

row.names	GeneSym	r	pval	n	IPFsig	Description
ENSG00000197818	SLC9A8	0.628861777	5.21123E-05	35	FALSE	solute carrier family 9 member A8
ENSG00000163428	LRRC58	-0.628581035	5.26373E-05	35	FALSE	leucine rich repeat containing 58
ENSG00000070214	SLC44A1	-0.62479102	6.02081E-05	35	TRUE	solute carrier family 44 member 1
ENSG00000171951	SCG2	-0.588154207	0.000202637	35	TRUE	secretogranin II
ENSG00000166454	ATMIN	-0.616509135	8.02719E-05	35	FALSE	ATM interactor
ENSG00000122591	FAM126A	-0.614824684	8.50235E-05	35	FALSE	family with sequence similarity 126 member A
ENSG00000112200	ZNF451	-0.610753927	9.75683E-05	35	FALSE	zinc finger protein 451
ENSG00000166181	API5	-0.609209846	0.000102746	35	FALSE	apoptosis inhibitor 5
ENSG00000127948	POR	0.607665766	0.00010817	35	FALSE	cytochrome p450 oxidoreductase
ENSG00000178904	DPY19L3	-0.602752784	0.000127181	35	FALSE	dpy-19 like 3 (C. elegans)
ENSG00000111596	CNOT2	-0.601629816	0.000131927	35	FALSE	CCR4-NOT transcription complex subunit 2
ENSG00000004897	CDC27	-0.600226107	0.000138083	35	FALSE	cell division cycle 27
ENSG00000169490	TM2D2	-0.59166348	0.000181541	35	FALSE	TM2 domain containing 2
ENSG00000110367	DDX6	-0.591242367	0.000183965	35	FALSE	DEAD-box helicase 6
ENSG00000124767	GLO1	-0.532567317	0.000989844	35	TRUE	glyoxalase I
ENSG00000143195	ILDR2	-0.580714547	0.000254767	35	FALSE	immunoglobulin like domain containing receptor 2
ENSG00000119812	FAM98A	-0.577626387	0.000279714	35	FALSE	family with sequence similarity 98 member A
ENSG00000145390	USP53	-0.528075448	0.001112177	35	TRUE	ubiquitin specific peptidase 53
ENSG00000164176	EDIL3	-0.574818968	0.000304261	35	FALSE	EGF like repeats and discoidin domains 3
ENSG00000111727	HCFC2	-0.574257484	0.000309396	35	FALSE	host cell factor C2
ENSG00000165338	HECTD2	-0.574117113	0.000310691	35	FALSE	HECT domain E3 ubiquitin protein ligase 2
ENSG00000152705	CATSPER3	0.570888582	0.000341855	35	FALSE	cation channel sperm associated 3
ENSG00000138760	SCARB2	-0.56457189	0.000410995	35	FALSE	scavenger receptor class B member 2
ENSG00000185532	PRKG1	-0.561483729	0.000449121	35	FALSE	protein kinase, cGMP-dependent, type I
ENSG00000080802	CNOT4	-0.560220391	0.000465603	35	FALSE	CCR4-NOT transcription complex subunit 4
ENSG00000123737	EXOSC9	-0.558676311	0.000486477	35	FALSE	exosome component 9
ENSG00000115274	INO80B	0.557272601	0.000506171	35	FALSE	INO80 complex subunit B
ENSG00000102401	ARMCX3	-0.556430376	0.000518324	35	FALSE	armadillo repeat containing, X-linked 3
ENSG00000176871	WSB2	-0.554184441	0.000552009	35	FALSE	WD repeat and SOCS box containing 2
ENSG00000150687	PRSS23	-0.55249999	0.000578533	35	FALSE	protease, serine 23
ENSG00000083642	PDS5B	-0.549411829	0.000630111	35	FALSE	PDS5 cohesin associated factor B
ENSG00000164506	STXBP5	-0.549131087	0.000634996	35	FALSE	syntaxin binding protein 5
ENSG00000124313	IQSEC2	0.548709975	0.000642387	35	FALSE	IQ motif and Sec7 domain 2
ENSG00000186815	TPCN1	0.547446636	0.000665018	35	FALSE	two pore segment channel 1
ENSG00000172380	GNG12	-0.544077734	0.00072886	35	FALSE	G protein subunit gamma 12
ENSG00000151135	TMEM263	-0.54351625	0.000740011	35	FALSE	transmembrane protein 263
ENSG00000128294	TPST2	-0.522179868	0.001292849	35	TRUE	tyrosylprotein sulfotransferase 2
ENSG00000143155	TIPRL	-0.538041784	0.000856914	35	FALSE	TOR signaling pathway regulator
ENSG00000198440	ZNF583	-0.537059187	0.000879541	35	FALSE	zinc finger protein 583

ENSG00000101138	CSTF1	-0.534392139	0.000943643	35	FALSE	cleavage stimulation factor subunit 1
ENSG00000064703	DDX20	-0.533269172	0.000971844	35	FALSE	DEAD-box helicase 20
ENSG00000042429	MED17	-0.533128801	0.00097542	35	FALSE	mediator complex subunit 17
ENSG00000206538	VGLL3	-0.518109111	0.001432208	35	TRUE	vestigial like family member 3
ENSG00000184575	XPOT	-0.514459467	0.001568197	35	TRUE	exportin for tRNA
ENSG00000140350	ANP32A	0.529479157	0.001072591	35	FALSE	acidic nuclear phosphoprotein 32 family member A
ENSG00000133943	C14orf159	0.529198415	0.001080407	35	FALSE	chromosome 14 open reading frame 159
ENSG00000137558	PI15	-0.511090565	0.001703649	35	TRUE	peptidase inhibitor 15
ENSG00000087448	KLHL42	-0.527233222	0.001136541	35	FALSE	kelch like family member 42
ENSG00000143882	ATP6V1C2	0.525689142	0.001182433	35	FALSE	ATPase H+ transporting V1 subunit C2
ENSG00000153936	HS2ST1	-0.5254084	0.00119095	35	FALSE	heparan sulfate 2-O-sulfotransferase 1
ENSG00000144724	PTPRG	-0.510809823	0.001715386	35	TRUE	protein tyrosine phosphatase, receptor type G
ENSG00000158290	CUL4B	-0.519933933	0.001368184	35	FALSE	cullin 4B
ENSG00000134318	ROCK2	-0.519232079	0.001392505	35	FALSE	Rho associated coiled-coil containing protein kinase 2
ENSG00000178752	ERFE	-0.503370163	0.002053369	35	TRUE	erythroferrone
ENSG00000151835	SACS	-0.494947907	0.002504995	35	TRUE	sacsin molecular chaperone
ENSG00000065308	TRAM2	-0.516143918	0.001504086	35	FALSE	translocation associated membrane protein 2
ENSG00000112208	BAG2	-0.48175304	0.003386762	35	TRUE	BCL2 associated athanogene 2
ENSG00000114656	KIAA1257	0.511230936	0.001697807	35	FALSE	
ENSG00000164659	KIAA1324L	-0.480349331	0.003494772	35	TRUE	KIAA1324 like
ENSG00000168785	TSPAN5	-0.479366734	0.003572144	35	TRUE	tetraspanin 5
ENSG00000097033	SH3GLB1	-0.510669452	0.001721282	35	FALSE	SH3 domain containing GRB2 like endophilin B1
ENSG00000061987	MON2	-0.509406114	0.001775142	35	FALSE	MON2 homolog, regulator of endosome-to-Golgi trafficking
ENSG00000104331	IMPAD1	-0.508002404	0.001836713	35	FALSE	inositol monophosphatase domain containing 1
ENSG00000169446	MMGT1	-0.506739066	0.001893718	35	FALSE	membrane magnesium transporter 1
ENSG00000075223	SEMA3C	-0.477822654	0.003696731	35	TRUE	semaphorin 3C
ENSG00000204390	HSPA1L	0.506177582	0.001919547	35	FALSE	heat shock protein family A (Hsp70) member 1 like
ENSG00000167280	ENGASE	0.504212389	0.002012391	35	FALSE	endo-beta-N-acetylglucosaminidase
ENSG00000114735	HEMK1	0.503510534	0.002046489	35	FALSE	HemK methyltransferase family member 1
ENSG00000132031	MATN3	-0.472909671	0.004118528	35	TRUE	matrilin 3
ENSG00000106853	PTGR1	0.50280868	0.002081091	35	FALSE	prostaglandin reductase 1
ENSG00000104131	EIF3J	-0.502668309	0.002088072	35	FALSE	eukaryotic translation initiation factor 3 subunit J
ENSG00000139977	NAA30	-0.502106825	0.002116203	35	FALSE	N(alpha)-acetyltransferase 30, NatC catalytic subunit
ENSG00000164574	GALNT10	-0.501966454	0.002123287	35	FALSE	polypeptide N-acetylgalactosaminyltransferase 10
ENSG00000185164	NOMO2	-0.501545341	0.002144664	35	FALSE	NODAL modulator 2
ENSG00000118946	PCDH17	-0.500703116	0.002187983	35	FALSE	protocadherin 17
ENSG00000124275	MTRR	-0.466312237	0.004750009	35	TRUE	5-methyltetrahydrofolate-homocysteine methyltransferase reductase
ENSG00000010361	FUZ	0.498597552	0.002299642	35	FALSE	fuzzy planar cell polarity protein
ENSG00000164951	PDP1	-0.498457181	0.002307259	35	FALSE	pyruvate dehydrogenase phosphatase catalytic subunit 1
ENSG00000127399	LRRC61	0.497053471	0.002384655	35	FALSE	leucine rich repeat containing 61

ENSG00000224531	SMIM13	-0.496913101	0.002392518	35	FALSE	small integral membrane protein 13
ENSG00000133704	IPO8	-0.494947907	0.002504995	35	FALSE	importin 8
ENSG00000166225	FRS2	-0.494947907	0.002504995	35	FALSE	fibroblast growth factor receptor substrate 2
ENSG00000154380	ENAH	-0.46518927	0.004865419	35	TRUE	enabled homolog (Drosophila)
ENSG00000128585	MKLN1	-0.49382494	0.002571316	35	FALSE	muskelin 1
ENSG00000144810	COL8A1	-0.493544198	0.002588133	35	FALSE	collagen type VIII alpha 1 chain
ENSG00000164253	WDR41	-0.493123085	0.002613539	35	FALSE	WD repeat domain 41
ENSG00000189319	FAM53B	0.492982714	0.002622056	35	FALSE	family with sequence similarity 53 member B
ENSG00000180694	TMEM64	-0.459434062	0.005495614	35	TRUE	transmembrane protein 64
ENSG00000168116	KIAA1586	-0.492561602	0.002647751	35	FALSE	
ENSG00000181904	C5orf24	-0.491859747	0.002691064	35	FALSE	chromosome 5 open reading frame 24
ENSG00000175711	B3GNTL1	0.491859747	0.002691064	35	FALSE	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase-like 1
ENSG00000078140	UBE2K	-0.490456038	0.002779545	35	FALSE	ubiquitin conjugating enzyme E2 K
ENSG00000275023	MLLT6	0.490456038	0.002779545	35	FALSE	MLLT6, PHD finger domain containing
ENSG00000180801	ARSJ	-0.489894554	0.00281564	35	FALSE	arylsulfatase family member J
ENSG00000215717	TMEM167B	-0.489473441	0.002842979	35	FALSE	transmembrane protein 167B
ENSG00000106799	TGFBR1	-0.488771586	0.002889056	35	FALSE	transforming growth factor beta receptor 1
ENSG00000196792	STRN3	-0.488210103	0.002926385	35	FALSE	striatin 3
ENSG00000029725	RABEP1	-0.48778899	0.002954656	35	FALSE	rabaptin, RAB GTPase binding effector protein 1
ENSG00000174013	FBXO45	-0.487508248	0.002973635	35	FALSE	F-box protein 45
ENSG00000056586	RC3H2	-0.487227506	0.00299272	35	FALSE	ring finger and CCCH-type domains 2
ENSG00000012983	MAP4K5	-0.487087135	0.003002302	35	FALSE	mitogen-activated protein kinase kinase kinase kinase 5
ENSG00000134278	SPIRE1	-0.452976999	0.006285071	35	TRUE	spire type actin nucleation factor 1
ENSG00000105516	DBP	0.485964168	0.003079926	35	FALSE	D-box binding PAR bZIP transcription factor
ENSG00000165055	METTL2B	-0.485262313	0.003129321	35	FALSE	methyltransferase like 2B
ENSG00000188735	TMEM120B	0.484700829	0.003169332	35	FALSE	transmembrane protein 120B
ENSG00000180998	GPR137C	-0.484139346	0.003209786	35	FALSE	G protein-coupled receptor 137C
ENSG00000171045	TSNARE1	0.483156749	0.003281661	35	FALSE	t-SNARE domain containing 1
ENSG00000258289	CHURC1	-0.483156749	0.003281661	35	FALSE	churchill domain containing 1
ENSG00000115464	USP34	-0.483016378	0.003292042	35	FALSE	ubiquitin specific peptidase 34
ENSG00000163110	PDLIM5	-0.482454895	0.003333852	35	FALSE	PDZ and LIM domain 5
ENSG00000160570	DEDD2	0.481893411	0.003376122	35	FALSE	death effector domain containing 2
ENSG00000139438	FAM222A	-0.451292548	0.006506344	35	TRUE	family with sequence similarity 222 member A
ENSG00000122741	DCAF10	-0.481472298	0.003408129	35	FALSE	DDB1 and CUL4 associated factor 10
ENSG00000204262	COL5A2	-0.451011806	0.006543865	35	TRUE	collagen type V alpha 2 chain
ENSG00000143771	CNIH4	-0.449748467	0.006715012	35	TRUE	cornichon family AMPA receptor auxiliary protein 4
ENSG00000139192	TAPBPL	0.48020896	0.003505735	35	FALSE	TAP binding protein like
ENSG00000115419	GLS	-0.479366734	0.003572144	35	FALSE	glutaminase
ENSG00000204217	BMPR2	-0.445958452	0.007251656	35	TRUE	bone morphogenetic protein receptor type 2
ENSG00000158079	PTPDC1	-0.479085992	0.003594522	35	FALSE	protein tyrosine phosphatase domain containing 1

ENSG00000115602	IL1RL1	-0.444835485	0.00741754	35	TRUE	interleukin 1 receptor like 1
ENSG00000170892	TSEN34	0.478103396	0.003673803	35	FALSE	tRNA splicing endonuclease subunit 34
ENSG00000164086	DUSP7	-0.444414372	0.007480577	35	TRUE	dual specificity phosphatase 7
ENSG00000186350	RXRA	0.477682283	0.003708242	35	FALSE	retinoid X receptor alpha
ENSG00000265808	SEC22B	-0.477541912	0.003719783	35	FALSE	SEC22 homolog B, vesicle trafficking protein (gene/pseudogene)
ENSG00000187498	COL4A1	-0.476980428	0.003766261	35	FALSE	collagen type IV alpha 1 chain
ENSG00000089472	HEPH	-0.444274001	0.007501692	35	TRUE	hephaestin
ENSG00000198677	TTC37	-0.476418944	0.003813241	35	FALSE	tetratricopeptide repeat domain 37
ENSG00000164761	TNFRSF11B	-0.476418944	0.003813241	35	FALSE	TNF receptor superfamily member 11b
ENSG00000052723	SIKE1	-0.474734493	0.00395724	35	FALSE	suppressor of IKBKE 1
ENSG00000213347	MXD3	0.474594122	0.00396945	35	FALSE	MAX dimerization protein 3
ENSG00000026103	FAS	-0.474594122	0.00396945	35	FALSE	Fas cell surface death receptor
ENSG00000103184	SEC14L5	0.473892268	0.004030988	35	FALSE	SEC14 like lipid binding 5
ENSG00000123545	NDUFAF4	-0.473471155	0.004068306	35	FALSE	NADH:ubiquinone oxidoreductase complex assembly factor 4
ENSG00000172667	ZMAT3	-0.438659164	0.008389072	35	TRUE	zinc finger matrin-type 3
ENSG00000169504	CLIC4	-0.471646333	0.004233491	35	FALSE	chloride intracellular channel 4
ENSG00000134077	THUMPD3	-0.471505962	0.004246434	35	FALSE	THUMP domain containing 3
ENSG00000187676	B3GLCT	-0.471505962	0.004246434	35	FALSE	beta 3-glucosyltransferase
ENSG00000198682	PAPSS2	-0.438378422	0.008435695	35	TRUE	3'-phosphoadenosine 5'-phosphosulfate synthase 2
ENSG00000154813	DPH3	-0.470944478	0.00429855	35	FALSE	diphthamide biosynthesis 3
ENSG00000175104	TRAF6	-0.470944478	0.00429855	35	FALSE	TNF receptor associated factor 6
ENSG00000117751	PPP1R8	-0.469961882	0.004391083	35	FALSE	protein phosphatase 1 regulatory subunit 8
ENSG00000157036	EXOG	-0.469540769	0.004431264	35	FALSE	exo/endonuclease G
ENSG00000142856	ITGB3BP	0.469260027	0.004458228	35	FALSE	integrin subunit beta 3 binding protein
ENSG00000153956	CACNA2D1	-0.436132487	0.008816696	35	TRUE	calcium voltage-gated channel auxiliary subunit alpha2delta 1
ENSG00000015171	ZMYND11	-0.467575576	0.004623003	35	FALSE	zinc finger MYND-type containing 11
ENSG00000114279	FGF12	-0.467435205	0.004636968	35	FALSE	fibroblast growth factor 12
ENSG00000091136	LAMB1	-0.467294834	0.00465097	35	FALSE	laminin subunit beta 1
ENSG00000088812	ATRNL1	-0.466873721	0.004693195	35	FALSE	attractin
ENSG00000139324	TMTC3	-0.466592979	0.004721528	35	FALSE	transmembrane and tetratricopeptide repeat containing 3
ENSG00000003436	TFPI	-0.430236908	0.009887226	35	TRUE	tissue factor pathway inhibitor
ENSG00000129292	PHF20L1	-0.466312237	0.004750009	35	FALSE	PHD finger protein 20-like 1
ENSG00000065150	IPO5	-0.465891124	0.004793008	35	FALSE	importin 5
ENSG00000151414	NEK7	-0.465470012	0.004836342	35	FALSE	NIMA related kinase 7
ENSG00000112210	RAB23	-0.465329641	0.004850862	35	FALSE	RAB23, member RAS oncogene family
ENSG00000117152	RGS4	-0.428692827	0.010185182	35	TRUE	regulator of G-protein signaling 4
ENSG00000198089	SFI1	0.464908528	0.004894646	35	FALSE	SFI1 centrin binding protein
ENSG00000177169	ULK1	0.464627786	0.004924025	35	FALSE	unc-51 like autophagy activating kinase 1
ENSG00000179528	LBX2	0.464487415	0.004938771	35	FALSE	ladybird homeobox 2
ENSG00000108854	SMURF2	-0.464487415	0.004938771	35	FALSE	SMAD specific E3 ubiquitin protein ligase 2

ENSG00000185215	TNFAIP2	0.464066302	0.004983239	35	FALSE	TNF alpha induced protein 2
ENSG00000101928	MOSPD1	-0.464066302	0.004983239	35	FALSE	motile sperm domain containing 1
ENSG00000152952	PLOD2	-0.463785561	0.005013075	35	FALSE	procollagen-lysine,2-oxoglutarate 5-dioxygenase 2
ENSG00000153162	BMP6	-0.46364519	0.005028051	35	FALSE	bone morphogenetic protein 6
ENSG00000116962	NID1	-0.463504819	0.005043065	35	FALSE	nidogen 1
ENSG00000110057	UNC93B1	0.461679997	0.005241796	35	FALSE	unc-93 homolog B1 (C. elegans)
ENSG00000118200	CAMSAP2	-0.460837771	0.005335769	35	FALSE	calmodulin regulated spectrin associated protein family member 2
ENSG00000213949	ITGA1	-0.460837771	0.005335769	35	FALSE	integrin subunit alpha 1
ENSG00000167635	ZNF146	-0.460416658	0.005383296	35	FALSE	zinc finger protein 146
ENSG00000177453	NIM1K	0.429254311	0.010075964	35	TRUE	NIM1 serine/threonine protein kinase
ENSG00000013375	PGM3	-0.45915332	0.005528072	35	FALSE	phosphoglucomutase 3
ENSG00000184304	PRKD1	-0.458872578	0.005560696	35	FALSE	protein kinase D1
ENSG00000035403	VCL	-0.458591836	0.005593484	35	FALSE	vinculin
ENSG00000163378	EOGT	-0.458451465	0.005609941	35	FALSE	EGF domain specific O-linked N-acetylglucosamine transferase
ENSG00000150093	ITGB1	-0.458030352	0.005659561	35	FALSE	integrin subunit beta 1
ENSG00000255529	POLR2M	-0.458030352	0.005659561	35	FALSE	RNA polymerase II subunit M
ENSG00000167037	SGSM1	0.458030352	0.005659561	35	FALSE	small G protein signaling modulator 1
ENSG00000159761	C16orf86	0.45774961	0.00569285	35	FALSE	chromosome 16 open reading frame 86
ENSG00000183784	C9orf66	0.457047756	0.005776811	35	FALSE	chromosome 9 open reading frame 66
ENSG00000120451	SNX19	-0.456767014	0.005810692	35	FALSE	sorting nexin 19
ENSG00000146828	SLC12A9	0.456626643	0.005827696	35	FALSE	solute carrier family 12 member 9
ENSG00000163512	AZI2	-0.456345901	0.005861833	35	FALSE	5-azacytidine induced 2
ENSG00000070759	TESK2	0.456065159	0.005896142	35	FALSE	testis-specific kinase 2
ENSG00000198836	OPA1	-0.455784417	0.005930623	35	FALSE	OPA1, mitochondrial dynamin like GTPase
ENSG00000138448	ITGAV	-0.455082563	0.006017585	35	FALSE	integrin subunit alpha V
ENSG00000079387	SEN1	-0.455082563	0.006017585	35	FALSE	SUMO1/sentrin specific peptidase 1
ENSG00000167842	MIS12	-0.455082563	0.006017585	35	FALSE	MIS12, kinetochore complex component
ENSG00000005379	TSPOAP1	0.454380708	0.006105639	35	FALSE	TSPO associated protein 1
ENSG00000205060	SLC35B4	-0.453959595	0.006159001	35	FALSE	solute carrier family 35 member B4
ENSG00000135341	MAP3K7	-0.453819224	0.006176877	35	FALSE	mitogen-activated protein kinase kinase kinase 7
ENSG00000161996	WDR90	0.453398112	0.006230772	35	FALSE	WD repeat domain 90
ENSG00000107611	CUBN	0.431780988	0.009596705	35	TRUE	cubilin
ENSG00000169981	ZNF35	-0.452696257	0.006321495	35	FALSE	zinc finger protein 35
ENSG00000063587	ZNF275	-0.452555886	0.006339775	35	FALSE	zinc finger protein 275
ENSG00000122786	CALD1	-0.452275144	0.006376471	35	FALSE	caldesmon 1
ENSG00000162623	TYW3	-0.452134773	0.006394887	35	FALSE	tRNA-yW synthesizing protein 3 homolog
ENSG00000104415	WISP1	-0.452134773	0.006394887	35	FALSE	WNT1 inducible signaling pathway protein 1
ENSG00000173442	EHBP1L1	0.451854031	0.006431856	35	FALSE	EH domain binding protein 1 like 1
ENSG00000188004	C1orf204	0.451432918	0.006487653	35	FALSE	chromosome 1 open reading frame 204
ENSG00000170242	USP47	-0.451432918	0.006487653	35	FALSE	ubiquitin specific peptidase 47

ENSG00000169018	FEM1B	-0.451432918	0.006487653	35	FALSE	fem-1 homolog B
ENSG00000129355	CDKN2D	0.437536196	0.008576892	35	TRUE	cyclin dependent kinase inhibitor 2D
ENSG00000214575	CPEB1	0.438518793	0.008412356	35	TRUE	cytoplasmic polyadenylation element binding protein 1
ENSG00000064102	INTS13	-0.450871435	0.006562695	35	FALSE	
ENSG00000184313	MROH7	0.44118584	0.007979259	35	TRUE	maestro heat like repeat family member 7
ENSG00000105750	ZNF85	-0.449608096	0.006734263	35	FALSE	zinc finger protein 85
ENSG00000113328	CCNG1	-0.447783274	0.006988862	35	FALSE	cyclin G1
ENSG00000186198	SLC51B	0.443572146	0.007608027	35	TRUE	solute carrier family 51 beta subunit
ENSG00000113083	LOX	-0.44708142	0.007088955	35	FALSE	lysyl oxidase
ENSG00000122641	INHBA	-0.446941049	0.00710912	35	FALSE	inhibin beta A subunit
ENSG00000158517	NCF1	0.446800678	0.007129334	35	FALSE	neutrophil cytosolic factor 1
ENSG00000198825	INPP5F	-0.446800678	0.007129334	35	FALSE	inositol polyphosphate-5-phosphatase F
ENSG00000173692	PSMD1	-0.446660307	0.007149598	35	FALSE	proteasome 26S subunit, non-ATPase 1
ENSG00000137218	FRS3	0.446519936	0.00716991	35	FALSE	fibroblast growth factor receptor substrate 3
ENSG00000095397	WHRN	0.44722179	0.007068839	35	TRUE	whirlin
ENSG00000105849	TWISTNB	-0.445818081	0.007272216	35	FALSE	TWIST neighbor
ENSG00000104643	MTMR9	-0.445537339	0.007313486	35	FALSE	myotubularin related protein 9
ENSG00000004777	ARHGAP33	0.46827743	0.004553719	35	TRUE	Rho GTPase activating protein 33
ENSG00000162931	TRIM17	0.47122522	0.004272423	35	TRUE	tripartite motif containing 17
ENSG00000129194	SOX15	0.476840057	0.003777959	35	TRUE	SRY-box 15
ENSG00000211460	TSN	-0.44413363	0.007522856	35	FALSE	translin
ENSG00000168778	TCTN2	0.443993259	0.007544072	35	FALSE	tectonic family member 2
ENSG00000162694	EXTL2	-0.443712517	0.007586658	35	FALSE	exostosin like glycosyltransferase 2
ENSG00000136937	NCBP1	-0.443712517	0.007586658	35	FALSE	nuclear cap binding protein subunit 1
ENSG00000258130	AC106782.1	0.478524508	0.003639642	35	TRUE	
ENSG00000087095	NLK	-0.443572146	0.007608027	35	FALSE	nemo like kinase
ENSG00000122965	RBM19	0.443291404	0.007650921	35	FALSE	RNA binding motif protein 19
ENSG00000101844	ATG4A	-0.441747324	0.007890547	35	FALSE	autophagy related 4A cysteine peptidase
ENSG00000006747	SCIN	0.48020896	0.003505735	35	TRUE	scinderin
ENSG00000160131	VMA21	-0.441045469	0.008001569	35	FALSE	VMA21 vacuolar H <sup>+</sup> -ATPase homolog (S. cerevisiae)
ENSG00000267221	C17orf113	0.440905099	0.008023933	35	FALSE	
ENSG00000132478	UNK	0.440483986	0.008091344	35	FALSE	unkempt family zinc finger
ENSG00000134987	WDR36	-0.440343615	0.008113921	35	FALSE	WD repeat domain 36
ENSG00000253710	ALG11	-0.440203244	0.008136553	35	FALSE	ALG11, alpha-1,2-mannosyltransferase
ENSG00000167074	TEF	0.440203244	0.008136553	35	FALSE	TEF, PAR bZIP transcription factor
ENSG00000078043	PIAS2	-0.43964176	0.008227617	35	FALSE	protein inhibitor of activated STAT 2
ENSG00000113621	TXNDC15	-0.439220647	0.008296484	35	FALSE	thioredoxin domain containing 15
ENSG00000198301	SDAD1	-0.439080276	0.008319549	35	FALSE	SDA1 domain containing 1
ENSG00000153250	RBMS1	-0.438939905	0.008342669	35	FALSE	RNA binding motif single stranded interacting protein 1
ENSG00000198417	MT1F	0.487087135	0.003002302	35	TRUE	metallothionein 1F

ENSG00000073712	FERMT2	-0.438518793	0.008412356	35	FALSE	fermitin family member 2
ENSG00000135749	PCNX2	0.492561602	0.002647751	35	TRUE	pecanex homolog 2 (Drosophila)
ENSG00000163637	PRICKLE2	-0.438378422	0.008435695	35	FALSE	prickle planar cell polarity protein 2
ENSG00000184828	ZBTB7C	0.498737923	0.002292046	35	TRUE	zinc finger and BTB domain containing 7C
ENSG00000134852	CLOCK	-0.43809768	0.008482539	35	FALSE	clock circadian regulator
ENSG00000117475	BLZF1	-0.437816938	0.008529604	35	FALSE	basic leucine zipper nuclear factor 1
ENSG00000108861	DUSP3	-0.437816938	0.008529604	35	FALSE	dual specificity phosphatase 3
ENSG00000144535	DIS3L2	0.437536196	0.008576892	35	FALSE	DIS3 like 3'-5' exoribonuclease 2
ENSG00000149260	CAPN5	0.506458324	0.001906594	35	TRUE	calpain 5
ENSG00000163320	CGGBP1	-0.436272858	0.008792462	35	FALSE	CGG triplet repeat binding protein 1
ENSG00000129219	PLD2	0.519232079	0.001392505	35	TRUE	phospholipase D2
ENSG00000014216	CAPN1	0.435992116	0.008840988	35	FALSE	calpain 1
ENSG00000196968	FUT11	-0.435851745	0.008865336	35	FALSE	fucosyltransferase 11
ENSG00000115839	RAB3GAP1	-0.435290261	0.008963302	35	FALSE	RAB3 GTPase activating protein catalytic subunit 1
ENSG00000152620	NADK2	-0.435009519	0.009012629	35	FALSE	NAD kinase 2, mitochondrial
ENSG00000070367	EXOC5	-0.434588407	0.009087053	35	FALSE	exocyst complex component 5
ENSG00000114999	TTL	-0.434448036	0.009111977	35	FALSE	tubulin tyrosine ligase
ENSG00000196437	ZNF569	-0.434026923	0.009187098	35	FALSE	zinc finger protein 569
ENSG00000058272	PPP1R12A	-0.43360581	0.009262746	35	FALSE	protein phosphatase 1 regulatory subunit 12A
ENSG00000077147	TM9SF3	-0.432903955	0.009390002	35	FALSE	transmembrane 9 superfamily member 3
ENSG00000136738	STAM	-0.432202101	0.009518743	35	FALSE	signal transducing adaptor molecule
ENSG00000107669	ATE1	-0.432202101	0.009518743	35	FALSE	arginyltransferase 1
ENSG00000029364	SLC39A9	-0.432202101	0.009518743	35	FALSE	solute carrier family 39 member 9
ENSG00000168385	SEPT2	-0.43206173	0.00954467	35	FALSE	septin 2
ENSG00000132463	GRSF1	-0.43206173	0.00954467	35	FALSE	G-rich RNA sequence binding factor 1
ENSG00000112305	SMAP1	-0.43206173	0.00954467	35	FALSE	small ArfGAP 1
ENSG00000197584	KCNMB2	0.532567317	0.000989844	35	TRUE	potassium calcium-activated channel subfamily M regulatory beta subunit 2
ENSG00000182318	ZSCAN22	-0.430938762	0.009754258	35	FALSE	zinc finger and SCAN domain containing 22
ENSG00000187134	AKR1C1	0.43051765	0.009833855	35	FALSE	aldo-keto reductase family 1 member C1
ENSG00000135722	FBXL8	0.430377279	0.00986051	35	FALSE	F-box and leucine rich repeat protein 8
ENSG00000198910	L1CAM	0.543375879	0.000742823	35	TRUE	L1 cell adhesion molecule
ENSG00000172830	SSH3	0.429675424	0.009994705	35	FALSE	slingshot protein phosphatase 3
ENSG00000188878	FBF1	0.429394682	0.010048816	35	FALSE	Fas binding factor 1
ENSG00000185100	ADSSL1	0.575661194	0.000296703	35	TRUE	adenylosuccinate synthase like 1
ENSG00000262246	CORO7	0.42911394	0.010103175	35	FALSE	coronin 7
ENSG00000158286	RNF207	0.621001005	6.87476E-05	35	TRUE	ring finger protein 207
ENSG00000186272	ZNF17	-0.428692827	0.010185182	35	FALSE	zinc finger protein 17