28.82	17.54	-1.64	0.008014	0.033825
ENSOARG00000006922	FBRS	26.89	40.58	1.51	0.007995	0.033825
ENSOARG00000005821	PMAIP1	183.35	326.07	1.78	0.008005	0.033825
ENSOARG00000000411	TIGD2	15.21	7.79	-1.95	0.008051	0.033908
ENSOARG00000012361	BACH2	3.27	11.81	3.61	0.008098	0.033979

ENSOARG00000019900	FSTL1	407.8	213.61	-1.91	0.0081	0.033979
ENSOARG00000015727	LUM	31.53	20.02	-1.57	0.008097	0.033979
ENSOARG00000001638	RPL36A	501.87	772.25	1.54	0.008098	0.033979
ENSOARG000000019278	THTPA	23.95	14.57	-1.64	0.008094	0.033979
ENSOARG00000005419	TTC7A	19.77	9.36	-2.11	0.008081	0.033979
ENSOARG00000007726	CFAP97	35.48	62.02	1.75	0.008115	0.034017
ENSOARG000000018773	BMP2K	20.81	47.75	2.29	0.008122	0.034025
ENSOARG000000018901	PPIC	118.79	74.71	-1.59	0.008139	0.034047
ENSOARG00000007169	KLF4	19.38	56.66	2.92	0.008167	0.034103
ENSOARG00000000884	SAAL1	15.69	6.72	-2.33	0.008168	0.034103
ENSOARG00000007752	SP2	11.75	21.5	1.83	0.008178	0.03412
ENSOARG000000008550	-	82.23	33.14	-2.48	0.008193	0.034158
ENSOARG00000007929	GPX3	1598.2	935.6	-1.71	0.008209	0.034179
ENSOARG00000007289	STK35	12.61	21.98	1.74	0.008209	0.034179
ENSOARG000000018242	VCAM1	7.79	1.85	-4.21	0.008214	0.034179
ENSOARG000000017402	APOB	195.94	473.36	2.42	0.008226	0.034182
ENSOARG00000005518	GPX7	196.54	125.36	-1.57	0.00825	0.034257
ENSOARG000000019605	BRD1	17.82	32.88	1.85	0.008273	0.034263
ENSOARG000000017620	DTYMK	27.09	14.84	-1.83	0.008271	0.034263
ENSOARG000000017125	TMEM223	110.01	57.94	-1.9	0.008269	0.034263
ENSOARG000000013406	AFF4	29.26	58.14	1.99	0.008419	0.034278
ENSOARG000000019568	AGO4	15.11	27.87	1.84	0.008431	0.034278
ENSOARG000000006030	AKNA	8.49	14.39	1.69	0.008349	0.034278
ENSOARG000000009005	C2CD3	8.13	13.31	1.64	0.008471	0.034278
ENSOARG000000013509	CD274	3.19	11.45	3.59	0.008369	0.034278
ENSOARG000000005825	ECHDC2	26.57	8.17	-3.25	0.008296	0.034278
ENSOARG000000013202	FCGRT	270.64	161.27	-1.68	0.008448	0.034278
ENSOARG000000017062	IL17D	7.04	1.86	-3.78	0.008497	0.034278
ENSOARG000000020519	KNG1	489.62	167	-2.93	0.008402	0.034278
ENSOARG000000002607	LENG8	63.67	32.77	-1.94	0.008467	0.034278
ENSOARG000000017150	LHFPL2	31.01	47.48	1.53	0.008482	0.034278
ENSOARG000000019872	LPCAT4	13.66	6.56	-2.08	0.008501	0.034278
ENSOARG000000017861	MBLAC1	18.92	12.57	-1.51	0.008421	0.034278
ENSOARG000000016152	MTMR10	16.12	34.01	2.11	0.008411	0.034278
ENSOARG000000014849	NEDD9	14.13	23.97	1.7	0.008471	0.034278
ENSOARG000000004075	NISCH	21.52	13.97	-1.54	0.008404	0.034278
ENSOARG000000009521	NIT1	18.98	9.83	-1.93	0.008428	0.034278
ENSOARG000000001166	NRIP1	28.76	96.3	3.35	0.008356	0.034278
ENSOARG000000006047	PLS1	12.86	5.82	-2.21	0.008338	0.034278
ENSOARG000000013260	PRR12	9.87	4.67	-2.11	0.008495	0.034278
ENSOARG000000000539	RIOX1	15.33	9.17	-1.67	0.008427	0.034278
ENSOARG000000015547	SEC16B	9.04	3.55	-2.55	0.008303	0.034278
ENSOARG000000015749	SLC12A9	13.14	6.62	-1.98	0.008491	0.034278

ENSOARG00000013255	SMARCB1	71.89	113.87	1.58	0.008455	0.034278
ENSOARG00000004583	SNRNP35	19.63	12.72	-1.54	0.008467	0.034278
ENSOARG00000018336	TMBIM6	401.44	241.11	-1.66	0.008448	0.034278
ENSOARG00000020813	VPS13C	13.98	22.84	1.63	0.008438	0.034278
ENSOARG00000001300	XYLB	23.29	7.49	-3.11	0.008462	0.034278
ENSOARG00000005359	CARHSP1	358.75	222.79	-1.61	0.008518	0.03429
ENSOARG00000011462	AGXT2	16.94	7.57	-2.24	0.00857	0.034353
ENSOARG00000018182	EFR3B	7.95	19.89	2.5	0.008572	0.034353
ENSOARG00000018146	FICD	12.66	24.14	1.91	0.008561	0.034353
ENSOARG00000014418	GRK4	18.69	10.88	-1.72	0.008576	0.034353
ENSOARG00000008915	HNRNPLL	12.45	18.63	1.5	0.008584	0.034353
ENSOARG00000013265	SMARCA2	16.53	4.84	-3.42	0.008565	0.034353
ENSOARG00000018927	XK	17.41	10.1	-1.72	0.008554	0.034353
ENSOARG00000017810	SEPTIN2	158.06	100.57	-1.57	0.008591	0.034357
ENSOARG00000012053	ACOX2	55.7	9.6	-5.8	0.0086	0.034372
ENSOARG00000017133	PCNA	77.79	47.77	-1.63	0.008608	0.034382
ENSOARG00000010100	YPEL4	1.55	13.33	8.6	0.00862	0.034409
ENSOARG00000004136	ZFP42	17.51	5.95	-2.94	0.008631	0.034431
ENSOARG00000008103	ZSWIM4	9.06	20.33	2.24	0.008639	0.034441
ENSOARG00000007504	GSTO1	101.54	45.32	-2.24	0.008679	0.034508
ENSOARG00000009781	SMCHD1	7.63	14.09	1.85	0.008674	0.034508
ENSOARG00000013551	ARHGAP20	1.47	8.62	5.86	0.008714	0.034517
ENSOARG00000010764	HCCS	23.01	35.46	1.54	0.008713	0.034517
ENSOARG00000005206	OPTN	94.5	163.75	1.73	0.008689	0.034517
ENSOARG00000004328	ELOVL6	35.87	21.74	-1.65	0.008744	0.034564
ENSOARG00000008274	HSF2	10.98	24.3	2.21	0.008745	0.034564
ENSOARG00000008186	SH3BP5L	26	14.85	-1.75	0.008754	0.034564
ENSOARG00000013971	ZEB1	17.74	59.43	3.35	0.008753	0.034564
ENSOARG00000007947	TMEM178A	6.31	12.34	1.96	0.00876	0.034566
ENSOARG00000013387	APEH	47.96	25.02	-1.92	0.008779	0.034594
ENSOARG00000004310	CXXC1	24.26	15.69	-1.55	0.008788	0.034594
ENSOARG00000017039	H2AX	78.44	38.04	-2.06	0.008789	0.034594
ENSOARG00000010589	SMARCA5	95.03	154.93	1.63	0.008795	0.034594
ENSOARG00000017236	PUM2	34.04	59.27	1.74	0.008809	0.034624
ENSOARG00000013975	CIAO1	20.57	10.92	-1.88	0.008836	0.034662
ENSOARG00000018417	CLN6	23.77	14.87	-1.6	0.008841	0.034662
ENSOARG00000003423	CYP1A1	20.54	3.65	-5.63	0.008891	0.034662
ENSOARG00000009872	LONRF1	18.54	45.41	2.45	0.008891	0.034662
ENSOARG00000003352	NFIL3	55.57	167.73	3.02	0.008883	0.034662
ENSOARG00000017000	TEC	8.48	22.46	2.65	0.008851	0.034662
ENSOARG00000019527	TMBIM1	320.75	610.03	1.9	0.008824	0.034662
ENSOARG00000005219	TMEM18	19.48	34.99	1.8	0.008872	0.034662
ENSOARG00000009741	WDR34	12.01	6.51	-1.84	0.008872	0.034662

ENSOARG00000014088	C6orf89	63.7	121.29	1.9	0.008936	0.034774
ENSOARG00000005679	PAFAH2	20.64	12.88	-1.6	0.008943	0.034774
ENSOARG00000016055	PRELID3B	41.22	76.4	1.85	0.008938	0.034774
ENSOARG00000010842	ZC3HAV1L	13.18	7.11	-1.85	0.008954	0.034774
ENSOARG00000018681	CAVIN3	34.43	10.69	-3.22	0.008987	0.034836
ENSOARG00000005855	LOC101114987	30.65	46.05	1.5	0.008983	0.034836
ENSOARG00000016864	LONP2	112.11	70.54	-1.59	0.008976	0.034836
ENSOARG00000015734	CBY1	26.93	17.83	-1.51	0.009005	0.034887
ENSOARG00000009598	APTX	15.6	8.89	-1.75	0.009017	0.034911
ENSOARG00000005177	SLK	22.96	64.84	2.82	0.009048	0.035002
ENSOARG00000007142	SSBP3	45.88	18.65	-2.46	0.009052	0.035002
ENSOARG000000021096	KTN1	48.56	78.05	1.61	0.009133	0.035187
ENSOARG000000021150	MTHFD1	38.98	25.62	-1.52	0.009123	0.035187
ENSOARG00000007224	SSBP3	46.74	14.43	-3.24	0.009109	0.035187
ENSOARG00000017950	TNRC6A	15.1	7.58	-1.99	0.009132	0.035187
ENSOARG00000018036	ECI1	12.33	6.72	-1.83	0.009143	0.035201
ENSOARG00000020076	H2BC8	46.2	87.47	1.89	0.009179	0.035226
ENSOARG00000004641	PFN2	15.57	7.51	-2.07	0.009183	0.035226
ENSOARG00000009771	RNF113B	21.16	9.48	-2.23	0.009164	0.035226
ENSOARG00000015964	TACC3	18.05	10.53	-1.71	0.009168	0.035226
ENSOARG00000013437	CDC37L1	17.61	45.54	2.59	0.009206	0.035266
ENSOARG00000008042	RIOK3	37.23	90.49	2.43	0.009202	0.035266
ENSOARG00000013764	HNF1A	26.9	11.1	-2.42	0.009243	0.035347
ENSOARG00000014671	NF1	14.56	23.33	1.6	0.009244	0.035347
ENSOARG00000018645	ELF5	11.66	5.51	-2.12	0.009276	0.035374
ENSOARG00000014604	IGFBP4	675.16	198.64	-3.4	0.009267	0.035374
ENSOARG00000007986	MBIP	33.62	13.75	-2.45	0.009257	0.035374
ENSOARG00000007710	RNF157	6.92	13.71	1.98	0.009285	0.035374
ENSOARG00000008200	ZNF574	17.46	35.47	2.03	0.009312	0.035432
ENSOARG00000005384	-	254.52	92.39	-2.75	0.009603	0.035435
ENSOARG00000003411	AKAP8L	43.51	22.65	-1.92	0.009323	0.035435
ENSOARG00000015661	APOH	515.42	236.23	-2.18	0.009585	0.035435
ENSOARG00000006757	CHCHD3	46.55	72.24	1.55	0.009601	0.035435
ENSOARG00000016037	CRAMP1	8.58	15.1	1.76	0.009403	0.035435
ENSOARG00000006284	DCTPP1	54.3	27.45	-1.98	0.009541	0.035435
ENSOARG00000011506	DNAJC21	32.7	73.82	2.26	0.009358	0.035435
ENSOARG00000013715	E2F5	14.88	29.05	1.95	0.009603	0.035435
ENSOARG00000003767	EPHX3	7.39	12.47	1.69	0.009424	0.035435
ENSOARG00000005637	ETV4	41.84	25.48	-1.64	0.009349	0.035435
ENSOARG00000006178	FAM20C	110.52	57.45	-1.92	0.009566	0.035435
ENSOARG00000007271	HAAO	139.98	70.62	-1.98	0.009482	0.035435
ENSOARG00000015310	HPGD	23.22	11.37	-2.04	0.009579	0.035435
ENSOARG00000017302	HS1BP3	19.04	34.02	1.79	0.009421	0.035435

ENSOARG00000004779	HSD17B11	369.33	729.68	1.98	0.009461	0.035435
ENSOARG000000017655	KAT5	22.43	48.02	2.14	0.009581	0.035435
ENSOARG000000020961	MARCKSL1	246.06	135.45	-1.82	0.009543	0.035435
ENSOARG000000011978	MIEN1	34.67	61.7	1.78	0.009538	0.035435
ENSOARG00000001685	MMACHC	16.35	9.15	-1.79	0.009489	0.035435
ENSOARG000000014738	MTTP	65.14	25.92	-2.51	0.00936	0.035435
ENSOARG000000010167	NR2F2	29.97	12.16	-2.46	0.009521	0.035435
ENSOARG000000017630	NR2F6	29.13	11.72	-2.49	0.00939	0.035435
ENSOARG000000016112	NRBP2	29.74	15.33	-1.94	0.009616	0.035435
ENSOARG000000019516	PCBP1	629.36	1079.01	1.71	0.009451	0.035435
ENSOARG000000005078	PHF10	20.02	11.06	-1.81	0.009573	0.035435
ENSOARG000000011874	PNISR	19.05	12.13	-1.57	0.009394	0.035435
ENSOARG000000006389	PPM1B	81.48	121.88	1.5	0.009434	0.035435
ENSOARG000000009903	PRAG1	16.68	56.67	3.4	0.009368	0.035435
ENSOARG000000004288	RBP5	39.1	6.58	-5.94	0.009436	0.035435
ENSOARG000000000450	S100A8	33.36	18.46	-1.81	0.009574	0.035435
ENSOARG000000018193	SLC25A10	21.37	5.48	-3.9	0.009349	0.035435
ENSOARG000000020471	SLC2A1	54.92	204.65	3.73	0.009397	0.035435
ENSOARG000000010066	STRN	16.15	27.13	1.68	0.009327	0.035435
ENSOARG000000008349	TACSTD2	12.07	33.61	2.78	0.00945	0.035435
ENSOARG000000012535	TNS3	28.33	14.42	-1.96	0.009568	0.035435
ENSOARG000000015151	ZFAND3	84.37	147.19	1.74	0.009628	0.035435
ENSOARG000000016794	ZMYM3	18.7	9.92	-1.89	0.009621	0.035435
ENSOARG000000006773	ZNF689	17.67	29.79	1.69	0.009453	0.035435
ENSOARG000000003242	ZNF787	13.36	26.19	1.96	0.009527	0.035435
ENSOARG000000003075	-	87.9	58.22	-1.51	0.009644	0.035473
ENSOARG000000000620	CCDC85C	9.38	3.39	-2.77	0.009683	0.035485
ENSOARG000000008672	CDC34	81.65	125.58	1.54	0.009667	0.035485
ENSOARG000000015873	KIF20A	9.35	3.91	-2.39	0.009693	0.035485
ENSOARG000000014227	SUCO	16.66	56.73	3.41	0.009674	0.035485
ENSOARG000000000909	THOC6	20.18	32.83	1.63	0.009699	0.035485
ENSOARG000000011650	TMC7	2.6	8.39	3.23	0.009688	0.035485
ENSOARG000000020374	ACSL3	40.14	77.98	1.94	0.00973	0.035519
ENSOARG000000011728	BCL9L	47.1	21.08	-2.23	0.009737	0.035519
ENSOARG000000001051	REPS1	23.75	48.33	2.03	0.009738	0.035519
ENSOARG000000000191	SULT1C4	44.59	8.6	-5.18	0.009744	0.035519
ENSOARG000000015354	LRP5	115.49	61.57	-1.88	0.009773	0.035525
ENSOARG000000001311	NDEL1	39.79	74.32	1.87	0.009763	0.035525
ENSOARG000000008417	PLEKHA8	12.26	20.33	1.66	0.009789	0.035539
ENSOARG000000016927	SIAH1	24.15	38.16	1.58	0.0098	0.035539
ENSOARG000000005512	TAF15	43.34	24.77	-1.75	0.009799	0.035539
ENSOARG000000025194	ARL4C	53.66	161.21	3	0.009839	0.035647
ENSOARG000000017264	BMP6	26.3	69.5	2.64	0.009842	0.035647

ENSOARG00000014363	RASSF6	15.36	49.26	3.21	0.00986	0.035679
ENSOARG00000010412	RIPK4	5.96	29.79	5	0.009873	0.035679
ENSOARG00000017748	SLC3A2	134.93	252.23	1.87	0.009869	0.035679
ENSOARG00000007977	C1QB	537.75	354.93	-1.52	0.009889	0.035714
ENSOARG00000013581	BRAF	7.13	15.16	2.13	0.009901	0.035737
ENSOARG00000001510	KIAA0753	21.67	7.67	-2.83	0.009925	0.035739
ENSOARG00000007520	PKIA	17.46	6.28	-2.78	0.009925	0.035739
ENSOARG00000010493	ATF3	72.98	189.65	2.6	0.009945	0.035767
ENSOARG00000015236	MAFF	34.46	140.8	4.09	0.009953	0.035767
ENSOARG00000018747	RAD21L1	8.75	1.01	-8.66	0.009965	0.03577
ENSOARG00000016885	UBE2E3	22.57	14.68	-1.54	0.009983	0.035803
ENSOARG00000000588	ACOT4	19.62	8.93	-2.2	0.009991	0.035812
ENSOARG00000009473	APOC2	216.87	107.58	-2.02	0.010046	0.035857
ENSOARG00000017519	ATF1	18.62	29.3	1.57	0.010035	0.035857
ENSOARG00000018297	CLCN6	8.29	15.94	1.92	0.01006	0.035857
ENSOARG00000011855	ITGB3	10.71	20.06	1.87	0.010068	0.035857
ENSOARG00000019040	MAPRE3	15.04	32.92	2.19	0.010076	0.035857
ENSOARG00000005779	PAQR7	77.87	16.33	-4.77	0.010045	0.035857
ENSOARG00000007565	RBM14	53.19	30.03	-1.77	0.010096	0.035857
ENSOARG00000014861	SH3GLB1	93.67	162.34	1.73	0.010093	0.035857
ENSOARG00000000916	TNFAIP8L3	26.71	56.43	2.11	0.010063	0.035857
ENSOARG00000013849	GGT1	28.03	18.23	-1.54	0.010111	0.035875
ENSOARG00000001299	PDCD10	43.9	68.87	1.57	0.010121	0.035875
ENSOARG00000011058	PPP2R5B	15.24	9.56	-1.59	0.010125	0.035875
ENSOARG00000013556	APRT	82.97	39.1	-2.12	0.010152	0.035888
ENSOARG00000019299	DUT	59.36	32.38	-1.83	0.01015	0.035888
ENSOARG00000010478	IGFL1	11.2	4.69	-2.39	0.010151	0.035888
ENSOARG00000003850	FITM2	16.17	10.79	-1.5	0.010173	0.035893
ENSOARG00000001043	GSTO1	20.93	8.68	-2.41	0.010165	0.035893
ENSOARG00000003233	WSB2	206.45	362.77	1.76	0.010176	0.035893
ENSOARG00000011504	ZCCHC7	9.02	17.29	1.92	0.010173	0.035893
ENSOARG00000012479	BCL7B	43.29	81.68	1.89	0.010203	0.035956
ENSOARG00000001837	SPIRE1	8.56	30.39	3.55	0.010218	0.035956
ENSOARG00000010930	CDCP1	20.41	49.62	2.43	0.010254	0.035979
ENSOARG00000014317	DENND2B	69.98	123.23	1.76	0.010242	0.035979
ENSOARG00000010523	JAG1	28.08	59.15	2.11	0.010271	0.035979
ENSOARG00000006792	MLIP	7.73	15.96	2.06	0.010244	0.035979
ENSOARG00000001039	RAP1B	136.21	291.52	2.14	0.010258	0.035979
ENSOARG00000011639	YTHDF1	34.67	66.8	1.93	0.010285	0.03599
ENSOARG00000000072	FOSL1	49.52	95.05	1.92	0.010298	0.035993
ENSOARG00000003786	TRMT1L	25.09	14.79	-1.7	0.010305	0.035999
ENSOARG00000011554	SLC30A1	29.18	46.86	1.61	0.010318	0.036009
ENSOARG00000010926	WDR4	11.47	6.27	-1.83	0.010362	0.036115

ENSOARG00000012383	POGLUT3	14.07	8.65	-1.63	0.010377	0.03613
ENSOARG00000010928	SMG1	9.3	14.57	1.57	0.010378	0.03613
ENSOARG00000007182	C4BPB	23.71	5.17	-4.59	0.01041	0.036163
ENSOARG00000020648	KLHL24	10.57	24.8	2.35	0.010417	0.036163
ENSOARG00000019706	NDRG2	136.3	54.65	-2.49	0.010409	0.036163
ENSOARG00000013920	WDR81	21.18	13.8	-1.53	0.010416	0.036163
ENSOARG00000003259	PON2	103.64	63.77	-1.63	0.01045	0.036239
ENSOARG00000000004	-	4.52	10.79	2.39	0.010502	0.036339
ENSOARG00000020567	AGFG1	31.07	64.82	2.09	0.010516	0.036339
ENSOARG00000016199	UBE2A	32.4	49.97	1.54	0.010518	0.036339
ENSOARG00000006042	SAMD4B	51.96	125.27	2.41	0.010543	0.036375
ENSOARG00000011135	ATXN1L	28.79	43.91	1.53	0.010555	0.036399
ENSOARG00000011707	NOL9	13.06	8.06	-1.62	0.01057	0.036428
ENSOARG00000018750	LARP6	13.76	23.27	1.69	0.010586	0.036461
ENSOARG00000016418	RAPGEF6	4.22	11.96	2.83	0.010591	0.036461
ENSOARG00000002352	SUDS3	34.93	56.08	1.61	0.010608	0.036499
ENSOARG00000008713	FBF1	10.77	5.53	-1.95	0.010616	0.036507
ENSOARG00000009058	CREB5	20.9	122.98	5.88	0.01064	0.036568
ENSOARG00000003792	ANGPTL4	136.09	58.37	-2.33	0.01066	0.036571
ENSOARG00000014982	ARL14	7.75	0.89	-8.71	0.010668	0.036571
ENSOARG00000015855	DEGS1	110.05	270.37	2.46	0.010651	0.036571
ENSOARG00000003145	RANBP10	18.88	40.22	2.13	0.010664	0.036571
ENSOARG00000020277	C15orf62	7.3	1.94	-3.76	0.010693	0.036599
ENSOARG00000000420	NDFIP2	144.09	558.01	3.87	0.010698	0.036599
ENSOARG00000018854	NDUFA6	121.99	67.55	-1.81	0.010702	0.036599
ENSOARG00000009519	DAXX	92.74	49.91	-1.86	0.010715	0.036622
ENSOARG00000021125	DHRS7	64.55	33.54	-1.92	0.010727	0.036642
ENSOARG00000005261	GBGT1	48.97	23.75	-2.06	0.010767	0.036679
ENSOARG00000008162	MAP4K3	47.04	83.62	1.78	0.010766	0.036679
ENSOARG00000016814	TXNRD1	123.06	220.76	1.79	0.010766	0.036679
ENSOARG00000013777	CBR1	10.26	3.88	-2.64	0.010796	0.036686
ENSOARG00000008677	KAT6B	7.18	13.88	1.93	0.01082	0.036686
ENSOARG00000014989	TUBB3	28.15	12.86	-2.19	0.010816	0.036686
ENSOARG00000017689	UBXN2A	26.87	47.24	1.76	0.010806	0.036686
ENSOARG00000010650	ALDH2	124.84	56.01	-2.23	0.010887	0.036823
ENSOARG00000003361	LOC101114075	781.58	427.04	-1.83	0.010885	0.036823
ENSOARG00000007757	RBM15B	48.18	74.28	1.54	0.010898	0.036842
ENSOARG00000004660	GRAMD1A	46.79	76.35	1.63	0.010927	0.036918
ENSOARG00000005406	HKDC1	33.98	9.08	-3.74	0.010938	0.036935
ENSOARG00000015536	CEMIP	6.53	13.35	2.04	0.010974	0.036953
ENSOARG00000000123	CX3CL1	38.86	16.32	-2.38	0.010979	0.036953
ENSOARG00000010984	PDE9A	5.46	15.39	2.82	0.010955	0.036953
ENSOARG00000017682	RTL5	127.45	19.67	-6.48	0.010962	0.036953

ENSOARG00000004208	TCIM	59.91	216.38	3.61	0.010967	0.036953
ENSOARG000000012886	THRA	24.07	13.54	-1.78	0.011005	0.037019
ENSOARG000000018360	CCDC174	16.57	41.09	2.48	0.011109	0.03721
ENSOARG000000005780	EMP2	50.39	31.96	-1.58	0.011109	0.03721
ENSOARG000000005122	FAM120B	10.75	5.61	-1.92	0.011093	0.03721
ENSOARG000000002007	SIGLEC1	32.11	11.83	-2.71	0.011109	0.03721
ENSOARG000000001836	CAVIN1	237.03	134.82	-1.76	0.011125	0.037214
ENSOARG000000019198	CCNT1	10.38	20.89	2.01	0.011135	0.037214
ENSOARG000000013714	CD34	17.34	9.68	-1.79	0.011134	0.037214
ENSOARG000000005264	DDX50	15.62	23.81	1.52	0.011128	0.037214
ENSOARG000000008950	C9orf64	20.22	8.95	-2.26	0.011165	0.037216
ENSOARG000000006711	DIO1	14.78	6.96	-2.12	0.011166	0.037216
ENSOARG000000017473	HIGD1A	3.19	24.97	7.83	0.011162	0.037216
ENSOARG000000011354	KLHL21	25.74	61.04	2.37	0.011183	0.037216
ENSOARG000000008213	VEZF1	56.21	89.84	1.6	0.011166	0.037216
ENSOARG000000019683	WNT2B	25.84	56.45	2.18	0.011145	0.037216
ENSOARG000000007905	NPC1	27.56	53.56	1.94	0.011201	0.037254
ENSOARG000000020416	ATP13A3	46.7	88.18	1.89	0.011243	0.037345
ENSOARG000000006376	LY96	83.97	128.73	1.53	0.011242	0.037345
ENSOARG000000016995	CHMP2B	27.94	50.24	1.8	0.011259	0.037346
ENSOARG000000011263	DAPK3	165.26	329.22	1.99	0.011277	0.037346
ENSOARG000000000117	HERC3	23.66	36.45	1.54	0.011257	0.037346
ENSOARG000000008757	ISCA1	39.18	80.58	2.06	0.011274	0.037346
ENSOARG000000015078	IRF1	49.52	29.19	-1.7	0.011291	0.037372
ENSOARG000000016961	ANKRD50	11.58	21.74	1.88	0.011332	0.037428
ENSOARG000000013884	DAP	692.36	414.12	-1.67	0.011328	0.037428
ENSOARG000000000470	DCAF16	13.64	4.13	-3.3	0.011318	0.037428
ENSOARG000000020403	LSG1	22.36	36.51	1.63	0.011324	0.037428
ENSOARG000000006924	CELF1	49.14	79.55	1.62	0.011361	0.037484
ENSOARG000000006289	PPWD1	16.65	8.86	-1.88	0.011361	0.037484
ENSOARG000000007614	ACSL1	51.32	87.29	1.7	0.011379	0.037523
ENSOARG000000008192	FOXA1	34.81	14.51	-2.4	0.011394	0.037528
ENSOARG000000015896	ISCA1	82.48	170.35	2.07	0.011405	0.037528
ENSOARG000000021199	SIPA1L1	17.54	9.25	-1.9	0.011402	0.037528
ENSOARG000000016550	MLH1	12.36	6.03	-2.05	0.01142	0.037556
ENSOARG000000008099	SAMD11	31.18	5.86	-5.32	0.011447	0.037587
ENSOARG000000001486	GATAD2B	23.58	41.58	1.76	0.011477	0.037667
ENSOARG000000006486	SREK1IP1	12.48	5.69	-2.19	0.011505	0.037737
ENSOARG000000014199	PLIN2	124.8	235.22	1.88	0.011515	0.037751
ENSOARG000000001956	SNX33	17.77	11.54	-1.54	0.011524	0.037761
ENSOARG000000012282	-	17.94	29.61	1.65	0.011658	0.037766
ENSOARG000000013560	-	102.45	65.03	-1.58	0.01163	0.037766
ENSOARG000000013620	ADGRL2	41.27	25.58	-1.61	0.01159	0.037766

ENSOARG00000011841	ANPEP	29.2	9.69	-3.01	0.011634	0.037766
ENSOARG00000016188	BIN1	30.06	51.75	1.72	0.011673	0.037766
ENSOARG00000018943	CYBB	41.65	26.41	-1.58	0.011613	0.037766
ENSOARG00000017785	FAM89A	49.19	10.15	-4.85	0.011577	0.037766
ENSOARG00000015192	HACL1	44.11	12.21	-3.61	0.011611	0.037766
ENSOARG00000013211	KANK1	47.55	27.02	-1.76	0.01163	0.037766
ENSOARG00000014296	KLHDC8B	8.44	2.14	-3.94	0.011582	0.037766
ENSOARG00000007234	PLK2	78.68	220.37	2.8	0.01167	0.037766
ENSOARG00000007884	PROZ	21.36	6.89	-3.1	0.011569	0.037766
ENSOARG00000014705	SEPTIN8	29.32	18.02	-1.63	0.011563	0.037766
ENSOARG00000010035	SERPING1	318.01	174.38	-1.82	0.011627	0.037766
ENSOARG00000016653	SFXN1	95.59	48.12	-1.99	0.011679	0.037766
ENSOARG00000019699	STK40	80.08	138.25	1.73	0.011641	0.037766
ENSOARG00000007484	WDSUB1	11.43	19.01	1.66	0.011582	0.037766
ENSOARG00000015283	WAC	89.72	135.18	1.51	0.011687	0.037774
ENSOARG00000000971	ANKRD12	18.43	34.99	1.9	0.01171	0.037814
ENSOARG00000000576	GSDMD	57.83	36.4	-1.59	0.011718	0.037814
ENSOARG00000011563	RNF38	22.07	34.07	1.54	0.011713	0.037814
ENSOARG00000009618	EPC2	15.71	28.69	1.83	0.011749	0.037855
ENSOARG00000018401	FMNL3	43.23	90.98	2.1	0.01174	0.037855
ENSOARG00000013108	CHCHD10	44.58	82.28	1.85	0.011771	0.037906
ENSOARG00000009901	PRAG1	13.22	42.98	3.25	0.011783	0.037925
ENSOARG00000016834	ITPRID2	27.16	69.66	2.56	0.011849	0.037999
ENSOARG00000009294	MAGED1	202.37	84.19	-2.4	0.01184	0.037999
ENSOARG00000012679	WBP1	29.57	13.84	-2.14	0.011846	0.037999
ENSOARG00000004070	CALHM2	44.84	23.03	-1.95	0.011884	0.038062
ENSOARG00000004404	SBNO1	13.45	21.52	1.6	0.011877	0.038062
ENSOARG00000018732	UACA	18.1	28.5	1.57	0.011962	0.038282
ENSOARG00000005093	ARHGEF2	59.27	120.79	2.04	0.011984	0.038307
ENSOARG00000014894	ASAP2	16.65	41.2	2.47	0.01199	0.038307
ENSOARG00000017589	DSTN	515.6	896.24	1.74	0.012007	0.038307
ENSOARG00000004895	RPS6KA2	9.92	17.52	1.77	0.012002	0.038307
ENSOARG00000021738	-	3126.41	869.49	-3.6	0.012056	0.038406
ENSOARG00000010442	ALDH4A1	57.86	28.63	-2.02	0.012103	0.038533
ENSOARG00000010868	TEX10	8.35	20.51	2.46	0.012116	0.038534
ENSOARG00000013292	GOLGA5	27.98	46.78	1.67	0.012129	0.038559
ENSOARG00000010657	LOC101120470	26.49	14.63	-1.81	0.012145	0.038584
ENSOARG00000010264	PDLIM2	82.55	25.21	-3.27	0.012155	0.038584
ENSOARG00000020282	RUBCN	7.77	13.84	1.78	0.012173	0.038617
ENSOARG00000026720	-	10.25	4.37	-2.35	0.012187	0.038643
ENSOARG00000004087	URI1	25.06	62.34	2.49	0.012196	0.038652
ENSOARG00000005170	FBXW8	43.26	27.05	-1.6	0.012208	0.038655
ENSOARG00000015642	CRTAP	53.98	29.13	-1.85	0.012267	0.038686

ENSOARG00000005915	ECHDC2	11.61	3.33	-3.49	0.012247	0.038686
ENSOARG00000002391	MSRB2	15.07	6.77	-2.23	0.012259	0.038686
ENSOARG00000017626	PITX3	1.42	8.91	6.27	0.012281	0.038686
ENSOARG00000019505	PNKD	50.31	16.61	-3.03	0.012228	0.038686
ENSOARG00000006883	VSIR	34.03	18.85	-1.81	0.012288	0.038686
ENSOARG00000005806	MECP2	29.85	56.02	1.88	0.012308	0.03872
ENSOARG00000008473	PLAU	25.13	48.69	1.94	0.012328	0.038751
ENSOARG00000014657	ANKRD22	26.75	63.99	2.39	0.012354	0.038793
ENSOARG00000012720	IRF6	52.56	114.43	2.18	0.01238	0.038836
ENSOARG00000002679	PPP1R9A	13.96	6.32	-2.21	0.012424	0.038954
ENSOARG00000013572	ERMP1	16.83	9.55	-1.76	0.012456	0.039035
ENSOARG00000005242	GRPEL2	15.94	32.39	2.03	0.012477	0.039081
ENSOARG00000010957	AEN	18.05	50.34	2.79	0.012505	0.03911
ENSOARG00000000340	ELOB	228.11	149.07	-1.53	0.012504	0.03911
ENSOARG00000005080	PRODH2	10.3	2.22	-4.64	0.012512	0.039111
ENSOARG00000016193	IL18	10.76	16.61	1.54	0.012546	0.039197
ENSOARG00000007048	ANKRD10	23.89	12.34	-1.94	0.012569	0.039227
ENSOARG00000007716	BPGM	43.36	176.78	4.08	0.012576	0.039227
ENSOARG00000007696	ECHDC1	30.76	20.08	-1.53	0.012562	0.039227
ENSOARG00000016751	NCKAP1	64.87	129.7	2	0.012581	0.039227
ENSOARG00000011509	-	12.3	19.4	1.58	0.012618	0.039285
ENSOARG00000007798	NCK1	29.69	48.57	1.64	0.012631	0.039285
ENSOARG00000018374	NDUFA2	246.04	157.87	-1.56	0.012607	0.039285
ENSOARG00000017097	PPTC7	11.6	22.48	1.94	0.012621	0.039285
ENSOARG00000006863	AGA	28.43	17.96	-1.58	0.012651	0.039288
ENSOARG00000020479	RETSAT	17.78	7.47	-2.38	0.01265	0.039288
ENSOARG00000005626	RHOQ	128.33	246.26	1.92	0.012639	0.039288
ENSOARG00000000940	ALDH6A1	62.81	18.46	-3.4	0.012668	0.039292
ENSOARG00000001326	ATP6AP2	35.54	78.34	2.2	0.012717	0.039292
ENSOARG00000012271	C6orf136	17.66	29.64	1.68	0.012704	0.039292
ENSOARG00000010640	CALM3	238.58	121.56	-1.96	0.01269	0.039292
ENSOARG00000006023	ERBIN	40.49	68.76	1.7	0.012743	0.039292
ENSOARG00000007605	FNBP4	34.8	52.09	1.5	0.012736	0.039292
ENSOARG00000008027	MYC	117.3	247.67	2.11	0.012718	0.039292
ENSOARG00000006978	RAB4B	12.59	22.03	1.75	0.012748	0.039292
ENSOARG00000003520	RNF170	45.57	26.36	-1.73	0.012735	0.039292
ENSOARG00000000569	TNFAIP3	8.7	27.31	3.14	0.012723	0.039292
ENSOARG00000002762	TUBG2	17.1	9.05	-1.89	0.012663	0.039292
ENSOARG00000005061	TXNL1	110.74	173.43	1.57	0.012725	0.039292
ENSOARG00000000732	XPC	47.43	20.49	-2.31	0.01268	0.039292
ENSOARG00000012169	HAL	46.43	15.11	-3.07	0.012755	0.039296
ENSOARG00000018763	UNC119	37.14	19.75	-1.88	0.012768	0.039303
ENSOARG00000011371	ATXN7	10.73	17.03	1.59	0.012792	0.039336

ENSOARG00000009677	CISD3	28.36	16.25	-1.75	0.01291	0.039547
ENSOARG00000006848	NAXD	35.2	19.26	-1.83	0.012908	0.039547
ENSOARG00000005291	CFI	287.88	130.71	-2.2	0.012939	0.039548
ENSOARG00000000729	ITIH4	641.06	419.89	-1.53	0.01294	0.039548
ENSOARG00000013995	EPM2AIP1	40.47	24.72	-1.64	0.013001	0.039643
ENSOARG00000000092	SHISA5	53.21	29.67	-1.79	0.012989	0.039643
ENSOARG00000012574	NMRK1	36.62	18.1	-2.02	0.013028	0.039681
ENSOARG00000006546	ALDH5A1	38.11	18.76	-2.03	0.013078	0.039754
ENSOARG00000013390	GIPC2	5.19	11.43	2.2	0.013075	0.039754
ENSOARG00000014368	DYRK1A	28.78	46.34	1.61	0.013099	0.039778
ENSOARG00000005517	ERICH1	10.81	21.36	1.98	0.013099	0.039778
ENSOARG00000015818	LMO7	25.93	16.43	-1.58	0.013111	0.039778
ENSOARG00000012928	HSPA5	465.12	1054.37	2.27	0.013118	0.03978
ENSOARG00000012097	MSI1	7.55	26.13	3.46	0.013148	0.039849
ENSOARG00000008121	C8B	24.64	5.21	-4.73	0.013208	0.039894
ENSOARG00000002568	NATD1	45.17	101.38	2.24	0.013196	0.039894
ENSOARG00000010061	PATZ1	15.99	8.76	-1.83	0.013188	0.039894
ENSOARG00000007055	RFX1	9.67	21.29	2.2	0.013191	0.039894
ENSOARG00000006838	CFL2	59.72	107.82	1.81	0.013219	0.039904
ENSOARG00000007250	IBTK	30.56	70.59	2.31	0.013224	0.039904
ENSOARG00000006997	HMG3	208.21	70.88	-2.94	0.013234	0.039915
ENSOARG00000011947	AFAP1	6.86	13.97	2.04	0.013385	0.03999
ENSOARG00000015984	ARIH2	45.64	70.67	1.55	0.013359	0.03999
ENSOARG00000020113	BMP2K	29.64	70.73	2.39	0.01331	0.03999
ENSOARG00000005128	CDK2AP1	67.31	38.56	-1.75	0.013273	0.03999
ENSOARG00000015965	DNAJA2	120.32	224.73	1.87	0.013346	0.03999
ENSOARG00000021021	DUT	16.86	10.67	-1.58	0.013324	0.03999
ENSOARG00000020622	EPS8	89.74	177.78	1.98	0.013388	0.03999
ENSOARG00000007795	F7	48.28	20.01	-2.41	0.013345	0.03999
ENSOARG00000011463	IER3	278.65	736.86	2.64	0.013385	0.03999
ENSOARG00000009637	KIFC1	9.21	3.73	-2.47	0.013323	0.03999
ENSOARG00000011895	MOSPD2	43.26	65.28	1.51	0.013334	0.03999
ENSOARG00000009534	MRPS31	27.67	47.6	1.72	0.013372	0.03999
ENSOARG00000006160	NSMCE4A	11.23	5.53	-2.03	0.013362	0.03999
ENSOARG00000007247	TMEM106B	47.32	89.84	1.9	0.013363	0.03999
ENSOARG00000011786	MRPL28	52.06	33.57	-1.55	0.013415	0.040011
ENSOARG00000016659	DCHS1	9.94	16.86	1.7	0.013452	0.040078
ENSOARG00000004544	VAT1	309.03	530.93	1.72	0.013463	0.040078
ENSOARG00000017300	FKBP7	26.35	15.58	-1.69	0.013521	0.040138
ENSOARG00000004345	GTF2H5	163.43	104.27	-1.57	0.013512	0.040138
ENSOARG00000010864	SPTLC3	9.43	19.56	2.07	0.013517	0.040138
ENSOARG00000002819	ALOX5	10.61	5.11	-2.08	0.013561	0.040142
ENSOARG00000010566	LOC101115236	22.68	43.6	1.92	0.013571	0.040142

ENSOARG00000017075	MTFR1	51.08	117.76	2.31	0.013582	0.040142
ENSOARG00000020593	PID1	31.54	91.06	2.89	0.013541	0.040142
ENSOARG00000013044	TJP2	49.62	107.3	2.16	0.013608	0.040186
ENSOARG00000016081	UPP1	28.09	15.55	-1.81	0.013616	0.040186
ENSOARG00000016510	LOC101109643	11.9	4.67	-2.55	0.01363	0.040196
ENSOARG00000008034	MAF	47.8	31.02	-1.54	0.013635	0.040196
ENSOARG00000003257	LGALS3BP	118.15	48.7	-2.43	0.013651	0.040212
ENSOARG00000018288	NCKAP5L	15.26	8.25	-1.85	0.013658	0.040214
ENSOARG00000004658	C1S	83.7	42.57	-1.97	0.013738	0.040405
ENSOARG00000013373	JMJD8	47.92	31.36	-1.53	0.013752	0.040405
ENSOARG00000012557	TIRAP	18.55	9.3	-1.99	0.013749	0.040405
ENSOARG00000020816	RORA	6.64	25.5	3.84	0.013775	0.040442
ENSOARG00000001308	PCDH1	152.9	81.77	-1.87	0.013794	0.040478
ENSOARG00000008361	ARSD	12.09	6.77	-1.79	0.013812	0.040494
ENSOARG00000011184	ZFP91	36.77	59.29	1.61	0.013811	0.040494
ENSOARG00000005586	PHYH	121.15	246.33	2.03	0.013833	0.040536
ENSOARG00000001047	ATP6V0E2	19.08	10.42	-1.83	0.013849	0.040543
ENSOARG00000017909	CD59	426.23	241.13	-1.77	0.013869	0.040553
ENSOARG00000013168	IFNGR2	133.06	87.33	-1.52	0.013869	0.040553
ENSOARG00000009938	KYNU	57.66	36.82	-1.57	0.013872	0.040553
ENSOARG00000003372	FLNC	63.7	225.49	3.54	0.013914	0.0406
ENSOARG00000018551	ANP32A	32.41	12.81	-2.53	0.013984	0.040704
ENSOARG00000020383	BDH1	6.25	12.8	2.05	0.014009	0.040704
ENSOARG00000014590	CRYM	14.8	6.56	-2.26	0.01399	0.040704
ENSOARG00000000925	EID1	132.26	64.67	-2.05	0.013965	0.040704
ENSOARG00000012914	SMC5	13.34	25.33	1.9	0.013957	0.040704
ENSOARG00000013765	TCF7	10.54	27.81	2.64	0.014	0.040704
ENSOARG00000013198	UCHL1	134.56	64.92	-2.07	0.014005	0.040704
ENSOARG00000002647	MAP4	271.12	439.73	1.62	0.014023	0.040706
ENSOARG00000004783	CMKLR1	16.99	7.64	-2.22	0.01405	0.040707
ENSOARG00000016514	SP1	50.27	95.59	1.9	0.014042	0.040707
ENSOARG00000010932	ZC3H4	27.38	17.67	-1.55	0.01405	0.040707
ENSOARG00000018902	ESPNL	7.72	1.45	-5.32	0.014078	0.040733
ENSOARG00000014904	TENT4A	21.16	33.38	1.58	0.014076	0.040733
ENSOARG00000012181	TLK2	15.16	26.59	1.75	0.014068	0.040733
ENSOARG00000014334	CDK10	26.17	15.76	-1.66	0.014093	0.040757
ENSOARG00000019116	CIDEB	189.39	68.34	-2.77	0.014158	0.040781
ENSOARG00000005118	KCNK12	37.05	108.58	2.93	0.014147	0.040781
ENSOARG00000008808	MPZL2	5.21	21.44	4.12	0.014157	0.040781
ENSOARG00000015431	ODC1	86.56	158.85	1.84	0.014109	0.040781
ENSOARG00000002725	PLAAT3	11.03	2.54	-4.34	0.014139	0.040781
ENSOARG00000004826	SIRT1	13.21	26.93	2.04	0.014174	0.040781
ENSOARG00000015331	CSNK1E	49.84	78.16	1.57	0.014192	0.040811

ENSOARG00000003489	GGPS1	10	17.57	1.76	0.014198	0.040811
ENSOARG00000004438	EZR	116.21	242.57	2.09	0.014248	0.040861
ENSOARG00000009242	GABRB3	6.72	12.6	1.87	0.014248	0.040861
ENSOARG00000005557	PLSCR1	42.29	24.13	-1.75	0.014236	0.040861
ENSOARG00000006068	ZFP36	97.36	253.3	2.6	0.014233	0.040861
ENSOARG00000012403	FAM207A	13.74	8.66	-1.59	0.014276	0.040921
ENSOARG00000010272	DUSP4	10.93	48.68	4.45	0.014301	0.040976
ENSOARG00000009334	UBAP1	110.42	269.98	2.45	0.014309	0.040978
ENSOARG00000007712	SLC5A3	12.68	38.43	3.03	0.014347	0.041068
ENSOARG00000004295	ATP9B	18.73	10.47	-1.79	0.014373	0.041086
ENSOARG00000006078	COL27A1	33.62	64.75	1.93	0.01436	0.041086
ENSOARG00000003947	CSGALNACT2	11.73	20.98	1.79	0.014372	0.041086
ENSOARG00000016053	-	98.26	179.68	1.83	0.014412	0.041096
ENSOARG00000017259	ABHD8	11.19	5.04	-2.22	0.014453	0.041096
ENSOARG00000003544	COG8	26.17	15.59	-1.68	0.014398	0.041096
ENSOARG00000016804	FBXW4	10.75	17.78	1.65	0.014428	0.041096
ENSOARG00000018463	KIF3C	9.1	17.02	1.87	0.014427	0.041096
ENSOARG00000010144	KLF3	43.54	70.72	1.62	0.01443	0.041096
ENSOARG00000008643	MPZL3	14.36	26.2	1.82	0.014388	0.041096
ENSOARG00000016229	NEMP2	10.63	16.44	1.55	0.014403	0.041096
ENSOARG00000013017	SUZ12	16.1	32.75	2.03	0.014456	0.041096
ENSOARG00000018215	UPRT	22.71	37.67	1.66	0.014447	0.041096
ENSOARG00000006465	-	97.26	204.49	2.1	0.014482	0.04113
ENSOARG00000008573	NNT	44.76	25.27	-1.77	0.014478	0.04113
ENSOARG00000018388	BBS2	17.76	50.3	2.83	0.014509	0.04115
ENSOARG00000000315	POLR3F	11.24	20.36	1.81	0.014496	0.04115
ENSOARG00000016176	CHD7	7.86	18.53	2.36	0.014519	0.04116
ENSOARG00000004700	HEXB	41.33	95.13	2.3	0.014529	0.04117
ENSOARG00000013998	WIPF2	31.92	86.88	2.72	0.014565	0.041254
ENSOARG00000011675	CD2AP	55.49	118.78	2.14	0.014586	0.041285
ENSOARG00000002939	RCC1	11.52	6.18	-1.86	0.014626	0.04135
ENSOARG00000007810	ANKRD16	10.96	4.86	-2.26	0.014641	0.041365
ENSOARG00000017227	APPL2	18.27	9.12	-2	0.014672	0.041422
ENSOARG00000010744	UHMK1	31.85	54.05	1.7	0.014717	0.041495
ENSOARG00000003506	ATP6V1F	243.32	415.37	1.71	0.014752	0.041524
ENSOARG00000000142	HSPA8	292.84	443.02	1.51	0.014783	0.041524
ENSOARG00000016613	TVP23C	51.08	85.66	1.68	0.014772	0.041524
ENSOARG00000004687	XYLT2	22.52	9.4	-2.4	0.014783	0.041524
ENSOARG00000003640	BRD4	49.08	86.21	1.76	0.014827	0.041599
ENSOARG00000019544	PPP1CB	93.96	140.54	1.5	0.014828	0.041599
ENSOARG00000009512	PPME1	29.52	16.83	-1.75	0.014836	0.041602
ENSOARG00000008818	HSD17B8	27.51	17.18	-1.6	0.014872	0.041645
ENSOARG00000012491	CRYZ	55.34	26.04	-2.13	0.014916	0.041694

ENSOARG00000020165	ZHX2	14.34	40.83	2.85	0.01491	0.041694
ENSOARG00000011634	SPR	41	24.59	-1.67	0.014926	0.041703
ENSOARG00000015776	C21orf91	14.99	31.5	2.1	0.014966	0.041757
ENSOARG00000012400	EPHA2	60.78	123.69	2.04	0.015014	0.041759
ENSOARG00000016991	HSPB2	53.02	94.56	1.78	0.015011	0.041759
ENSOARG00000003620	KCP	7.26	1.4	-5.19	0.014995	0.041759
ENSOARG00000001261	SPAG1	9.44	19.63	2.08	0.014987	0.041759
ENSOARG00000018528	TGM2	42.72	118.09	2.76	0.01501	0.041759
ENSOARG00000003896	LAMTOR1	103.8	159.25	1.53	0.015031	0.041787
ENSOARG00000001906	BUD13	16.03	31	1.93	0.01505	0.041822
ENSOARG00000008122	CMC2	32.37	16.59	-1.95	0.015118	0.041953
ENSOARG00000012909	HK2	7.14	33.54	4.7	0.01512	0.041953
ENSOARG00000003629	LGALS8	38.79	25.88	-1.5	0.015124	0.041953
ENSOARG00000005848	ECH1	15.38	9.32	-1.65	0.015173	0.041956
ENSOARG00000014103	NOCT	28.76	46.37	1.61	0.015167	0.041956
ENSOARG00000006053	PAF1	66.84	106.35	1.59	0.015147	0.041956
ENSOARG00000021060	RORC	31.54	11.27	-2.8	0.015142	0.041956
ENSOARG00000004279	SLC7A9	15.73	2.73	-5.76	0.01516	0.041956
ENSOARG00000012477	ZNF143	12.47	29.66	2.38	0.015173	0.041956
ENSOARG00000002903	AC078927.1	259.32	432.02	1.67	0.015189	0.041976
ENSOARG00000006415	SFR1	10.11	21.71	2.15	0.015238	0.04208
ENSOARG00000001013	RNF19A	49.77	78.05	1.57	0.015249	0.042083
ENSOARG00000011183	CEBPG	73.93	191.37	2.59	0.015299	0.042149
ENSOARG00000000832	MGAT2	65.88	41.02	-1.61	0.015315	0.042149
ENSOARG00000016178	NREP	89.64	35.34	-2.54	0.015313	0.042149
ENSOARG00000010858	VGF	228.56	599.13	2.62	0.015306	0.042149
ENSOARG00000017667	FKBP10	39.52	20.28	-1.95	0.015335	0.042156
ENSOARG00000007280	SEC14L2	13.29	7.96	-1.67	0.015341	0.042156
ENSOARG00000016244	NCKIPSD	9.58	15.32	1.6	0.015375	0.042195
ENSOARG00000005341	MRM2	16.08	10.02	-1.6	0.015396	0.042215
ENSOARG00000004352	SIAH2	46.57	79.89	1.72	0.015404	0.042218
ENSOARG00000012663	STK26	7.99	14.81	1.85	0.015411	0.042218
ENSOARG00000014802	ARHGEF3	4.42	11.91	2.69	0.015459	0.042257
ENSOARG00000020580	CHRD	12.5	5.81	-2.15	0.015462	0.042257
ENSOARG00000004241	SMO	47.12	28.22	-1.67	0.015466	0.042257
ENSOARG00000010825	AUTS2	22.57	36.96	1.64	0.015519	0.042272
ENSOARG00000004489	EGR2	6.11	12.46	2.04	0.0155	0.042272
ENSOARG00000010628	PACC1	19.43	34.57	1.78	0.015492	0.042272
ENSOARG00000015307	PANK1	13.39	6.34	-2.11	0.015511	0.042272
ENSOARG00000001513	SLC26A11	12.92	4.98	-2.59	0.015481	0.042272
ENSOARG00000008508	ZBTB10	7.41	14.7	1.98	0.015542	0.042313
ENSOARG00000009200	SLC2A10	11.46	4.07	-2.82	0.015549	0.042316
ENSOARG00000004417	C4orf46	13.18	6.97	-1.89	0.015565	0.042339

ENSOARG00000008601	-	18.45	4.77	-3.87	0.015599	0.04235
ENSOARG00000002144	LDLRAD4	15.98	7.84	-2.04	0.01561	0.04235
ENSOARG00000000757	MYNN	14.11	29.47	2.09	0.015591	0.04235
ENSOARG000000006673	MYO6	9.39	14.7	1.57	0.015632	0.042391
ENSOARG00000002954	KAT6A	14.57	23.26	1.6	0.015707	0.042503
ENSOARG000000012748	GPNMB	82.54	185.04	2.24	0.015749	0.042527
ENSOARG000000006114	KIF12	81.96	37.27	-2.2	0.015735	0.042527
ENSOARG000000009470	RNASEK	396.83	696.71	1.76	0.01573	0.042527
ENSOARG000000003846	SLC5A9	8.72	1.04	-8.38	0.015751	0.042527
ENSOARG000000015004	TASOR	20.47	12.28	-1.67	0.015745	0.042527
ENSOARG000000017824	TP53I3	11.23	5.59	-2.01	0.015778	0.042565
ENSOARG000000013207	RCN3	39.9	24.19	-1.65	0.015811	0.042633
ENSOARG000000007720	PLPP1	153.33	97.35	-1.58	0.01583	0.042666
ENSOARG000000000935	ABCC4	17.57	27.07	1.54	0.015853	0.042673
ENSOARG000000009687	SLC39A5	43.86	19.99	-2.19	0.015853	0.042673
ENSOARG000000017752	AMIGO2	50.1	179.08	3.57	0.01587	0.042681
ENSOARG000000009667	ARMC6	18.95	9.85	-1.92	0.015909	0.042713
ENSOARG000000011122	CLEC3B	43.34	26.02	-1.67	0.015937	0.042713
ENSOARG000000010315	DUSP12	14.13	24.92	1.76	0.015925	0.042713
ENSOARG000000010177	MED30	21.8	34	1.56	0.01589	0.042713
ENSOARG000000020754	OTUD7B	20.67	41.96	2.03	0.015937	0.042713
ENSOARG000000012100	SLC46A3	33.45	15.93	-2.1	0.0159	0.042713
ENSOARG000000017615	TOX3	39.27	124.51	3.17	0.015926	0.042713
ENSOARG000000015891	FAM168B	77.4	126.94	1.64	0.015954	0.04274
ENSOARG000000020682	TTC14	29.2	16.75	-1.74	0.01599	0.042799
ENSOARG000000017789	SNTB1	46.23	22.99	-2.01	0.016	0.042808
ENSOARG000000011418	AMIGO1	12.93	4.05	-3.19	0.016018	0.042819
ENSOARG000000008648	MTMR2	28.98	68.23	2.35	0.016014	0.042819
ENSOARG000000014033	ASPDH	9.3	2.28	-4.08	0.016035	0.042844
ENSOARG000000002455	FAAH	27.22	16.98	-1.6	0.016049	0.042866
ENSOARG000000005065	ACAP3	12.7	7.3	-1.74	0.016071	0.042874
ENSOARG000000007567	TTC39C	13.03	22.18	1.7	0.016101	0.042874
ENSOARG000000002941	ULBP3	43.98	92.01	2.09	0.016076	0.042874
ENSOARG000000012603	RASL11A	39.38	10.02	-3.93	0.016127	0.042925
ENSOARG000000007682	HAUS7	22.55	45.23	2.01	0.016176	0.042991
ENSOARG000000014807	MTPAP	16.07	24.87	1.55	0.01618	0.042991
ENSOARG000000015319	KLF11	19.32	36.46	1.89	0.016203	0.043015
ENSOARG000000014653	NFS1	19.15	10.83	-1.77	0.016263	0.043138
ENSOARG000000012390	MYLIP	8.91	31.17	3.5	0.01638	0.043393
ENSOARG000000013481	SLC39A4	17.01	9.39	-1.81	0.016436	0.043503
ENSOARG000000003338	HNF1B	11.16	6.12	-1.82	0.01651	0.043606
ENSOARG000000018986	RRP7A	23.45	11.7	-2	0.016503	0.043606
ENSOARG000000020876	ZNF280D	8.22	15.53	1.89	0.016539	0.043628

ENSOARG00000000944	TRIM21	14.54	7.09	-2.05	0.016613	0.043767
ENSOARG00000004709	FXD1	93.21	51.78	-1.8	0.016631	0.043792
ENSOARG00000005098	ST3GAL2	32.61	12.09	-2.7	0.016637	0.043792
ENSOARG00000004523	SOD2	841.91	1800.43	2.14	0.016651	0.04381
ENSOARG00000003685	SLC4A11	37.05	17.22	-2.15	0.016667	0.043813
ENSOARG000000011732	SLC30A10	10.42	3.37	-3.09	0.016701	0.043867
ENSOARG00000006539	SAMD1	24.35	12.81	-1.9	0.016722	0.043885
ENSOARG00000009644	NHLRC3	32.88	18.5	-1.78	0.016735	0.043901
ENSOARG000000019625	RAB2B	30.14	46.68	1.55	0.016742	0.043901
ENSOARG000000020781	RPIA	25.04	45.69	1.82	0.016759	0.043926
ENSOARG000000015161	RAP2B	106.39	261.04	2.45	0.016782	0.043949
ENSOARG000000010526	C2CD2	10.14	16.73	1.65	0.016797	0.043968
ENSOARG000000015898	ROCK2	45.59	86.26	1.89	0.016819	0.043973
ENSOARG000000001863	SEMA6A	8.33	25.69	3.08	0.01682	0.043973
ENSOARG00000006286	SGPL1	102.71	168.44	1.64	0.016816	0.043973
ENSOARG000000015417	MAPRE1	18.62	31.18	1.67	0.016868	0.044044
ENSOARG000000017460	RAC3	28.13	17.2	-1.64	0.016861	0.044044
ENSOARG000000017816	CRY1	9.3	28.09	3.02	0.016886	0.044059
ENSOARG000000013134	MTARC2	168.48	92.89	-1.81	0.016888	0.044059
ENSOARG000000006185	ABHD16A	48.19	29.96	-1.61	0.016914	0.044088
ENSOARG00000000674	S100A2	851.87	1716.3	2.01	0.016954	0.044137
ENSOARG000000018649	ABT1	26.84	41.83	1.56	0.016966	0.04415
ENSOARG00000004252	ILVBL	96.14	152.97	1.59	0.017005	0.044197
ENSOARG000000009170	RMDN2	16.18	10.29	-1.57	0.016994	0.044197
ENSOARG000000020631	ABCC5	17.85	48.36	2.71	0.017021	0.044218
ENSOARG000000011869	AMACR	90.87	60.1	-1.51	0.017041	0.044235
ENSOARG000000017414	DNAJC2	9.97	15.17	1.52	0.017049	0.044235
ENSOARG000000013136	PITRM1	28.08	51.47	1.83	0.017085	0.044292
ENSOARG000000014988	AHNAK	60.4	32.37	-1.87	0.017147	0.044326
ENSOARG000000009034	BET1L	29.81	15.91	-1.87	0.017144	0.044326
ENSOARG000000016528	BTAF1	11.29	19.19	1.7	0.017162	0.044326
ENSOARG000000016913	NPEPL1	15.96	8.51	-1.88	0.017134	0.044326
ENSOARG000000012078	REEP6	14.04	7.52	-1.87	0.017139	0.044326
ENSOARG000000016855	SLC23A2	15.56	28.06	1.8	0.01717	0.044326
ENSOARG000000000378	TCEAL8	179.73	82.5	-2.18	0.017186	0.04435
ENSOARG000000012776	APLNR	22.99	5.82	-3.95	0.017227	0.04442
ENSOARG000000009365	COMMD7	48.97	24.78	-1.98	0.017235	0.04442
ENSOARG000000026123	-	20.9	9.14	-2.29	0.017267	0.04447
ENSOARG000000007803	C21orf62	35.27	11.03	-3.2	0.017276	0.04447
ENSOARG000000012463	GYS1	10.14	22.7	2.24	0.017275	0.04447
ENSOARG000000004677	SCN1B	71.68	32.63	-2.2	0.017315	0.044553
ENSOARG000000016847	COG7	14.46	8.96	-1.61	0.017366	0.044636
ENSOARG000000012366	MFSD12	57.7	121.69	2.11	0.017369	0.044636

ENSOARG00000012096	SUV39H1	15.63	9.19	-1.7	0.017379	0.044643
ENSOARG00000014053	BTBD1	39.87	92.55	2.32	0.01739	0.044652
ENSOARG00000013718	ERLIN1	18.72	12.29	-1.52	0.017425	0.044704
ENSOARG00000010948	DERL1	60.68	94.6	1.56	0.017441	0.044715
ENSOARG00000015829	PTPN18	14.07	8.88	-1.58	0.017445	0.044715
ENSOARG00000001691	TMEM176B	130.62	69.71	-1.87	0.01748	0.044759
ENSOARG00000014101	MCOLN3	2.03	7.93	3.91	0.017512	0.044816
ENSOARG00000025181	SLC35A4	34.68	22.49	-1.54	0.017547	0.044888
ENSOARG00000004194	TIAM2	3.67	11.42	3.11	0.017637	0.045024
ENSOARG00000014923	B3GALNT1	4.14	10.47	2.53	0.017649	0.045035
ENSOARG00000014623	TCF21	21.17	11.64	-1.82	0.017656	0.045035
ENSOARG00000010190	TCF19	9.97	4.51	-2.21	0.017746	0.045211
ENSOARG00000011436	MGAT5	10.21	16.2	1.59	0.017777	0.045219
ENSOARG00000003976	SH2D4A	22.79	14.8	-1.54	0.017775	0.045219
ENSOARG00000003559	ABCC3	14.05	31.44	2.24	0.017796	0.045243
ENSOARG00000008337	CAMK2G	16.83	9.35	-1.8	0.017831	0.045284
ENSOARG00000010496	OSBPL3	9.79	24.73	2.53	0.017834	0.045284
ENSOARG00000011149	CRYBG1	15.08	6.14	-2.46	0.017861	0.045336
ENSOARG00000002260	MDFI	66.38	26.86	-2.47	0.017891	0.045391
ENSOARG00000014953	EREG	7.29	27.28	3.74	0.017911	0.0454
ENSOARG00000010414	GHITM	67.32	109.17	1.62	0.017904	0.0454
ENSOARG00000017129	ZBED5	11.02	3.9	-2.83	0.017944	0.045453
ENSOARG00000008856	FBXO33	22.6	14.45	-1.56	0.017997	0.045549
ENSOARG00000011846	NTN4	61.42	115.2	1.88	0.018005	0.045549
ENSOARG00000008022	SORBS2	46.06	26.83	-1.72	0.018021	0.045573
ENSOARG00000000536	AGPAT1	15.54	9.81	-1.58	0.01807	0.045583
ENSOARG00000004173	GLYR1	45.3	29.35	-1.54	0.018056	0.045583
ENSOARG00000017427	LDB1	31.39	20.99	-1.5	0.018044	0.045583
ENSOARG00000013452	MITD1	23.26	12.67	-1.84	0.018059	0.045583
ENSOARG00000016775	ATF4	810.28	1964.12	2.42	0.018096	0.045595
ENSOARG00000009421	ENOSF1	23.28	12.06	-1.93	0.018085	0.045595
ENSOARG00000018137	TIMM10B	74.67	154.91	2.07	0.01812	0.045636
ENSOARG00000002923	TIPARP	20.97	57.43	2.74	0.018152	0.04568
ENSOARG00000000328	TCEAL9	49.39	25.74	-1.92	0.018207	0.045782
ENSOARG00000004931	RAB3B	2.3	10.21	4.44	0.018225	0.045783
ENSOARG00000014772	ADD1	32.41	19.83	-1.63	0.018239	0.045786
ENSOARG00000002512	COMMD4	41.02	24.73	-1.66	0.018254	0.045786
ENSOARG00000026365	-	15.27	8.59	-1.78	0.018285	0.045811
ENSOARG00000009992	AKR7L	14.09	6.96	-2.02	0.018274	0.045811
ENSOARG00000004239	CPEB4	13.15	29.39	2.23	0.018286	0.045811
ENSOARG00000025779	-	1.64	13.1	7.99	0.018325	0.045853
ENSOARG00000019208	C1QTNF6	14.65	6.75	-2.17	0.018317	0.045853
ENSOARG00000003012	PLEKHG1	18.35	28.04	1.53	0.018319	0.045853

ENSOARG00000005409	DHX8	25.92	45.62	1.76	0.018347	0.04587
ENSOARG00000013190	MAP4K4	66.44	109.34	1.65	0.018345	0.04587
ENSOARG00000013819	GRB10	27.4	42.44	1.55	0.018368	0.045887
ENSOARG00000017588	-	3.53	9.42	2.67	0.01845	0.045968
ENSOARG00000010799	FBXL20	12.26	19.91	1.62	0.018453	0.045968
ENSOARG00000004859	HOPX	112.13	207.14	1.85	0.018432	0.045968
ENSOARG00000012925	KLF6	75.31	113.77	1.51	0.018441	0.045968
ENSOARG00000003115	GALNT2	67.78	45.18	-1.5	0.018526	0.046078
ENSOARG00000013501	STK38	25.38	50.74	2	0.018546	0.046089
ENSOARG00000006382	UNC5B	39.86	60.99	1.53	0.01854	0.046089
ENSOARG00000020808	EMP1	34.4	99.16	2.88	0.018592	0.046185
ENSOARG00000000326	-	24.68	11.28	-2.19	0.018675	0.046242
ENSOARG00000018595	FAM13A	7.89	13.13	1.66	0.018667	0.046242
ENSOARG00000012426	GOT1	30.56	55.66	1.82	0.018651	0.046242
ENSOARG00000014954	XPNPEP2	41.88	17.55	-2.39	0.018669	0.046242
ENSOARG00000018383	DHX58	12.53	3.82	-3.28	0.018711	0.046258
ENSOARG00000009749	PLCD3	5.41	11.25	2.08	0.018706	0.046258
ENSOARG00000003080	STK3	26.38	42.26	1.6	0.018696	0.046258
ENSOARG00000005660	PCTP	36.01	21.81	-1.65	0.01873	0.046272
ENSOARG00000006256	RSRP1	22.22	13.59	-1.64	0.018732	0.046272
ENSOARG00000016924	ZNF385B	52.39	103.25	1.97	0.018759	0.046321
ENSOARG00000015176	NUDT5	12.46	3.92	-3.18	0.018812	0.046432
ENSOARG00000006399	DSG2	52.35	84.16	1.61	0.018831	0.046437
ENSOARG00000015468	EPB41L1	20.15	41.33	2.05	0.018836	0.046437
ENSOARG00000019655	IGSF11	9.32	3.09	-3.02	0.018854	0.046463
ENSOARG00000004515	C1R	180.9	114.13	-1.59	0.018888	0.046472
ENSOARG00000020078	EAF2	14.25	6.07	-2.35	0.018876	0.046472
ENSOARG00000005832	PJA1	14.68	8.46	-1.74	0.018885	0.046472
ENSOARG00000007546	DCAF1	16.77	25.11	1.5	0.01891	0.04649
ENSOARG00000015847	MYL9	109.85	52.38	-2.1	0.018908	0.04649
ENSOARG00000013394	KCTD20	58.03	117.66	2.03	0.018929	0.046499
ENSOARG00000016733	FGA	1360.89	693.04	-1.96	0.019059	0.046651
ENSOARG00000016857	FNBP1L	28.94	58.22	2.01	0.019057	0.046651
ENSOARG00000009856	HEXIM2	11.82	3.1	-3.81	0.019049	0.046651
ENSOARG00000016259	INPP1	90.47	138.65	1.53	0.019096	0.046651
ENSOARG00000005573	MAGEH1	19.11	12.78	-1.5	0.019058	0.046651
ENSOARG00000019315	NRBP1	151.86	260.54	1.72	0.019096	0.046651
ENSOARG00000000485	SOD3	10.98	3.7	-2.97	0.019093	0.046651
ENSOARG00000008423	SOS1	15.84	28.56	1.8	0.019059	0.046651
ENSOARG00000007238	PAK1	39.56	73.31	1.85	0.019113	0.046672
ENSOARG00000013699	COG1	28.79	18.26	-1.58	0.019196	0.04684
ENSOARG00000005067	VHL	39.21	26.07	-1.5	0.019206	0.046844
ENSOARG00000019350	PECR	33.67	14.69	-2.29	0.019256	0.046875

ENSOARG00000001026	SLC13A5	16.34	6.87	-2.38	0.019247	0.046875
ENSOARG00000009811	SUGP2	23.98	7.24	-3.31	0.019236	0.046875
ENSOARG00000011482	GRHPR	14.37	6.88	-2.09	0.019288	0.046915
ENSOARG00000014939	CLDN15	23.26	7.45	-3.12	0.01932	0.046937
ENSOARG00000012018	SYBU	17.56	8.05	-2.18	0.019316	0.046937
ENSOARG00000006919	KIF2A	16.82	28.97	1.72	0.019346	0.046945
ENSOARG00000020987	RFX5	10.48	5.16	-2.03	0.019341	0.046945
ENSOARG00000008939	WDFY2	9.96	15.74	1.58	0.01938	0.04699
ENSOARG00000010960	ALG2	28.18	17.36	-1.62	0.019402	0.047008
ENSOARG00000014496	CXCL8	34.14	117.42	3.44	0.019412	0.047012
ENSOARG00000009498	NFKBIE	17.36	11.43	-1.52	0.019419	0.047013
ENSOARG00000005944	ADGRE5	95.82	60.98	-1.57	0.019485	0.04706
ENSOARG00000007254	MCU	57.46	92.68	1.61	0.019451	0.04706
ENSOARG00000013351	TMEM102	7.93	1.64	-4.84	0.019471	0.04706
ENSOARG00000016350	RNF39	6.92	18.4	2.66	0.019502	0.047084
ENSOARG00000014800	IFIT3	39.51	10.83	-3.65	0.019536	0.047138
ENSOARG00000005665	PTK7	32.71	21.83	-1.5	0.01954	0.047138
ENSOARG00000009518	SOX4	76.04	220.23	2.9	0.019631	0.047302
ENSOARG00000011865	ERBB2	75.55	28.6	-2.64	0.019655	0.047343
ENSOARG00000018865	KIAA1671	22.24	52.2	2.35	0.019714	0.047448
ENSOARG00000020846	ZNF362	10.83	5.32	-2.04	0.019723	0.047451
ENSOARG00000006990	CCNJ	8.12	23.9	2.94	0.019734	0.047454
ENSOARG00000013412	DENND6A	9.9	16.88	1.71	0.019755	0.047454
ENSOARG00000011356	GADD45A	122.07	425.92	3.49	0.019753	0.047454
ENSOARG00000011930	NRM	23.32	13.86	-1.68	0.01974	0.047454
ENSOARG00000014258	F13B	68.41	31.13	-2.2	0.019772	0.047475
ENSOARG00000019578	ANO6	48.05	82.05	1.71	0.019887	0.047678
ENSOARG00000009050	APOF	28.9	5.61	-5.15	0.019885	0.047678
ENSOARG00000016442	USP31	4.6	10.07	2.19	0.019927	0.047738
ENSOARG00000020351	NRROS	13.06	22.08	1.69	0.019952	0.04776
ENSOARG00000020711	PIK3CA	18.48	30.23	1.64	0.019989	0.047829
ENSOARG00000020533	VAMP8	110.45	67.42	-1.64	0.020093	0.048005
ENSOARG00000014060	FAHD2A	32.95	17.55	-1.88	0.020146	0.048074
ENSOARG00000013728	NICN1	21.08	11.53	-1.83	0.020182	0.048135
ENSOARG00000014975	GTF3C3	9.21	14.28	1.55	0.020195	0.048137
ENSOARG00000000500	RNF24	2.79	9.64	3.46	0.020298	0.048271
ENSOARG00000016019	-	9.02	3.05	-2.96	0.020334	0.048278
ENSOARG00000000040	ACBD3	53.29	82.28	1.54	0.020325	0.048278
ENSOARG00000011734	FBXO31	42.81	28.01	-1.53	0.020336	0.048278
ENSOARG00000007864	LCP1	103.95	180.73	1.74	0.02034	0.048278
ENSOARG00000000194	ATF2	27.37	47.6	1.74	0.020383	0.048332
ENSOARG00000009537	DUSP5	45.84	124.8	2.72	0.02043	0.048393
ENSOARG00000011042	LOC101113745	21.97	10.99	-2	0.020486	0.048457

ENSOARG00000002687	TUBG1	25.15	14.03	-1.79	0.02048	0.048457
ENSOARG000000018727	FAM13A	24.89	61.11	2.46	0.020574	0.048628
ENSOARG000000006780	KBTBD2	26.03	43.67	1.68	0.020619	0.048678
ENSOARG000000005972	TNFSF15	3.6	11.67	3.24	0.020619	0.048678
ENSOARG000000020984	TRPM7	14.94	24.36	1.63	0.020632	0.04869
ENSOARG000000006799	ACOT8	15.61	9.31	-1.68	0.02069	0.048752
ENSOARG000000016432	ATG12	27.03	46.74	1.73	0.020756	0.048853
ENSOARG000000002809	GMEB1	9.92	18.32	1.85	0.020754	0.048853
ENSOARG000000001920	SLC22A9	19.12	1.31	-14.6	0.020748	0.048853
ENSOARG000000010273	SIX5	14.85	7.33	-2.03	0.020773	0.048863
ENSOARG000000003377	SPINDOC	7.03	13.4	1.91	0.020776	0.048863
ENSOARG000000013621	GYPC	27.44	15.84	-1.73	0.020785	0.048865
ENSOARG000000016807	SAMHD1	30.49	19.04	-1.6	0.020839	0.048954
ENSOARG000000002055	FOXP4	47.22	80.77	1.71	0.020866	0.048998
ENSOARG000000010139	WASF1	2.68	9.64	3.6	0.020946	0.049151
ENSOARG000000015254	FBXO9	41.68	24.5	-1.7	0.020969	0.049185
ENSOARG000000006514	FRMD4A	20.82	13.32	-1.56	0.020992	0.049201
ENSOARG000000016594	ASPH	26.32	16.01	-1.64	0.021018	0.049243
ENSOARG000000005907	CD180	12.09	4.82	-2.51	0.021051	0.049292
ENSOARG000000007779	MANF	148.53	224.27	1.51	0.021055	0.049292
ENSOARG000000019131	DHRS1	122.73	79.99	-1.53	0.021091	0.04934
ENSOARG000000004975	KHDC4	35.56	21.27	-1.67	0.021121	0.049372
ENSOARG000000017872	AMMECR1	39.98	96.84	2.42	0.021203	0.049384
ENSOARG000000015908	ANKRD1	203.87	856.58	4.2	0.021169	0.049384
ENSOARG000000013781	PARD6B	50.43	99.94	1.98	0.021165	0.049384
ENSOARG000000004233	PML	21.51	11.99	-1.79	0.021186	0.049384
ENSOARG000000006968	PTPN3	34.6	19.97	-1.73	0.02117	0.049384
ENSOARG000000015011	ROM1	10.46	4.07	-2.57	0.021206	0.049384
ENSOARG000000001693	TSPAN3	138.14	214.14	1.55	0.021172	0.049384
ENSOARG000000010392	TMEM51	54.03	83.95	1.55	0.021221	0.049395
ENSOARG000000013061	UBLCP1	56.94	34.63	-1.64	0.021234	0.049395
ENSOARG000000000089	GTF3C1	22.87	14.17	-1.61	0.021325	0.049549
ENSOARG000000012445	PTP4A1	74.73	131.05	1.75	0.021346	0.04958
ENSOARG000000009235	RFXANK	22.49	13.92	-1.62	0.021354	0.04958
ENSOARG000000025508	-	7.72	2.21	-3.49	0.021393	0.049652
ENSOARG000000005859	SLC25A22	23.34	15.56	-1.5	0.021451	0.049711
ENSOARG000000010596	GMEB2	21.44	33.85	1.58	0.021472	0.049741
ENSOARG000000014176	CCNA2	8.91	3.2	-2.78	0.021501	0.049753
ENSOARG000000011253	HAPLN3	24.35	13.39	-1.82	0.021509	0.049753
ENSOARG000000007365	HRAS	60.75	109.07	1.8	0.021502	0.049753
ENSOARG000000019332	CCDC80	83.76	27.23	-3.08	0.021534	0.04977
ENSOARG000000016073	DNAL4	12.36	28.62	2.32	0.02154	0.04977
ENSOARG000000019942	OLFML3	181.69	64.86	-2.8	0.021562	0.0498

ENSOARG00000010952	ARHGEF6	37.34	24.81	-1.51	0.021586	0.049831
ENSOARG00000003704	NUDT16L1	27.41	15.09	-1.82	0.021591	0.049831
ENSOARG00000008461	HABP4	21.13	36.63	1.73	0.021614	0.049847
ENSOARG00000005798	MT-ND4L	130.97	72.6	-1.8	0.02161	0.049847
ENSOARG00000016628	CDKN2D	14.47	26.09	1.8	0.021665	0.049895
ENSOARG00000008040	CTF1	17.42	7.77	-2.24	0.021667	0.049895
ENSOARG00000003550	MAP3K6	11.5	4.99	-2.3	0.021751	0.049921
ENSOARG00000012375	MLXIPL	17.03	4.99	-3.41	0.021722	0.049921
ENSOARG00000001571	NADSYN1	9.53	4.22	-2.26	0.021736	0.049921
ENSOARG00000011030	NDUFV3	29.98	45.45	1.52	0.021732	0.049921
ENSOARG00000008585	ASF1A	23.85	15.91	-1.5	0.021795	0.049985