

Supplementary Table 9. Predicted targets of hsa-miR-181a by TargetScan 6.2.

Target	Gene ID	Gene name	Total context+ score	Aggregate P_{CT}	Cancer gene
ABL2	<u>NM_001136000</u>	V-abl Abelson murine leukemia viral oncogene homolog 2	> -0.03	0.31	√
ACAN	<u>NM_001135</u>	Aggrecan	-0.09	0.12	
ACCN2	<u>NM_001095</u>	Amiloride-sensitive cation channel 2, neuronal	> -0.01	0.26	
ACER3	<u>NM_018367</u>	Alkaline ceramidase 3	-0.04	<0.1	
ACVR2A	<u>NM_001616</u>	Activin A receptor, type IIA	-0.16	0.64	
ADAMTS1	<u>NM_006988</u>	ADAM metalloproteinase with thrombospondin type 1 motif, 1	> -0.02	0.42	
ADAMTS18	<u>NM_199355</u>	ADAM metalloproteinase with thrombospondin type 1 motif, 18	-0.17	0.64	
ADAMTS5	<u>NM_007038</u>	ADAM metalloproteinase with thrombospondin type 1 motif, 5	-0.24	0.59	
ADAMTSL1	<u>NM_001040272</u>	ADAMTS-like 1	-0.26	0.72	
ADARB1	<u>NM_001112</u>	Adenosine deaminase, RNA-specific, B1	-0.28	0.62	
AFAP1	<u>NM_001134647</u>	Actin filament associated protein 1	-0.09	0.61	
AFTPH	<u>NM_001002243</u>	Aftiphilin	-0.16	0.49	
AK3	<u>NM_001199852</u>	Adenylate kinase 3	> -0.02	0.6	
AKAP7	<u>NM_004842</u>	A kinase (PRKA) anchor protein 7	-0.16	0.37	
ANAPC16	<u>NM_001242546</u>	Anaphase promoting complex subunit 16	-0.1	0.66	
ANK1	<u>NM_000037</u>	Ankyrin 1, erythrocytic	> -0.03	0.46	
ANKRD12	<u>NM_001083625</u>	Ankyrin repeat domain 12	> -0.03	0.31	

ANKRD33B	NM_001164440	Ankyrin repeat domain 33B	-0.17	0.35	
ANKRD43	NM_175873	Ankyrin repeat domain 43	-0.16	0.65	
ANKRD44	NM_001195144	Ankyrin repeat domain 44	-0.17	0.49	
ANKRD52	NM_173595	Ankyrin repeat domain 52	> -0.05	0.7	
AP1S3	NM_001039569	Adaptor-related protein complex 1, sigma 3 subunit	-0.26	0.76	
APBA1	NM_001163	Amyloid beta (A4) precursor protein-binding, family A, member 1	-0.13	0.81	
APLP2	NM_001142276	Amyloid beta (A4) precursor-like protein 2	-0.05	0.55	
APOO	NM_024122	Apolipoprotein O	-0.32	0.41	
ARID2	NM_152641	AT rich interactive domain 2 (ARID, RFX-like)	-0.07	0.55	√
ARL3	NM_004311	ADP-ribosylation factor-like 3	> -0.03	0.51	
ARRDC3	NM_020801	Arrestin domain containing 3	> -0.02	0.47	
ATF7	NM_001130059	Activating transcription factor 7	> -0.01	0.26	
ATG2B	NM_018036	ATG2 autophagy related 2 homolog B (S. Cerevisiae)	> -0.02	0.61	
ATG7	NM_001136031	ATG7 autophagy related 7 homolog (S. Cerevisiae)	-0.03	0.61	
ATP11A	NM_015205	ATPase, class VI, type 11A	> -0.04	0.79	
ATP2B3	NM_001001344	ATPase, Ca ⁺⁺ transporting, plasma membrane 3	-0.11	0.25	√
ATP8B2	NM_020452	ATPase, class I, type 8B, member 2	> -0.01	0.53	
ATXN1	NM_000332	Ataxin 1	> -0.06	0.88	√
ATXN7	NM_000333	Ataxin 7	-0.19	0.77	
B4GALT1	NM_001497	UDP-Gal:betaglcnac beta 1,4- galactosyltransferase, polypeptide 1	-0.12	0.69	
BAG4	NM_001204878	BCL2-associated athanogene 4	-0.27	0.64	
BAI3	NM_001704	Brain-specific angiogenesis inhibitor 3	-0.19	0.68	
BCL2	NM_000633	B-cell CLL/lymphoma 2	> -0.04	0.83	√

BCL9	NM_004326	B-cell CLL/lymphoma 9	-0.03	0.32	√
BCR	NM_004327	Breakpoint cluster region	> -0.01	0.34	
BHLHE40	NM_003670	Basic helix-loop-helix family, member e40	-0.3	0.77	
BMF	NM_001003940	Bcl2 modifying factor	-0.01	0.53	
BNC2	NM_017637	Basonuclin 2	> -0.03	0.39	
BRD1	NM_014577	Bromodomain containing 1	-0.22	0.47	
BRWD1	NM_033656	Bromodomain and WD repeat domain containing 1	-0.32	0.9	
BTBD3	NM_014962	BTB (POZ) domain containing 3	-0.39	0.95	
C10orf46	NM_153810	Chromosome 10 open reading frame 46	N/A	0.73	
C11orf30	NM_020193	Chromosome 11 open reading frame 30	-0.15	0.42	
C11orf75	NM_020179	Chromosome 11 open reading frame 75	-0.04	0.61	
C12orf68	NM_001013635	Chromosome 12 open reading frame 68	> -0.02	0.36	
C13orf23	NM_025138	Chromosome 13 open reading frame 23	-0.17	0.61	
C13orf30	NM_182508	Chromosome 13 open reading frame 30	> -0.02	0.63	
C14orf43	NM_001043318	Chromosome 14 open reading frame 43	-0.23	0.76	
C17orf63	NM_001077498	Chromosome 17 open reading frame 63	> -0.03	0.65	
C1GALT1	NM_020156	Core 1 synthase, glycoprotein-N-acetylgalactosamine 3-beta-galactosyltransferase, 1	-0.12	0.76	
C3orf43	NM_001077657	Chromosome 3 open reading frame 43	-0.16	0.22	
C3orf62	NM_198562	Chromosome 3 open reading frame 62	-0.18	0.38	
C6orf192	NM_052831	Chromosome 6 open reading frame 192	-0.15	0.46	
C6orf35	NM_018452	Chromosome 6 open reading frame 35	-0.3	0.8	
CACNA2D2	NM_001005505	Calcium channel, voltage-dependent, alpha 2/delta subunit 2	> -0.02	0.76	
CALR	NM_004343	Calreticulin	-0.07	0.34	√
CAMSAP1L1	NM_203459	Calmodulin regulated spectrin-associated protein 1-like 1	-0.18	0.34	
CAMTA2	NM_001171166	Calmodulin binding transcription activator 2	-0.1	0.33	

CAPRN1	NM_203364	Cell cycle associated protein 1	-0.3	0.63	
CARM1	NM_199141	Coactivator-associated arginine methyltransferase 1	-0.12	0.67	
CASP10	NM_001206524	Caspase 10, apoptosis-related cysteine peptidase	> -0.03	0.25	
CBFA2T3	NM_005187	Core-binding factor, runt domain, alpha subunit 2; translocated to, 3	-0.24	0.6	√
CBLB	NM_170662	Cas-Br-M (murine) ecotropic retroviral transforming sequence b	-0.24	0.33	√
CBLL1	NM_024814	Cas-Br-M (murine) ecotropic retroviral transforming sequence-like 1	-0.19	0.51	
CBX4	NM_003655	Chromobox homolog 4	-0.29	0.69	
CBX5	NM_001127321	Chromobox homolog 5	> -0.03	0.7	
CCDC117	NM_173510	Coiled-coil domain containing 117	> -0.03	0.56	
CCDC141	NM_173648	Coiled-coil domain containing 141	> -0.02	0.48	
CCDC17	NM_001114938	Coiled-coil domain containing 17	N/A	0.35	
CCDC6	NM_005436	Coiled-coil domain containing 6	> -0.03	0.62	√
CCDC64	NM_207311	Coiled-coil domain containing 64	> -0.01	0.58	
CCDC90A	NM_001031713	Coiled-coil domain containing 90A	> -0.03	< 0.1	
CCL8	NM_005623	Chemokine (C-C motif) ligand 8	-0.23	<0.1	
CCNG1	NM_004060	Cyclin G1	-0.17	<0.1	
CCNJ	NM_001134375	Cyclin J	-0.16	0.69	
CCNK	NM_001099402	Cyclin K	-0.23	0.72	
CCNT2	NM_001241	Cyclin T2	-0.22	0.1	
CD4	NM_000616	CD4 molecule	-0.17	0.55	
CD69	NM_001781	CD69 molecule	-0.15	0.41	
CDC27	NM_001114091	Cell division cycle 27 homolog (S. Cerevisiae)	-0.04	0.34	

CDC73	<u>NM_024529</u>	Cell division cycle 73, Paf1/RNA polymerase II complex component, homolog (<i>S. Cerevisiae</i>)	-0.22	0.4	√
CDH13	<u>NM_001220488</u>	Cadherin 13, H-cadherin (heart)	-0.11	0.47	
CDK8	<u>NM_001260</u>	Cyclin-dependent kinase 8	-0.07	0.34	
CDKL2	<u>NM_003948</u>	Cyclin-dependent kinase-like 2 (CDC2-related kinase)	-0.14	0.66	
CDON	<u>NM_016952</u>	Cdon homolog (mouse)	-0.34	0.81	
CDYL	<u>NM_001143970</u>	Chromodomain protein, Y-like	-0.24	0.32	
CEBPA	<u>NM_004364</u>	CCAAT/enhancer binding protein (C/EBP), alpha	> -0.02	0.49	√
CELSR3	<u>NM_001407</u>	Cadherin, EGF LAG seven-pass G-type receptor 3 (flamingo homolog, <i>Drosophila</i>)	> -0.01	0.41	
CEP350	<u>NM_014810</u>	Centrosomal protein 350kda	> -0.03	0.33	
CHD1	<u>NM_001270</u>	Chromodomain helicase DNA binding protein 1	-0.05	0.34	
CHD7	<u>NM_017780</u>	Chromodomain helicase DNA binding protein 7	-0.05	0.69	
CHD9	<u>NM_025134</u>	Chromodomain helicase DNA binding protein 9	-0.11	0.54	
CHIC1	<u>NM_001039840</u>	Cysteine-rich hydrophobic domain 1	-0.09	0.44	
CHMP1B	<u>NM_020412</u>	Chromatin modifying protein 1B	-0.31	0.59	
CLCC1	<u>NM_001048210</u>	Chloride channel CLIC-like 1	-0.1	0.41	
CLIP1	<u>NM_002956</u>	CAP-GLY domain containing linker protein 1	-0.33	0.49	
CLMN	<u>NM_024734</u>	Calmin (calponin-like, transmembrane)	-0.33	0.78	
CLVS1	<u>NM_173519</u>	Clavesin 1	-0.43	0.59	
CNKSR2	<u>NM_001168647</u>	Connector enhancer of kinase suppressor of Ras 2	-0.06	0.65	
CNKSR3	<u>NM_173515</u>	CNKSR family member 3	-0.27	0.47	
CNOT6L	<u>NM_144571</u>	CCR4-NOT transcription complex, subunit 6-like	> -0.05	0.44	
CNR1	<u>NM_001160226</u>	Cannabinoid receptor 1 (brain)	-0.08	0.53	
CNTN4	<u>NM_001206955</u>	Contactin 4	-0.16	<0.1	
CNTNAP2	<u>NM_014141</u>	Contactin associated protein-like 2	-0.16	0.81	

COL5A1	NM_000093	Collagen, type V, alpha 1	> -0.02	0.37	
COMM6	NM_203495	COMM domain containing 6	-0.1	0.55	
COPS2	NM_001143887	COP9 constitutive photomorphogenic homolog subunit 2 (Arabidopsis)	-0.13	0.83	
CPD	NM_001199775	Carboxypeptidase D	> -0.05	0.67	
CPT1A	NM_001876	Carnitine palmitoyltransferase 1A (liver)	-0.23	0.29	
CREBL2	NM_001310	Camp responsive element binding protein-like 2	> -0.04	0.49	√
CRIM1	NM_016441	Cysteine rich transmembrane BMP regulator 1 (chordin-like)	> -0.03	0.6	
CRISPLD1	NM_031461	Cysteine-rich secretory protein LCCL domain containing 1	-0.13	0.54	
CSNK1G3	NM_001031812	Casein kinase 1, gamma 3	-0.1	0.58	
CSRNP3	NM_001172173	Cysteine-serine-rich nuclear protein 3	> -0.03	0.54	
CTDSPL	NM_001008392	CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase-like	-0.37	0.95	
CTIF	NM_001142397	CBP80/20-dependent translation initiation factor	> -0.03	0.37	
CTTNBP2NL	NM_018704	CTTNBP2 N-terminal like	-0.22	0.96	
CUL3	NM_003590	Cullin 3	-0.06	0.89	
CUL4A	NM_001008895	Cullin 4A	-0.04	0.25	
CXADR	NM_001207063	Coxsackie virus and adenovirus receptor	> -0.04	0.7	
CYLD	NM_001042355	Cylindromatosis (turban tumor syndrome)	-0.06	0.57	√
DCP1A	NM_018403	DCP1 decapping enzyme homolog A (S. Cerevisiae)	> -0.01	0.26	
DCP2	NM_001242377	DCP2 decapping enzyme homolog (S. Cerevisiae)	> -0.01	0.28	
DDIT4	NM_019058	DNA-damage-inducible transcript 4	-0.18	0.62	

DDX3X	NM_001193416	DEAD (Asp-Glu-Ala-Asp) box polypeptide 3, X-linked	-0.34	0.98	
DDX3Y	NM_001122665	DEAD (Asp-Glu-Ala-Asp) box polypeptide 3, Y-linked	-0.36	0.66	
DEPTOR	NM_022783	DEP domain containing MTOR-interacting protein	-0.24	0.64	
DERL1	NM_001134671	Der1-like domain family, member 1	-0.21	0.69	
DGCR2	NM_001173533	Digeorge syndrome critical region gene 2	> -0.02	0.65	
DIP2A	NM_001146116	DIP2 disco-interacting protein 2 homolog A (Drosophila)	> -0.01	0.31	
DIP2B	NM_173602	DIP2 disco-interacting protein 2 homolog B (Drosophila)	-0.16	0.73	
DIP2C	NM_014974	DIP2 disco-interacting protein 2 homolog C (Drosophila)	-0.1	0.61	
DLG2	NM_001142699	Discs, large homolog 2 (Drosophila)	-0.07	0.59	
DLGAP2	NM_004745	Discs, large (Drosophila) homolog-associated protein 2	-0.12	0.93	
DMXL2	NM_001174116	Dmx-like 2	-0.16	0.85	
DNAJA4	NM_001130182	Dnaj (Hsp40) homolog, subfamily A, member 4	-0.26	0.47	
DNAL1	NM_001201366	Dynein, axonemal, light chain 1	-0.07	0.72	
DOCK7	NM_033407	Dedicator of cytokinesis 7	-0.12	0.65	
DTNA	NM_001198939	Dystrobrevin, alpha	> -0.02	0.44	
DUSP5	NM_004419	Dual specificity phosphatase 5	-0.1	0.64	
DYRK2	NM_003583	Dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 2	-0.1	0.65	
EDAR	NM_022336	Ectodysplasin A receptor	> -0.01	0.31	
EGR2	NM_000399	Early growth response 2	-0.07	0.32	
EGR3	NM_001199880	Early growth response 3	> -0.03	0.71	
EIF4A2	NM_001967	Eukaryotic translation initiation factor 4A2	-0.23	0.37	√

ELAVL4	NM_001144774	ELAV (embryonic lethal, abnormal vision, Drosophila)-like 4 (Hu antigen D)	-0.14	0.67	
EML1	NM_001008707	Echinoderm microtubule associated protein like 1	> -0.01	0.5	
EN1	NM_001426	Engrailed homeobox 1	-0.1	0.49	
EN2	NM_001427	Engrailed homeobox 2	-0.2	0.8	
ENAH	NM_001008493	Enabled homolog (Drosophila)	> -0.05	0.95	
ENOX2	NM_006375	Ecto-NOX disulfide-thiol exchanger 2	> -0.03	0.67	
EPB41	NM_001166005	Erythrocyte membrane protein band 4.1 (elliptocytosis 1, RH-linked)	> -0.03	0.78	
EPB41L3	NM_012307	Erythrocyte membrane protein band 4.1-like 3	-0.21	0.36	
EPB41L4B	NM_019114	Erythrocyte membrane protein band 4.1 like 4B	> -0.03	0.45	
EPB49	NM_001114135	Erythrocyte membrane protein band 4.9 (dematin)	-0.04	0.49	
EPC2	NM_015630	Enhancer of polycomb homolog 2 (Drosophila)	-0.23	0.53	
EPHA5	NM_004439	EPH receptor A5	-0.12	0.3	
ERG	NM_001136154	V-ets erythroblastosis virus E26 oncogene homolog (avian)	> -0.03	0.59	√
ERMN	NM_001009959	Ermin, ERM-like protein	> -0.03	0.15	
ESR1	NM_000125	Estrogen receptor 1	> -0.03	0.71	
ETNK1	NM_018638	Ethanolamine kinase 1	-0.14	0.64	
ETS1	NM_001143820	V-ets erythroblastosis virus E26 oncogene homolog 1 (avian)	> -0.09	0.67	
EVI2A	NM_001003927	Ecotropic viral integration site 2A	-0.19	0.31	
EYA3	NM_001990	Eyes absent homolog 3 (Drosophila)	> -0.02	0.58	
FAM105B	NM_138348	Family with sequence similarity 105, member B	> -0.10	<0.1	
FAM122B	NM_001166599	Family with sequence similarity 122B	> -0.04	<0.1	
FAM135A	NM_001105531	Family with sequence similarity 135, member A	-0.11	0.32	

FAM160A2	<u>NM_001098794</u>	Family with sequence similarity 160, member A2	-0.2	0.44	
FAM171A1	<u>NM_001010924</u>	Family with sequence similarity 171, member A1	-0.09	0.32	
FAM179B	<u>NM_015091</u>	Family with sequence similarity 179, member B	-0.2	<0.1	
FAM19A2	<u>NM_178539</u>	Family with sequence similarity 19 (chemokine (C-C motif)-like), member A2	-0.06	0.35	
FAM49A	<u>NM_030797</u>	Family with sequence similarity 49, member A	> -0.02	0.57	
FBXO33	<u>NM_203301</u>	F-box protein 33	> -0.05	0.54	
FBXO45	<u>NM_001105573</u>	F-box protein 45	-0.11	0.18	
FGD4	<u>NM_139241</u>	FYVE, rhogef and PH domain containing 4	-0.34	0.81	
FGFR3	<u>NM_000142</u>	Fibroblast growth factor receptor 3	> -0.02	0.42	√
FIGNL2	<u>NM_001013690</u>	Fidgetin-like 2	> -0.05	0.76	
FLT1	<u>NM_002019</u>	Fms-related tyrosine kinase 1 (vascular endothelial growth factor/vascular permeability factor receptor)	-0.39	0.5	
FNBP4	<u>NM_015308</u>	Formin binding protein 4	-0.22	<0.1	
FOXK1	<u>NM_001037165</u>	Forkhead box K1	-0.15	0.81	
FRYL	<u>NM_015030</u>	FRY-like	-0.03	0.41	
FUZ	<u>NM_001171937</u>	Fuzzy homolog (Drosophila)	-0.02	0.29	
G3BP2	<u>NM_012297</u>	Gtpase activating protein (SH3 domain) binding protein 2	-0.19	0.63	
GABRA1	<u>NM_000806</u>	Gamma-aminobutyric acid (GABA) A receptor, alpha 1	-0.24	0.87	
GABRA4	<u>NM_000809</u>	Gamma-aminobutyric acid (GABA) A receptor, alpha 4	-0.1	0.77	
GATC	<u>NM_176818</u>	Glutamyl-trna(Gln) amidotransferase, subunit C homolog (bacterial)	> -0.01	0.63	
GCC2	<u>NM_181453</u>	GRIP and coiled-coil domain containing 2	-0.2	0.78	
GIGYF1	<u>NM_022574</u>	GRB10 interacting GYF protein 1	-0.09	0.93	
GLI2	<u>NM_005270</u>	GLI family zinc finger 2	> -0.01	0.29	
GNAO1	<u>NM_020988</u>	Guanine nucleotide binding protein (G protein), alpha activating activity polypeptide O	-0.06	0.31	

GPD2	<u>NM_000408</u>	Glycerol-3-phosphate dehydrogenase 2 (mitochondrial)	-0.32	0.35	
GPR26	<u>NM_153442</u>	G protein-coupled receptor 26	-0.12	0.35	
GRB10	<u>NM_001001549</u>	Growth factor receptor-bound protein 10	-0.16	0.72	
GRIA2	<u>NM_000826</u>	Glutamate receptor, ionotropic, AMPA 2	-0.09	0.68	
GRID1	<u>NM_017551</u>	Glutamate receptor, ionotropic, delta 1	-0.06	0.55	
GRIK2	<u>NM_001166247</u>	Glutamate receptor, ionotropic, kainate 2	-0.04	0.63	
GRIK3	<u>NM_000831</u>	Glutamate receptor, ionotropic, kainate 3	> -0.03	0.51	
GRM1	<u>NM_001114329</u>	Glutamate receptor, metabotropic 1	-0.13	0.76	
GXYLT1	<u>NM_001099650</u>	Glucoside xylosyltransferase 1	> -0.02	0.41	
H3F3B	<u>NM_005324</u>	H3 histone, family 3B (H3.3B)	-0.06	0.33	√
HAND2	<u>NM_021973</u>	Heart and neural crest derivatives expressed 2	> -0.02	0.52	
HAPLN1	<u>NM_001884</u>	Hyaluronan and proteoglycan link protein 1	> -0.02	0.66	
HAUS3	<u>NM_024511</u>	HAUS augmin-like complex, subunit 3	-0.12	0.33	
HCN1	<u>NM_021072</u>	Hyperpolarization activated cyclic nucleotide-gated potassium channel 1	-0.28	0.12	
HECW2	<u>NM_020760</u>	HECT, C2 and WW domain containing E3 ubiquitin protein ligase 2	> -0.03	0.41	
HEMGN	<u>NM_018437</u>	Hemogen	-0.27	< 0.1	
HEXIM1	<u>NM_006460</u>	Hexamethylene bis-acetamide inducible 1	-0.1	0.49	
HIC2	<u>NM_015094</u>	Hypermethylated in cancer 2	> -0.08	0.94	
HIPK2	<u>NM_001113239</u>	Homeodomain interacting protein kinase 2	> -0.04	0.47	
HLF	<u>NM_002126</u>	Hepatic leukemia factor	> -0.03	0.71	√
HMBS	<u>NM_000190</u>	Hydroxymethylbilane synthase	-0.3	0.77	
HOXA11	<u>NM_005523</u>	Homeobox A11	-0.2	0.72	√
HOXB8	<u>NM_024016</u>	Homeobox B8	-0.06	0.45	
HOXC8	<u>NM_022658</u>	Homeobox C8	-0.45	0.88	
HS2ST1	<u>NM_012262</u>	Heparan sulfate 2-O-sulfotransferase 1	> -0.03	0.52	
HS6ST3	<u>NM_153456</u>	Heparan sulfate 6-O-sulfotransferase 3	-0.1	0.33	

HSP90B1	NM_003299	Heat shock protein 90kda beta (Grp94), member 1	-0.32	0.29	
HSPC159	NM_014181	Galectin-related protein	-0.23	0.92	
HTT	NM_002111	Huntingtin	> -0.06	<0.1	
HYOU1	NM_001130991	Hypoxia up-regulated 1	-0.08	0.68	
IGDCC3	NM_004884	Immunoglobulin superfamily, DCC subclass, member 3	> -0.03	0.87	
IGF2BP3	NM_006547	Insulin-like growth factor 2 mrna binding protein 3	-0.05	0.38	
ILF3	NM_012218	Interleukin enhancer binding factor 3, 90kda	-0.1	0.48	
IPMK	NM_152230	Inositol polyphosphate multikinase	-0.27	0.58	
IPO5	NM_002271	Importin 5	-0.04	0.93	
IQCJ-SCHIP1	NM_001197113	IQCJ-SCHIP1 readthrough	-0.14	0.55	
ITGA3	NM_002204	Integrin, alpha 3 (antigen CD49C, alpha 3 subunit of VLA-3 receptor)	-0.16	0.67	
ITGA6	NM_000210	Integrin, alpha 6	-0.06	0.34	
KALRN	NM_003947	Kalirin, rhogef kinase	-0.16	0.48	
KANK1	NM_015158	KN motif and ankyrin repeat domains 1	-0.26	0.41	
KBTBD7	NM_032138	Kelch repeat and BTB (POZ) domain containing 7	-0.09	0.3	
KCMF1	NM_020122	Potassium channel modulatory factor 1	> -0.01	0.62	
KCNA1	NM_000217	Potassium voltage-gated channel, shaker-related subfamily, member 1 (episodic ataxia with myokymia)	-0.2	0.65	
KCNH8	NM_144633	Potassium voltage-gated channel, subfamily H (eag-related), member 8	-0.15	0.43	
KCNJ10	NM_002241	Potassium inwardly-rectifying channel, subfamily J, member 10	> -0.03	0.32	
KCNN3	NM_001204087	Potassium intermediate/small conductance calcium-activated channel, subfamily N, member 3	> -0.05	0.58	
KCTD10	NM_031954	Potassium channel tetramerisation domain containing 10	> -0.06	0.44	
KDM5A	NM_001042603	Lysine (K)-specific demethylase 5A	> -0.07	0.77	√
KHSRP	NM_003685	KH-type splicing regulatory protein	N/A	0.71	
KIAA0226	NM_001145642	KIAA0226	> -0.04	0.49	

KIAA0247	<u>NM_014734</u>	KIAA0247	-0.12	0.42	
KIAA0664	<u>NM_015229</u>	KIAA0664	> -0.03	0.68	
KIAA1244	<u>NM_020340</u>	KIAA1244	> -0.05	0.61	
KIAA1324L	<u>NM_001142749</u>	KIAA1324-like	> -0.04	0.58	
KIAA1462	<u>NM_020848</u>	KIAA1462	-0.14	0.64	
KIAA1467	<u>NM_020853</u>	KIAA1467	-0.06	0.32	
KIAA1549	<u>NM_001164665</u>	KIAA1549	-0.02	0.52	√
KIAA1715	<u>NM_030650</u>	KIAA1715	-0.23	0.38	
KIAA2022	<u>NM_001008537</u>	KIAA2022	> -0.09	0.92	
KIF1C	<u>NM_006612</u>	Kinesin family member 1C	> -0.01	0.3	
KITLG	<u>NM_000899</u>	KIT ligand	> -0.06	0.37	
KLF15	<u>NM_014079</u>	Kruppel-like factor 15	-0.28	0.73	
KLF3	<u>NM_016531</u>	Kruppel-like factor 3 (basic)	-0.07	0.81	
KLHDC5	<u>NM_020782</u>	Kelch domain containing 5	-0.12	0.5	
KLHL15	<u>NM_030624</u>	Kelch-like 15 (Drosophila)	> -0.03	0.36	
KLHL2	<u>NM_001161521</u>	Kelch-like 2, Mayven (Drosophila)	-0.27	0.4	
KLHL29	<u>NM_052920</u>	Kelch-like 29 (Drosophila)	-0.26	0.52	
KLHL5	<u>NM_001007075</u>	Kelch-like 5 (Drosophila)	-0.09	0.88	
KREMEN1	<u>NM_001039570</u>	Kringle containing transmembrane protein 1	-0.1	0.51	
L1CAM	<u>NM_000425</u>	L1 cell adhesion molecule	-0.02	0.54	
LAMC1	<u>NM_002293</u>	Laminin, gamma 1 (formerly LAMB2)	> -0.02	0.63	
LARP4	<u>NM_001170803</u>	La ribonucleoprotein domain family, member 4	-0.2	0.86	
LBR	<u>NM_002296</u>	Lamin B receptor	-0.14	0.45	
LCOR	<u>NM_001170765</u>	Ligand dependent nuclear receptor corepressor	-0.15	0.72	

LCORL	NM_001166139	Ligand dependent nuclear receptor corepressor-like	-0.11	0.67	
LGI2	NM_018176	Leucine-rich repeat LGI family, member 2	-0.09	0.53	
LHFPL3	NM_199000	Lipoma HMGIC fusion partner-like 3	-0.17	0.41	
LIMCH1	NM_001112717	LIM and calponin homology domains 1	> -0.03	0.34	
LIMS1	NM_001193482	LIM and senescent cell antigen-like domains 1	> -0.02	0.34	
LIN7C	NM_018362	Lin-7 homolog C (C. Elegans)	> -0.02	0.52	
LMBRD2	NM_001007527	LMBR1 domain containing 2	-0.27	0.4	
LMO1	NM_002315	LIM domain only 1 (rhombotin 1)	-0.17	0.51	√
LMO3	NM_001001395	LIM domain only 3 (rhombotin-like 2)	-0.18	0.8	
LMX1A	NM_001174069	LIM homeobox transcription factor 1, alpha	-0.04	0.38	
LNX2	NM_153371	Ligand of numb-protein X 2	> -0.01	0.32	
LOC100507421	NM_001195278	Transmembrane protein 178-like	-0.15	0.72	
LPCAT1	NM_024830	Lysophosphatidylcholine acyltransferase 1	-0.15	0.69	
LPGAT1	NM_014873	Lysophosphatidylglycerol acyltransferase 1	> -0.03	0.46	
LPP	NM_001167671	LIM domain containing preferred translocation partner in lipoma	> -0.10	0.9	√
LPPR4	NM_001166252	Lipid phosphate phosphatase-related protein type 4	-0.04	0.66	
LRBA	NM_001199282	LPS-responsive vesicle trafficking, beach and anchor containing	-0.26	0.39	
LRP12	NM_001135703	Low density lipoprotein receptor-related protein 12	-0.12	0.5	
LRP6	NM_002336	Low density lipoprotein receptor-related protein 6	> -0.02	0.55	
LRRC32	NM_001128922	Leucine rich repeat containing 32	-0.25	0.65	
LRRK2	NM_198578	Leucine-rich repeat kinase 2	-0.04	0.39	

LTN1	NM_015565	Listerin E3 ubiquitin protein ligase 1	> -0.02	0.31	
LUZP1	NM_001142546	Leucine zipper protein 1	> -0.01	0.59	
LYPLA2	NM_007260	Lysophospholipase II	> -0.02	0.57	
MADD	NM_001135943	MAP-kinase activating death domain	-0.16	0.74	
MAEA	NM_001017405	Macrophage erythroblast attacher	-0.02	0.6	
MAMDC2	NM_153267	MAM domain containing 2	-0.23	0.78	
MAP1A	NM_002373	Microtubule-associated protein 1A	-0.04	0.75	
MAP2K1	NM_002755	Mitogen-activated protein kinase kinase 1	-0.21	0.38	√
MAP3K10	NM_002446	Mitogen-activated protein kinase kinase kinase 10	-0.12	0.58	
MAP3K3	NM_002401	Mitogen-activated protein kinase kinase kinase 3	> -0.03	0.68	
MAP3K9	NM_033141	Mitogen-activated protein kinase kinase kinase 9	> -0.02	0.48	
MAP4K4	NM_001242559	Mitogen-activated protein kinase kinase kinase kinase 4	> -0.01	0.61	
MAPK1IP1L	NM_144578	Mitogen-activated protein kinase 1 interacting protein 1-like	> -0.03	0.51	
MARCKS	NM_002356	Myristoylated alanine-rich protein kinase C substrate	> -0.01	0.42	
MARK1	NM_018650	MAP/microtubule affinity-regulating kinase 1	-0.44	0.4	
MBD2	NM_003927	Methyl-cpg binding domain protein 2	> -0.01	0.4	
MBNL1	NM_021038	Muscleblind-like (Drosophila)	-0.05	0.66	
MBNL2	NM_144778	Muscleblind-like 2 (Drosophila)	-0.04	0.52	
MCART6	NM_001012755	Mitochondrial carrier triple repeat 6	> -0.02	0.7	
MCC	NM_001085377	Mutated in colorectal cancers	-0.2	0.73	
MCL1	NM_001197320	Myeloid cell leukemia sequence 1 (BCL2-related)	> -0.01	0.55	
MECP2	NM_004992	Methyl cpg binding protein 2 (Rett syndrome)	-0.17	0.46	
MEF2A	NM_001130926	Myocyte enhancer factor 2A	-0.14	0.75	
METAP1	NM_015143	Methionyl aminopeptidase 1	-0.34	0.48	

MEX3A	NM_001093725	Mex-3 homolog A (<i>C. Elegans</i>)	> -0.02	0.57	
MEX3B	NM_032246	Mex-3 homolog B (<i>C. Elegans</i>)	-0.06	0.38	
MFAP3L	NM_001009554	Microfibrillar-associated protein 3-like	-0.08	0.78	
MGA	NM_001080541	MAX gene associated	> -0.01	0.48	
MINK1	NM_001024937	Misshapen-like kinase 1	> -0.03	0.65	
MIP	NM_012064	Major intrinsic protein of lens fiber	-0.08	0.55	
MKNK2	NM_199054	MAP kinase interacting serine/threonine kinase 2	> -0.02	0.52	
MKRN1	NM_001145125	Makorin ring finger protein 1	-0.18	<0.1	
MMP14	NM_004995	Matrix metalloproteinase 14 (membrane-inserted)	> -0.02	0.56	
MNX1	NM_001165255	Motor neuron and pancreas homeobox 1	-0.09	0.53	
MOBKL2B	NM_024761	MOB1, Mps One Binder kinase activator-like 2B (yeast)	> -0.02	0.49	
MOSPD1	NM_019556	Motile sperm domain containing 1	-0.15	0.73	
MSL2	NM_001145417	Male-specific lethal 2 homolog (<i>Drosophila</i>)	> -0.02	0.42	
MTF1	NM_005955	Metal-regulatory transcription factor 1	> -0.04	0.71	
MTF2	NM_001164391	Metal response element binding transcription factor 2	-0.28	0.79	
MTMR10	NM_017762	Myotubularin related protein 10	-0.2	0.76	
MTMR12	NM_001040446	Myotubularin related protein 12	-0.13	0.6	
MTMR9	NM_015458	Myotubularin related protein 9	-0.12	0.78	
MTPN	NM_145808	Myotrophin	> -0.03	0.6	
MYBL1	NM_001080416	V-myb myeloblastosis viral oncogene homolog (avian)-like 1	-0.12	0.61	
MYCBP	NM_012333	C-myc binding protein	> -0.01	0.45	
MYCBP2	NM_015057	MYC binding protein 2	-0.09	0.31	

MYH10	<u>NM_005964</u>	Myosin, heavy chain 10, non-muscle	> -0.02	0.62	
MYNN	<u>NM_001185118</u>	Myoneurin	> -0.04	<0.1	
MYO1E	<u>NM_004998</u>	Myosin IE	-0.27	0.74	
NAA50	<u>NM_025146</u>	N(alpha)-acetyltransferase 50, nate catalytic subunit	> -0.03	0.8	
NAALADL2	<u>NM_207015</u>	<i>N</i> -acetylated α -linked acidic dipeptidase-like 2	-0.12	0.68	
NAB1	<u>NM_005966</u>	NGFI-A binding protein 1 (EGR1 binding protein 1)	-0.07	0.42	
NACC2	<u>NM_144653</u>	NACC family member 2, BEN and BTB (POZ) domain containing	> -0.05	0.93	
NAP1L5	<u>NM_153757</u>	Nucleosome assembly protein 1-like 5	-0.03	0.26	
NBEA	<u>NM_001204197</u>	Neurobeachin	-0.04	0.39	
NCOA2	<u>NM_006540</u>	Nuclear receptor coactivator 2	-0.25	0.62	√
NDRG2	<u>NM_016250</u>	NDRG family member 2	> -0.02	0.31	
NEGR1	<u>NM_173808</u>	Neuronal growth regulator 1	> -0.05	0.63	
NEO1	<u>NM_001172623</u>	Neogenin 1	> -0.02	0.36	
NFAT5	<u>NM_001113178</u>	Nuclear factor of activated T-cells 5, tonicity-responsive	-0.25	0.67	
NFIB	<u>NM_001190737</u>	Nuclear factor I/B	> -0.05	0.39	√
NKX3-2	<u>NM_001189</u>	NK3 homeobox 2	> -0.03	0.49	
NLK	<u>NM_016231</u>	Nemo-like kinase	-0.07	0.63	
NLN	<u>NM_020726</u>	Neurolysin (metallopeptidase M3 family)	-0.3	0.67	
NMNAT2	<u>NM_015039</u>	Nicotinamide nucleotide adenylyltransferase 2	> -0.03	0.51	
NOL4	<u>NM_001198546</u>	Nucleolar protein 4	> -0.02	0.51	
NOTCH2	<u>NM_024408</u>	Notch 2	-0.11	0.71	√
NPTN	<u>NM_001161363</u>	Neuroplastin	-0.08	0.38	
NR1D2	<u>NM_001145425</u>	Nuclear receptor subfamily 1, group D, member 2	-0.26	0.89	
NR2C2	<u>NM_003298</u>	Nuclear receptor subfamily 2, group C, member 2	-0.08	0.7	

NR3C1	NM_000176	Nuclear receptor subfamily 3, group C, member 1 (glucocorticoid receptor)	> -0.05	0.72	
NR6A1	NM_001489	Nuclear receptor subfamily 6, group A, member 1	-0.3	0.6	
NRP1	NM_003873	Neuropilin 1	> -0.01	0.37	
NRXN1	NM_001135659	Neurexin 1	-0.07	0.47	
NUDT12	NM_031438	Nudix (nucleoside diphosphate linked moiety X)-type motif 12	-0.54	0.49	
NUFIP2	NM_020772	Nuclear fragile X mental retardation protein interacting protein 2	> -0.03	0.55	
ONECUT2	NM_004852	One cut homeobox 2	-0.23	0.92	
OTUD4	NM_001102653	OTU domain containing 4	-0.29	0.27	
PAFAH1B1	NM_000430	Platelet-activating factor acetylhydrolase 1b, regulatory subunit 1 (45 kDa)	-0.11	0.37	
PAFAH1B2	NM_002572	Platelet-activating factor acetylhydrolase 1b, catalytic subunit 2 (30 kDa)	> -0.05	0.46	√
PAG1	NM_018440	Phosphoprotein associated with glycosphingolipid microdomains 1	> -0.04	0.41	
PAK7	NM_020341	P21 protein (Cdc42/Rac)-activated kinase 7	-0.05	0.5	
PAN3	NM_175854	PAN3 poly(A) specific ribonuclease subunit homolog (<i>S. Cerevisiae</i>)	> -0.02	0.33	
PANK3	NM_024594	Pantothenate kinase 3	-0.06	0.37	
PAPD5	NM_001040284	PAP associated domain containing 5	-0.33	0.94	
PAPOLG	NM_022894	Poly(A) polymerase gamma	-0.09	0.8	
PARK2	NM_004562	Parkinson protein 2, E3 ubiquitin protein ligase (parkin)	-0.2	0.39	
PAWR	NM_002583	PRKC, apoptosis, WT1, regulator	-0.2	0.36	
PBMUCL1	NM_001198815	Panbronchiolitis related mucin-like 1	-0.34	< 0.1	
PBX1	NM_001204961	Pre-B-cell leukemia homeobox 1	> -0.02	0.76	√

PBX3	NM_001134778	Pre-B-cell leukemia homeobox 3	-0.18	0.49	
PCGF2	NM_007144	Polycomb group ring finger 2	> -0.02	0.67	
PDAP1	NM_014891	PDGFA associated protein 1	-0.16	0.71	
PDE10A	NM_001130690	Phosphodiesterase 10A	-0.06	0.7	
PDPK1	NM_002613	3-phosphoinositide dependent protein kinase-1	-0.17	0.81	
PDXDC1	NM_015027	Pyridoxal-dependent decarboxylase domain containing 1	-0.19	0.69	
PEAK1	NM_024776	NKF3 kinase family member	-0.14	0.8	
PGR	NM_000926	Progesterone receptor	> -0.06	<0.1	
PHACTR2	NM_001100164	Phosphatase and actin regulator 2	-0.17	0.64	
PHC3	NM_024947	Polyhomeotic homolog 3 (Drosophila)	> -0.05	0.78	
PHF2	NM_005392	PHD finger protein 2	> -0.01	0.4	
PHIP	NM_017934	Pleckstrin homology domain interacting protein	> -0.06	0.88	
PHKA1	NM_001122670	Phosphorylase kinase, alpha 1 (muscle)	> -0.03	<0.1	
PHLDA1	NM_007350	Pleckstrin homology-like domain, family A, member 1	-0.2	0.81	
PHLPP2	NM_015020	PH domain and leucine rich repeat protein phosphatase 2	-0.1	<0.1	
PHTF2	NM_001127357	Putative homeodomain transcription factor 2	-0.2	0.22	
PI4K2A	NM_018425	Phosphatidylinositol 4-kinase type 2 alpha	> -0.02	0.63	
PIP4K2B	NM_003559	Phosphatidylinositol-5-phosphate 4-kinase, type II, beta	> -0.03	0.55	
PJA2	NM_014819	Praja ring finger 2	-0.09	0.58	
PKDCC	NM_138370	Protein kinase domain containing, cytoplasmic homolog (mouse)	> -0.01	0.38	
PLAU	NM_001145031	Plasminogen activator, urokinase	-0.19	0.13	
PLCXD3	NM_001005473	Phosphatidylinositol-specific phospholipase C, X domain containing 3	> -0.03	0.44	
PLEKHA3	NM_019091	Pleckstrin homology domain containing, family A (phosphoinositide binding specific) member 3	-0.16	0.36	
PNRC2	NM_017761	Proline-rich nuclear receptor coactivator 2	-0.25	0.68	

PODXL	NM_001018111	Podocalyxin-like	-0.07	0.85	
POU2F1	NM_001198783	POU class 2 homeobox 1	> -0.10	0.98	
PPAP2B	NM_003713	Phosphatidic acid phosphatase type 2B	-0.06	0.53	
PPARA	NM_001001928	Peroxisome proliferator-activated receptor alpha	-0.26	0.72	
PPP5K2	NM_015216	Diphosphoinositol pentakisphosphate kinase 2	-0.57	0.66	
PPP1CB	NM_002709	Protein phosphatase 1, catalytic subunit, beta isozyme	> -0.02	0.81	
PPP1R2	NM_006241	Protein phosphatase 1, regulatory (inhibitor) subunit 2	-0.14	0.62	
PPP1R3B	NM_001201329	Protein phosphatase 1, regulatory (inhibitor) subunit 3B	-0.28	0.7	
PPP2R3A	NM_001190447	Protein phosphatase 2, regulatory subunit B', alpha	-0.17	0.44	
PPP2R5E	NM_006246	Protein phosphatase 2, regulatory subunit B', epsilon isoform	> -0.02	0.56	
PQLC1	NM_001146343	PQ loop repeat containing 1	-0.23	<0.1	
PRDM1	NM_001198	PR domain containing 1, with ZNF domain	-0.09	0.48	√
PRICKLE2	NM_198859	Prickle homolog 2 (Drosophila)	-0.09	0.62	
PRKCD	NM_006254	Protein kinase C, delta	-0.26	0.67	
PRLR	NM_000949	Prolactin receptor	-0.13	0.12	
PRRC2C	NM_015172	Proline-rich coiled-coil 2C	-0.11	0.69	
PSAP	NM_001042465	Prosaposin	> -0.03	0.47	
PSMF1	NM_006814	Proteasome (prosome, macropain) inhibitor subunit 1 (PI31)	N/A	0.47	
PTBP2	NM_021190	Polypyrimidine tract binding protein 2	-0.14	0.42	
PTPN9	NM_002833	Protein tyrosine phosphatase, non-receptor type 9	-0.2	0.65	
PTPRB	NM_001109754	Protein tyrosine phosphatase, receptor type, B	> -0.03	0.27	
PTPRE	NM_006504	Protein tyrosine phosphatase, receptor type, E	-0.11	0.76	
PURB	NM_033224	Purine-rich element binding protein B	> -0.04	0.23	

QSER1	NM_001076786	Glutamine and serine rich 1	> -0.03	0.51	
RAB11FIP2	NM_014904	RAB11 family interacting protein 2 (class I)	> -0.03	0.39	
RAB3GAP2	NM_012414	RAB3 gtpase activating protein subunit 2 (non-catalytic)	> -0.01	0.5	
RAB8B	NM_016530	RAB8B, member RAS oncogene family	> -0.03	0.58	
RAD23B	NM_002874	RAD23 homolog B (S. Cerevisiae)	-0.07	0.75	
RAI1	NM_030665	Retinoic acid induced 1	-0.04	0.41	
RALBP1	NM_006788	Rala binding protein 1	> -0.01	0.46	
RALGAPA2	NM_020343	Ral gtpase activating protein, alpha subunit 2 (catalytic)	-0.11	0.79	
RALGAPB	NM_020336	Ral gtpase activating protein, beta subunit (non-catalytic)	-0.32	0.73	
RANBP3	NM_003624	RAN binding protein 3	> -0.02	0.66	
RAP1B	NM_001010942	RAP1B, member of RAS oncogene family	-0.17	0.73	
RASAL2	NM_004841	RAS protein activator like 2	> -0.02	0.32	
RASL10B	NM_033315	RAS-like, family 10, member B	> -0.01	0.4	
RBM47	NM_001098634	RNA binding motif protein 47	> -0.04	0.7	
RCOR1	NM_015156	REST corepressor 1	-0.1	0.93	
RECK	NM_021111	Reversion-inducing-cysteine-rich protein with kazal motifs	-0.15	0.6	
RGMA	NM_001166283	RGM domain family, member A	> -0.02	0.67	
RIMKLA	NM_173642	Ribosomal modification protein rimk-like family member A	> -0.06	0.32	
RLIM	NM_016120	Ring finger protein, LIM domain interacting	> -0.05	0.75	
RMND5A	NM_022780	Required for meiotic nuclear division 5 homolog A (S. Cerevisiae)	> -0.02	0.4	
RNF125	NM_017831	Ring finger protein 125	-0.2	0.41	
RNF144B	NM_182757	Ring finger protein 144B	-0.22	<0.1	
RNF145	NM_001199380	Ring finger protein 145	-0.21	0.59	
RNF169	NM_001098638	Ring finger protein 169	> -0.09	0.65	

RNF34	NM_025126	Ring finger protein 34	-0.28	0.46	
RNMT	NM_003799	RNA (guanine-7-) methyltransferase	-0.2	0.69	
ROBO2	NM_001128929	Roundabout, axon guidance receptor, homolog 2 (Drosophila)	-0.06	0.77	
ROD1	NM_001163788	ROD1 regulator of differentiation 1 (S. Pombe)	> -0.08	0.56	
RORA	NM_002943	RAR-related orphan receptor A	-0.26	0.99	
RORB	NM_006914	RAR-related orphan receptor B	-0.08	0.39	
RPS6KA3	NM_004586	Ribosomal protein S6 kinase, 90kda, polypeptide 3	-0.19	0.76	
RPS6KA6	NM_014496	Ribosomal protein S6 kinase, 90kda, polypeptide 6	> -0.04	0.68	
RPS6KB1	NM_003161	Ribosomal protein S6 kinase, 70kda, polypeptide 1	-0.35	<0.1	
RRP15	NM_016052	Ribosomal RNA processing 15 homolog (S. Cerevisiae)	-0.26	0.3	
RSPO2	NM_178565	R-spondin 2	-0.18	0.48	
RTKN2	NM_145307	Rhotekin 2	-0.07	<0.1	
RYR3	NM_001036	Ryanodine receptor 3	-0.12	0.48	
S1PR1	NM_001400	Sphingosine-1-phosphate receptor 1	-0.4	0.65	
SAMD4A	NM_001161576	Sterile alpha motif domain containing 4A	-0.04	0.78	
SASH1	NM_015278	SAM and SH3 domain containing 1	> -0.02	0.46	
SBNO1	NM_001167856	Strawberry notch homolog 1 (Drosophila)	> -0.07	0.61	
SCD	NM_005063	Stearoyl-coa desaturase (delta-9-desaturase)	-0.28	0.8	
SCHIP1	NM_001197107	Schwannomin interacting protein 1	-0.14	0.55	
SCN9A	NM_002977	Sodium channel, voltage-gated, type IX, alpha subunit	-0.19	0.31	
SEC24C	NM_004922	SEC24 family, member C (S. Cerevisiae)	-0.21	0.56	
SECISBP2	NM_024077	SECIS binding protein 2	-0.12	0.49	
SEL1L	NM_005065	Sel-1 suppressor of lin-12-like (C. Elegans)	-0.08	0.75	
SEMA3C	NM_006379	Sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3C	-0.29	0.62	
SEMA4F	NM_004263	Sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4F	> -0.02	0.56	

SEPT3	NM_019106	Septin 3	-0.07	0.7	
SERTAD2	NM_014755	SERTA domain containing 2	> -0.05	0.71	
SETX	NM_015046	Senataxin	-0.11	0.43	
SH2B3	NM_005475	SH2B adaptor protein 3	-0.23	0.63	√
SH3GLB1	NM_001206651	SH3-domain GRB2-like endophilin B1	> -0.01	0.26	
SHE	NM_001010846	Src homology 2 domain containing E	> -0.04	0.38	
SIN3B	NM_015260	SIN3 homolog B, transcription regulator (yeast)	-0.28	0.73	
SIX2	NM_016932	SIX homeobox 2	-0.08	0.78	
SIX4	NM_017420	SIX homeobox 4	-0.07	0.61	
SLA	NM_001045556	Src-like-adaptor	-0.22	0.29	
SLAIN2	NM_020846	SLAIN motif family, member 2	> -0.07	0.96	
SLC19A2	NM_006996	Solute carrier family 19 (thiamine transporter), member 2	-0.29	0.66	
SLC25A25	NM_001006641	Solute carrier family 25 (mitochondrial carrier; phosphate carrier), member 25	-0.09	0.79	
SLC25A36	NM_001104647	Solute carrier family 25, member 36	> -0.03	0.23	
SLC25A37	NM_016612	Solute carrier family 25, member 37	-0.36	0.66	
SLC25A4	NM_001151	Solute carrier family 25 (mitochondrial carrier; adenine nucleotide translocator), member 4	-0.16	0.5	
SLC26A4	NM_000441	Solute carrier family 26, member 4	-0.22	0.51	
SLC35F1	NM_001029858	Solute carrier family 35, member F1	> -0.02	0.5	
SLC38A2	NM_018976	Solute carrier family 38, member 2	-0.1	0.69	
SLC6A2	NM_001172504	Solute carrier family 6 (neurotransmitter transporter, noradrenalin), member 2	-0.07	0.65	
SLC7A1	NM_003045	Solute carrier family 7 (cationic amino acid transporter, y+ system), member 1	> -0.02	0.48	
SLC7A2	NM_001008539	Solute carrier family 7 (cationic amino acid transporter, y+ system), member 2	-0.33	<0.1	

SLC9A6	NM_001042537	Solute carrier family 9 (sodium/hydrogen exchanger), member 6	-0.1	0.52	
SLC9A8	NM_015266	Solute carrier family 9 (sodium/hydrogen exchanger), member 8	> -0.02	0.63	
SLITRK1	NM_052910	SLIT and NTRK-like family, member 1	-0.2	0.81	
SLITRK4	NM_001184749	SLIT and NTRK-like family, member 4	> -0.04	0.4	
SMAD2	NM_001003652	SMAD family member 2	-0.04	0.58	
SP1	NM_003109	Sp1 transcription factor	> -0.03	0.4	
SPIRE1	NM_001128626	Spire homolog 1 (Drosophila)	-0.12	0.66	
SPTY2D1	NM_194285	SPT2, Suppressor of Ty, domain containing 1 (<i>S. Cerevisiae</i>)	-0.07	0.63	
SRCIN1	NM_025248	SRC kinase signaling inhibitor 1	> -0.02	0.33	
SRPK2	NM_182691	SRSF protein kinase 2	-0.28	0.65	
SRSF5	NM_001039465	Serine/arginine-rich splicing factor 5	-0.12	0.38	
SRSF7	NM_001031684	Serine/arginine-rich splicing factor 7	-0.27	0.66	
SS18L1	NM_198935	Synovial sarcoma translocation gene on chromosome 18-like 1	-0.12	0.93	√
ST8SIA4	NM_005668	ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 4	-0.33	0.81	
STAU1	NM_001037328	Staufen, RNA binding protein, homolog 1 (Drosophila)	-0.06	0.26	
STC1	NM_003155	Stanniocalcin 1	-0.11	0.37	
STC2	NM_003714	Stanniocalcin 2	-0.17	0.43	
STRN	NM_003162	Striatin, calmodulin binding protein	> -0.05	0.88	
SUDS3	NM_022491	Suppressor of defective silencing 3 homolog (<i>S. Cerevisiae</i>)	-0.17	0.53	
SYT3	NM_001160328	Synaptotagmin III	> -0.02	0.47	

TAB3	NM_152787	TGF-beta activated kinase 1/MAP3K7 binding protein 3	-0.06	0.63	
TADA2B	NM_152293	Transcriptional adaptor 2B	-0.29	0.84	
TANC2	NM_025185	Tetratricopeptide repeat, ankyrin repeat and coiled-coil containing 2	-0.07	0.74	
TAOK1	NM_020791	TAO kinase 1	> -0.03	0.7	
TARDBP	NM_007375	TAR DNA binding protein	-0.04	0.54	
TBC1D1	NM_015173	TBC1 (tre-2/USP6, BUB2, cdc16) domain family, member 1	-0.32	0.67	
TBC1D14	NM_001113361	TBC1 domain family, member 14	-0.03	0.65	
TBC1D2B	NM_015079	TBC1 domain family, member 2B	-0.02	0.5	
TBC1D4	NM_014832	TBC1 domain family, member 4	-0.25	0.59	
TBL1X	NM_001139466	Transducin (beta)-like 1X-linked	-0.1	0.77	
TCERG1	NM_001040006	Transcription elongation regulator 1	-0.38	0.63	
TCF7L2	NM_001146274	Transcription factor 7-like 2 (T-cell specific, HMG-box)	-0.17	0.64	√
TGFBR3	NM_001195683	Transforming growth factor, beta receptor III	> -0.03	0.65	
THRB	NM_000461	Thyroid hormone receptor, beta (erythroblastic leukemia viral (v-erb-a) oncogene homolog 2, avian)	-0.06	0.66	
TLK2	NM_001112707	Tousled-like kinase 2	> -0.03	0.31	
TLL1	NM_012464	Tolloid-like 1	-0.07	0.63	
TM9SF4	NM_014742	Transmembrane 9 superfamily protein member 4	-0.05	0.53	
TMED5	NM_001167830	Transmembrane emp24 protein transport domain containing 5	> -0.02	0.47	
TMEM127	NM_001193304	Transmembrane protein 127	> -0.03	0.48	
TMEM132B	NM_052907	Transmembrane protein 132B	-0.1	0.7	
TMEM132D	NM_133448	Transmembrane protein 132D	-0.16	0.74	

TMEM135	NM_001168724	Transmembrane protein 135	> -0.05	0.41	
TMEM151B	NM_001137560	Transmembrane protein 151B	-0.07	0.75	
TMEM165	NM_018475	Transmembrane protein 165	-0.33	0.39	
TMEM47	NM_031442	Transmembrane protein 47	-0.09	0.11	
TMEM64	NM_001008495	Transmembrane protein 64	-0.2	0.57	
TNF	NM_000594	Tumor necrosis factor	-0.28	0.29	
TNFAIP1	NM_021137	Tumor necrosis factor, alpha-induced protein 1 (endothelial)	-0.12	0.37	
TNFRSF11B	NM_002546	Tumor necrosis factor receptor superfamily, member 11b	-0.3	0.68	
TNP1	NM_003284	Transition protein 1 (during histone to protamine replacement)	-0.09	0.32	
TNPO1	NM_002270	Transportin 1	-0.29	0.98	
TNRC6B	NM_001024843	Trinucleotide repeat containing 6B	> -0.09	0.85	
TNS1	NM_022648	Tensin 1	-0.24	0.7	
TOM1L1	NM_005486	Target of myb1 (chicken)-like 1	-0.44	0.77	
TOR1AIP2	NM_022347	Torsin A interacting protein 2	> -0.01	0.31	
TRANK1	NM_014831	Tetratricopeptide repeat and ankyrin repeat containing 1	> -0.01	0.35	
TRIM3	NM_006458	Tripartite motif containing 3	> -0.02	0.66	
TRIM71	NM_001039111	Tripartite motif containing 71	-0.26	0.7	
TRNP1	NM_001013642	TMF1-regulated nuclear protein 1	-0.19	0.5	
TRPM7	NM_017672	Transient receptor potential cation channel, subfamily M, member 7	> -0.01	0.54	
TSC22D2	NM_014779	TSC22 domain family, member 2	-0.18	0.27	
TTC39A	NM_001080494	Tetratricopeptide repeat domain 39A	-0.05	0.36	
TTC39B	NM_001168339	Tetratricopeptide repeat domain 39B	-0.2	0.54	

TULP4	NM_001007466	Tubby like protein 4	> -0.03	0.27	
TXK	NM_003328	TXK tyrosine kinase	-0.12	0.45	
TXNDC12	NM_015913	Thioredoxin domain containing 12 (endoplasmic reticulum)	-0.24	0.44	
UBE2B	NM_003337	Ubiquitin-conjugating enzyme E2B	-0.16	0.35	
UBE2J1	NM_016021	Ubiquitin-conjugating enzyme E2, J1, U	-0.09	0.53	
UBL3	NM_007106	Ubiquitin-like 3	> -0.03	< 0.1	
UBN2	NM_173569	Ubinuclein 2	-0.13	0.89	
UNKL	NM_001193388	Unkempt homolog (Drosophila)-like	> -0.01	0.52	
USP42	NM_032172	Ubiquitin specific peptidase 42	-0.24	0.57	
USP47	NM_017944	Ubiquitin specific peptidase 47	-0.2	0.48	
USP6NL	NM_001080491	USP6 N-terminal like	-0.08	0.55	
USP8	NM_001128610	Ubiquitin specific peptidase 8	-0.06	0.6	
USP9X	NM_001039590	Ubiquitin specific peptidase 9, X-linked	> -0.02	0.43	
VANGL1	NM_001172411	Vang-like 1 (van gogh, Drosophila)	> -0.06	0.57	
VGLL4	NM_001128219	Vestigial like 4 (Drosophila)	> -0.01	0.54	
WDFY3	NM_014991	WD repeat and FYVE domain containing 3	-0.14	0.46	
WDR37	NM_014023	WD repeat domain 37	> -0.02	0.8	
WHSC1	NM_133334	Wolf-Hirschhorn syndrome candidate 1	> -0.03	0.37	√
WSB2	NM_018639	WD repeat and SOCS box containing 2	-0.06	0.28	
XIAP	NM_001167	X-linked inhibitor of apoptosis	-0.14	0.79	
XPO7	NM_015024	Exportin 7	-0.14	0.11	
XYLT1	NM_022166	Xylosyltransferase I	> -0.03	0.81	
YIPF6	NM_001195214	Yip1 domain family, member 6	> -0.02	0.59	

YOD1	NM_018566	YOD1 OTU deubiquinating enzyme 1 homolog (<i>S. Cerevisiae</i>)	-0.09	0.5	
YTHDC1	NM_001031732	YTH domain containing 1	-0.15	0.63	
YTHDF2	NM_001172828	YTH domain family, member 2	-0.09	0.44	
YTHDF3	NM_152758	YTH domain family, member 3	> -0.04	0.37	
YWHAG	NM_012479	Tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, gamma polypeptide	-0.14	0.55	
YWHAZ	NM_001135699	Tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, zeta polypeptide	-0.05	0.29	
YY1	NM_003403	YY1 transcription factor	-0.07	0.33	
ZADH2	NM_175907	Zinc binding alcohol dehydrogenase domain containing 2	> -0.05	0.89	
ZBTB33	NM_001184742	Zinc finger and BTB domain containing 33	-0.1	0.33	
ZBTB4	NM_001128833	Zinc finger and BTB domain containing 4	-0.08	0.86	
ZBTB41	NM_194314	Zinc finger and BTB domain containing 41	> -0.03	0.63	
ZBTB43	NM_001135776	Zinc finger and BTB domain containing 43	-0.23	0.67	
ZCCHC14	NM_015144	Zinc finger, CCHC domain containing 14	> -0.02	0.59	
ZEB2	NM_001171653	Zinc finger E-box binding homeobox 2	> -0.06	0.62	
ZFAND6	NM_001242911	Zinc finger, AN1-type domain 6	-0.23	0.54	
ZFP30	NM_014898	Zinc finger protein 30 homolog (mouse)	-0.1	0.49	
ZFP36L1	NM_004926	Zinc finger protein 36, C3H type-like 1	-0.33	0.57	
ZFP62	NM_001172638	Zinc finger protein 62 homolog (mouse)	-0.33	0.16	
ZFP82	NM_133466	Zinc finger protein 82 homolog (mouse)	-0.33	0.76	
ZIC3	NM_003413	Zic family member 3	-0.26	0.6	
ZMYND11	NM_001202464	Zinc finger, MYND-type containing 11	-0.18	0.51	

ZNF200	<u>NM_001145446</u>	Zinc finger protein 200	-0.1	0.67	
ZNF236	<u>NM_007345</u>	Zinc finger protein 236	> -0.02	0.65	
ZNF280B	<u>NM_080764</u>	Zinc finger protein 280B	> -0.03	0.19	
ZNF286A	<u>NM_001130842</u>	Zinc finger protein 286A	N/A	0.59	
ZNF292	<u>NM_015021</u>	Zinc finger protein 292	> -0.02	0.75	
ZNF295	<u>NM_001098402</u>	Zinc finger protein 295	> -0.01	0.29	
ZNF33B	<u>NM_006955</u>	Zinc finger protein 33B	-0.19	0.3	
ZNF345	<u>NM_001242472</u>	Zinc finger protein 345	-0.16	0.32	
ZNF470	<u>NM_001001668</u>	Zinc finger protein 470	> -0.08	< 0.1	
ZNF562	<u>NM_001130031</u>	Zinc finger protein 562	-0.25	0.48	
ZNF563	<u>NM_145276</u>	Zinc finger protein 563	-0.41	<0.1	
ZNF568	<u>NM_001204838</u>	Zinc finger protein 568	-0.4	<0.1	
ZNF571	<u>NM_016536</u>	Zinc finger protein 571	-0.28	0.59	
ZNF618	<u>NM_133374</u>	Zinc finger protein 618	> -0.05	0.93	
ZNF654	<u>NM_018293</u>	Zinc finger protein 654	-0.16	0.5	
ZNF699	<u>NM_198535</u>	Zinc finger protein 699	-0.29	<0.1	
ZNF704	<u>NM_001033723</u>	Zinc finger protein 704	-0.19	0.91	
ZNF780A	<u>NM_001010880</u>	Zinc finger protein 780A	-0.65	<0.1	
ZNF81	<u>NM_007137</u>	Zinc finger protein 81	> -0.02	0.36	

Supplementary Table 10. Predicted targets of hsa-miR-181a by PicTar.

Gene symbol	Gene name	Refseq Id	PicTar score	Cancer gene
ACSL1	Acyl-CoA synthetase long-chain family member 1	NM_001995	2.87	
ACTL6A	Actin-like 6A, transcript variant 2	NM_177989	4.56	
ACTL6A	Actin-like 6A, transcript variant 3	NM_178042	4.56	
ACTL6A	Actin-like 6A, transcript variant 1	NM_004301	4.56	
ACVR2	Activin A receptor, type II	NM_001616	2.4	
ADAM11	A disintegrin and metalloproteinase domain 11, transcript variant 1	NM_002390	8.37	
ADAM11	A disintegrin and metalloproteinase domain 11, transcript variant 2	NM_021612	7.62	
ADAMTS1	A disintegrin-like and metalloprotease (reprolysin type) with thrombospondin type 1 motif, 1	NM_006988	2.53	
ADAMTS18	A disintegrin-like and metalloprotease (reprolysin type) with thrombospondin type 1 motif, 18, transcript variant 1	NM_199355	2.39	
ADAMTS6	Similar to ADAMTS-10 precursor (A disintegrin and metalloproteinase with thrombospondin motifs 10) (ADAM-TS 10) (ADAM-TS10)	NM_197941	3.53	
ADARB1	Adenosine deaminase, RNA-specific, B1 (RED1 homolog rat), transcript variant DRADA2c	NM_015834	4.15	
ADARB1	Adenosine deaminase, RNA-specific, B1 (RED1 homolog rat), transcript variant DRABA2b	NM_015833	3.01	
ADCY1	Adenylate cyclase 1 (brain)	NM_021116	2.17	
ADCY9	Adenylate cyclase 9	NM_001116	2.52	
ADM	Adrenomedullin	NM_001124	2.73	
AGPAT1	1-Acylglycerol-3-phosphate <i>O</i> -acyltransferase 1 (lysophosphatidic acid acyltransferase, a), transcript variant 1	NM_006411	3.51	
AGPAT1	1-Acylglycerol-3-phosphate <i>O</i> -acyltransferase 1 (lysophosphatidic acid acyltransferase, a), transcript variant 2	NM_032741	3.51	
AKAP7	A kinase (PRKA) anchor protein 7, transcript variant b	NM_138633	6.12	
AKAP7	A kinase (PRKA) anchor protein 7, transcript variant a	NM_004842	6.12	
AKAP7	A kinase (PRKA) anchor protein 7, transcript variant g	NM_016377	6.12	
AKT3	V-Akt murine thymoma viral oncogene homolog 3 (protein kinase B, g), transcript variant 1	NM_005465	1.45	
ALS2	Amyotrophic lateral sclerosis 2 (juvenile)	NM_020919	2.91	
ALS2CR3	Amyotrophic lateral sclerosis 2 (juvenile) chromosome region, candidate 3	NM_015049	5.57	

ANGPT2	Angiotensinogen 2	NM_001147	3.8	
ANKRD15	Ankyrin repeat domain 15, transcript variant 1	NM_015158	2.23	
ANKRD15	Ankyrin repeat domain 15, transcript variant 2	NM_153186	2.23	
API5	Apoptosis inhibitor 5	NM_006595	1.2	
ARFGEF2	ADP-ribosylation factor guanine nucleotide-exchange factor 2 (brefeldin A-inhibited)	NM_006420	5.14	
ARHGEF7	Rho guanine nucleotide exchange factor (GEF) 7, transcript variant 2	NM_145735	5.34	
ARID3B	AT rich interactive domain 3B (BRIGHT-like)	NM_006465	3.56	
ARL5	ADP-ribosylation factor-like 5, transcript variant 1	NM_012097	3.68	
ARL5	ADP-ribosylation factor-like 5, transcript variant 2	NM_177985	3.68	
ARL8	ADP-ribosylation factor-like 8	NM_178815	4.07	
ARNT2	Aryl-hydrocarbon receptor nuclear translocator 2	NM_014862	2.31	
ARSJ	Arylsulfatase family, member J	NM_024590	5.63	
ATP11C	ATPase, Class VI, type 11C	NM_173694	3.33	
ATP1B1	ATPase, Na ⁺ /K ⁺ transporting, beta 1 polypeptide, transcript variant 2	NM_001001787	2.46	
ATP1B1	ATPase, Na ⁺ /K ⁺ transporting, beta 1 polypeptide, transcript variant 1	NM_001677	1.72	
ATP2A2	ATPase, Ca ⁺⁺ transporting, cardiac muscle, slow twitch 2, transcript variant 1	NM_170665	2.15	
ATP2B2	ATPase, Ca ⁺⁺ transporting, plasma membrane 2, transcript variant 1	NM_001001331	5.88	
ATP2B2	ATPase, Ca ⁺⁺ transporting, plasma membrane 2, transcript variant 2	NM_001683	5.88	
ATRNL1	Attractin, transcript variant 1	NM_139321	1.64	
ATXN1	Ataxin 1	NM_000332	8.37	√
B4GALT1	UDP-Gal:betaGlcNAc b1,4- galactosyltransferase, polypeptide 1	NM_001497	3.65	
BAIAP1	BAI1-associated protein 1	NM_004742	2.38	
BAIAP2	BAI1-associated protein 2, transcript variant 1	NM_017450	2.79	
BAZ2A	Bromodomain adjacent to zinc finger domain, 2A	NM_013449	1.52	
BCL2L11	BCL2-like 11 (apoptosis facilitator), transcript variant 6	NM_006538	2.03	
BCL2L11	BCL2-like 11 (apoptosis facilitator), transcript variant 1	NM_138621	2.03	
BCL2L11	BCL2-like 11 (apoptosis facilitator), transcript variant 8	NM_138627	2.01	
BCL2L11	BCL2-like 11 (apoptosis facilitator), transcript variant 7	NM_138626	2.01	
BCL7A	B-cell CLL/lymphoma 7A	NM_020993	1.76	
BHLHB2	Basic helix-loop-helix domain containing, class B, 2	NM_003670	1.76	

BICD2	Bicaudal D homolog 2 (Drosophila), transcript variant 2	NM_015250	1.38	
BICD2	Bicaudal D homolog 2 (Drosophila), transcript variant 1	NM_001003800	1.2	
BMPR2	Bone morphogenetic protein receptor, type II (serine/threonine kinase), transcript variant 1	NM_001204	0.45	
BMPR2	Bone morphogenetic protein receptor, type II (serine/threonine kinase), transcript variant 2	NM_033346	0.42	
BRD1	Bromodomain containing 1	NM_014577	1.9	
BTBD3	BTB (POZ) domain containing 3, transcript variant 1	NM_014962	3.15	
BTBD3	BTB (POZ) domain containing 3, transcript variant 2	NM_181443	3.15	
C13orf23	Chromosome 13 open reading frame 23, transcript variant 1	NM_025138	3.79	
C13orf23	Chromosome 13 open reading frame 23, transcript variant 2	NM_170719	3.79	
C14orf4	Chromosome 14 open reading frame 4	NM_024496	4.29	
C14orf43	Chromosome 14 open reading frame 43	NM_194278	3.84	
C17orf39	Chromosome 17 open reading frame 39	NM_024052	2.84	
C2orf69	Chromosome 2 open reading frame 69	NM_153689	3.61	
C5orf5	Chromosome 5 open reading frame 5	NM_016603	3.31	
C6orf62	Chromosome 6 open reading frame 62	NM_030939	2.54	
C9orf54	Chromosome 9 open reading frame 54	NM_032809	4.1	
CAB39	Calcium binding protein 39	NM_016289	1.01	
CACNA2D2	Calcium channel, voltage-dependent, a2/d subunit 2, transcript variant 2	NM_006030	2.34	
CACNA2D2	Calcium channel, voltage-dependent, a 2/d subunit 2, transcript variant 1	NM_001005505	2.34	
CACNB2	Calcium channel, voltage-dependent, b 2 subunit, transcript variant 1	NM_000724	1.59	
CACNB2	Calcium channel, voltage-dependent, b 2 subunit, transcript variant 3	NM_201590	1.59	
CACNB2	Calcium channel, voltage-dependent, b 2 subunit, transcript variant 8	NM_201572	1.59	
CACNB2	Calcium channel, voltage-dependent, b 2 subunit, transcript variant 4	NM_201597	1.59	
CACNB2	Calcium channel, voltage-dependent, b 2 subunit, transcript variant 5	NM_201593	1.59	
CACNB2	Calcium channel, voltage-dependent, b 2 subunit, transcript variant 6	NM_201571	1.59	
CACNB2	Calcium channel, voltage-dependent, b 2 subunit, transcript variant 2	NM_201596	1.59	
CACNB2	Calcium channel, voltage-dependent, b 2 subunit, transcript variant 7	NM_201570	1.59	
CAMK2G	Calcium/calmodulin-dependent protein kinase (CaM kinase) II g, transcript variant 6	NM_172173	1.81	

CAMK2G	Calcium/calmodulin-dependent protein kinase (CaM kinase) II g, transcript variant 1	NM_172171	1.81	
CAMK2G	Calcium/calmodulin-dependent protein kinase (CaM kinase) II g, transcript variant 3	NM_172170	1.81	
CAMK2G	Calcium/calmodulin-dependent protein kinase (CaM kinase) II g, transcript variant 4	NM_001222	1.81	
CAMK2G	Calcium/calmodulin-dependent protein kinase (CaM kinase) II g, transcript variant 2	NM_172169	1.81	
CAMK2G	Calcium/calmodulin-dependent protein kinase (CaM kinase) II g, transcript variant 5	NM_172172	1.75	
CAMSAP1	Calmodulin regulated spectrin-associated protein 1	NM_015447	1.7	
CARD11	Caspase recruitment domain family, member 11	NM_032415	4.82	√
CARF	Collaborates/cooperates with ARF (alternate reading frame) protein	NM_017632	4.45	
CARM1	Coactivator-associated arginine methyltransferase 1	NM_199141	3.87	
CBFA2T2	Core-binding factor, runt domain, a subunit 2; translocated to, 2, transcript variant 2	NM_005093	2.2	
CBFA2T2	Core-binding factor, runt domain, a subunit 2; translocated to, 2, transcript variant 1	NM_175864	2.2	
CBFA2T3	Core-binding factor, runt domain, a subunit 2; translocated to, 3, transcript variant 1	NM_005187	2.3	√
CBFA2T3	Core-binding factor, runt domain, a subunit 2; translocated to, 3, transcript variant 2	NM_175931	2.3	
CBLB	Cas-Br-M (murine) ecotropic retroviral transforming sequence b	NM_170662	2.77	√
CBX7	Chromobox homolog 7	NM_175709	6.39	
CCNJ	Cyclin J	NM_019084	3.52	
CCNK	Cyclin K	NM_003858	4.46	
CD163	CD163 antigen, transcript variant 1	NM_004244	3.59	
CD163	CD163 antigen, transcript variant 2	NM_203416	3.38	
CD4	CD4 antigen (p55)	NM_000616	2.83	
CDH13	Cadherin 13, H-cadherin (heart)	NM_001257	1.88	
CDH2	Cadherin 2, type 1, N-cadherin (neuronal)	NM_001792	1.51	
CDYL	Chromodomain protein, Y-like, transcript variant 1	NM_004824	1.57	
CDYL	Chromodomain protein, Y-like, transcript variant 3	NM_170752	1.57	
CDYL	Chromodomain protein, Y-like, transcript variant 2	NM_170751	1.57	

CGGBP1	CGG triplet repeat binding protein 1	NM_003663	0.95	
CGI-100	CGI-100 protein	NM_016040	2.16	
CGI-72	CGI-72 protein, transcript variant 1	NM_016018	2.16	
CHD7	Chromodomain helicase DNA binding protein 7	NM_017780	1.86	
CHD9	Chromodomain helicase DNA binding protein 9	NM_025134	1.29	
CHN1	Chimerin 1	NM_001822	2.81	√
CHN2	Chimerin 2	NM_004067	2.63	
CLASP1	Cytoplasmic linker associated protein 1	NM_015282	5.96	
CLOCK	Clock homolog (mouse)	NM_004898	5.37	
CNR1	Cannabinoid receptor 1 (brain), transcript variant 1	NM_016083	1.92	
CNTN4	Contactin 4, transcript variant 2	NM_175612	1.42	
CNTN4	Contactin 4, transcript variant 1	NM_175607	1.42	
CNTNAP3	Contactin associated protein-like 3	NM_033655	1.85	
COL4A3	Collagen, type IV, a 3 (Goodpasture antigen), transcript variant 3	NM_031363	1.09	
COPEB	Core promoter element binding protein	NM_001300	5.38	√
CPD	Carboxypeptidase D	NM_001304	4.49	
CPEB4	Cytoplasmic polyadenylation element binding protein 4	NM_030627	6.27	
CREB1	cAMP responsive element binding protein 1, transcript variant A	NM_004379	1.45	√
CREB1	cAMP responsive element binding protein 1, transcript variant B	NM_134442	1.45	
CRIM1	Cysteine-rich motor neuron 1	NM_016441	0.9	
CSDA	Cold shock domain protein A	NM_003651	2.84	
CSNK1G1	Casein kinase 1, g 1	NM_022048	3.43	
CTCF	CCCTC-binding factor (zinc finger protein)	NM_006565	2.71	
CTDSPL	CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase-like	NM_005808	9.58	
CUGBP2	CUG triplet repeat, RNA binding protein 2	NM_006561	2.4	
CUL3	Cullin 3	NM_003590	1.73	
CYR61	Cysteine-rich, angiogenic inducer, 61	NM_001554	2.05	
DERL1	Der1-like domain family, member 1	NM_024295	3.23	
DHX57	DEAH (Asp-Glu-Ala-Asp/His) box polypeptide 57, transcript variant 1	NM_198963	4.15	
DIO2	Deiodinase, iodothyronine, type II, transcript variant 1	NM_013989	1.44	
DIO2	Deiodinase, iodothyronine, type II, transcript variant 2	NM_000793	1.44	
DNAJB5	DnaJ (Hsp40) homolog, subfamily B, member 5	NM_012266	2.53	
DNAJC21	DnaJ (Hsp40) homolog, subfamily C, member 21	NM_194283	2.67	

DNCLI2	Dynein, cytoplasmic, light intermediate polypeptide 2	NM_006141	3	
DOCK7	Dedicator of cytokinesis 7	NM_033407	2.3	
DPP10	Dipeptidylpeptidase 10, transcript variant 2	NM_001004360	1.13	
DPP10	Dipeptidylpeptidase 10, transcript variant 1	NM_020868	1.13	
DPYSL2	Dihydropyrimidinase-like 2	NM_001386	2.11	
DTNA	Dystrobrevin, a, transcript variant 3	NM_001391	2.06	
DTNA	Dystrobrevin, a, transcript variant 4	NM_032978	2.06	
DTNA	Dystrobrevin, a, transcript variant 8	NM_032981	2.06	
DTNA	Dystrobrevin, a, transcript variant 5	NM_032979	2.06	
E2F7	E2F transcription factor 7	NM_203394	1.87	
EED	Embryonic ectoderm development, transcript variant 1	NM_003797	3.53	
EED	Embryonic ectoderm development, transcript variant 2	NM_152991	2.24	
EEF1A1	Eukaryotic translation elongation factor 1 a1	NM_001402	3.06	
EGR3	Early growth response 3	NM_004430	1.36	
EIF4A2	Eukaryotic translation initiation factor 4A, isoform 2	NM_001967	2.04	√
EN1	Engrailed homolog 1	NM_001426	3.06	
EN2	Engrailed homolog 2	NM_001427	1.55	
EPC2	Enhancer of polycomb homolog 2 (Drosophila)	NM_015630	4.34	
EPHA4	EPH receptor A4	NM_004438	1.64	
ESM1	Endothelial cell-specific molecule 1	NM_007036	3.95	
ESR1	Estrogen receptor 1	NM_000125	1.94	
ETF1	Eukaryotic translation termination factor 1	NM_004730	1.22	
ETV6	Ets variant gene 6 (TEL oncogene)	NM_001987	1.08	√
EYA1	Eyes absent homolog 1 (Drosophila), transcript variant 3	NM_000503	2.17	
EYA1	Eyes absent homolog 1 (Drosophila), transcript variant 1	NM_172060	2.17	
EYA1	Eyes absent homolog 1 (Drosophila), transcript variant 2	NM_172058	2.17	
EYA1	Eyes absent homolog 1 (Drosophila), transcript variant 4	NM_172059	2.17	
EYA3	Eyes absent homolog 3 (Drosophila), transcript variant 2	NM_172098	6.41	
FAD104	Factor for adipocyte differentiation 104	NM_022763	2.17	
FALZ	Fetal Alzheimer antigen, transcript variant 1	NM_182641	1.27	
FALZ	Fetal Alzheimer antigen, transcript variant 2	NM_004459	1.27	
FAM117A	Family with sequence similarity 117, member A	NM_030802	2.76	
FAM126B	Family with sequence similarity 126, member B	NM_173822	1.07	

FAM222A	Family with sequence similarity 222, member A	NM_032829	3.28	
FBN2	Fibrillin 2 (congenital contractural arachnodactyly)	NM_001999	2.82	
FBXO33	F-box protein 33	NM_203301	7.13	
FKBP1A	FK506 binding protein 1A, 12 kDa, transcript variant 12B	NM_000801	3.45	
FLJ40536	FLJ40536 protein	NM_207424	2.8	
FNDC3	Fibronectin type III domain containing 3	NM_014923	1.08	
FOS	V-fos FBJ murine osteosarcoma viral oncogene homolog	NM_005252	2.14	
FOXP1	Forkhead box P1	NM_032682	5.24	√
GABRA1	γ-Aminobutyric acid (GABA) A receptor, α1	NM_000806	3.39	
GALNT1	UDP-N-acetyl-α-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 1 (GalNAc-T1)	NM_020474	2.91	
GARP	Glycoprotein A repetitions predominant	NM_005512	2.36	
GLS	Glutaminase	NM_014905	4.85	
GOLGA1	Golgi autoantigen, golgin subfamily a, 1	NM_002077	2.68	
GPBP1	GC-rich promoter binding protein 1 (GPBP; SSH6; Vasculin)	NM_022913	4.71	
GPD1L	Glycerol-3-phosphate dehydrogenase 1-like	NM_015141	3.09	
GRIA2	Glutamate receptor, ionotropic, AMPA 2	NM_000826	2.65	
GRIK2	Glutamate receptor, ionotropic, kainate 2, transcript variant 1	NM_021956	8.46	
GRIK2	Glutamate receptor, ionotropic, kainate 2, transcript variant 2	NM_175768	7.55	
GRM5	Glutamate receptor, metabotropic 5	NM_000842	4.23	
HECA	Headcase homolog (Drosophila)	NM_016217	2.82	
HERPUD1	Homocysteine-inducible, endoplasmic reticulum stress-inducible, ubiquitin-like domain member 1	NM_014685	2.35	
HIC2	Hypermethylated in cancer 2	NM_015094	8.66	
HLF	Hepatic leukemia factor	NM_002126	1.43	√
HOXA11	Homeo box A11	NM_005523	2.33	√
HOXB5	Homeo box B5	NM_002147	2.75	
HOXC8	Homeo box C8	NM_022658	5.55	
HSH1N1	HIV-1 induced protein HIN-1, transcript variant 1	NM_199324	3.3	
ID4	Inhibitor of DNA binding 4, dominant negative helix-loop-helix protein	NM_001546	3.07	
IGSF4D	Immunoglobulin superfamily, member 4D	NM_153184	1.77	
IL1A	Interleukin 1, α	NM_000575	3.02	
IMP-2	IGF-II mRNA-binding protein 2	NM_006548	2	
INO80	Homolog of yeast INO80, transcript variant 2	NM_032196	2.35	

INO80	Homolog of yeast INO80, transcript variant 1	NM_017553	2.34	
INPP5A	Inositol polyphosphate-5-phosphatase, 40kDa	NM_005539	2.26	
IRS2	Insulin receptor substrate 2	NM_003749	1.99	
ITGA3	Integrin, a3 (antigen CD49C, alpha 3 subunit of VLA-3 receptor), transcript variant b	NM_005501	3.16	
ITGA3	Integrin, a3 (antigen CD49C, alpha 3 subunit of VLA-3 receptor), transcript variant a	NM_002204	3.1	
ITGB8	Integrin, b8	NM_002214	2.14	
IVNS1ABP	Influenza virus NS1A binding protein, transcript variant 2	NM_016389	1.53	
JARID1A	Jumonji, AT rich interactive domain 1A (RBBP2-like)	NM_005056	3.66	
JAZF1	Juxtaposed with another zinc finger gene 1	NM_175061	1.28	√
JDP2	Jun dimerization protein 2	NM_130469	3.1	
KIAA0182	KIAA0182 protein	NM_014615	2.39	
KIAA0195	KIAA0195 gene product	NM_014738	13.77	
KIAA0252	KIAA0252	NM_015138	2.31	
KIAA0423	KIAA0423	NM_015091	3.06	
KIAA0433	KIAA0433 protein	NM_015216	3.49	
KIAA0528	KIAA0528 gene product	NM_014802	2.51	
KIAA0669	KIAA0669 gene product	NM_014779	1.68	
KIAA0802	KIAA0802	NM_015210	7.25	
KIAA0992	Palladin	NM_016081	2.17	
KIAA1128	KIAA1128	NM_018999	1.36	
KIT	V-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog	NM_000222	3.43	√
KLF15	Kruppel-like factor 15	NM_014079	2.59	
KLHL2	Kelch-like 2, Mayven (Drosophila)	NM_007246	2.14	
KLHL5	Kelch-like 5 (Drosophila), transcript variant b	NM_199039	3.36	
KPNA1	Karyopherin a1 (importin a5)	NM_002264	2.17	
KPNB1	Karyopherin (importin) b1	NM_002265	4.83	
KRAS2	v-Ki-ras2 Kirsten rat sarcoma 2 viral oncogene homolog, transcript variant b	NM_004985	3.09	
KRAS2	v-Ki-ras2 Kirsten rat sarcoma 2 viral oncogene homolog, transcript variant a	NM_033360	3	
LBR	Lamin B receptor, transcript variant 2	NM_194442	1.18	
LBR	Lamin B receptor, transcript variant 1	NM_002296	1.18	
LEMD3	LEM domain containing 3	NM_014319	2.07	
LIN28	Lin-28 homolog (<i>C. elegans</i>)	NM_024674	2.05	

LIN28B	Lin-28 homolog B (<i>C. elegans</i>)	NM_001004317	3.64	
LIN7C	Lin-7 homolog C (<i>C. elegans</i>)	NM_018362	1.04	
LMO1	LIM domain only 1 (rhombotin 1)	NM_002315	4.18	√
LMO3	LIM domain only 3 (rhombotin-like 2), transcript variant 1	NM_018640	2.56	
LMO3	LIM domain only 3 (rhombotin-like 2), transcript variant 2	NM_001001395	2.56	
LONRF1	LON peptidase N-terminal domain and ring finger 1	NM_152271	1.65	
LRBA	LPS-responsive vesicle trafficking, beach and anchor containing	NM_006726	1.85	
LRP12	Low density lipoprotein-related protein 12	NM_013437	1.4	
LRRC5	Leucine rich repeat containing 5	NM_018103	6.25	
LRRN1	Leucine rich repeat neuronal 1	NM_020873	1.84	
MAK3	Mak3 homolog (<i>S. cerevisiae</i>)	NM_025146	1.31	
MAMDC2	MAM domain containing 2	NM_153267	3.04	
MAP1A	Microtubule-associated protein 1A	NM_002373	4.2	
MAP1B	Microtubule-associated protein 1B, transcript variant 2	NM_032010	1.54	
MAP1B	Microtubule-associated protein 1B, transcript variant 1	NM_005909	1.54	
MAP3K10	Mitogen-activated protein kinase kinase kinase 10	NM_002446	4.57	
MAP3K3	Mitogen-activated protein kinase kinase kinase 3, transcript variant 1	NM_203351	2.46	
MAP3K3	Mitogen-activated protein kinase kinase kinase 3, transcript variant 2	NM_002401	2.46	
MB21D2	Mab-21 domain containing 2	NM_178496	2.29	
MBNL2	Muscleblind-like 2 (<i>Drosophila</i>), transcript variant 3	NM_207304	0.97	
MBNL2	Muscleblind-like 2 (<i>Drosophila</i>), transcript variant 1	NM_144778	0.95	
MEAF6	MYST/Esa1-associated factor 6	NM_022756	1.93	
MECP2	Methyl CpG binding protein 2 (Rett syndrome)	NM_004992	0.46	
MFSD6	Major facilitator superfamily domain containing 6	NM_017694	2.3	
MINK	Misshapen/NIK-related kinase, transcript variant 1	NM_015716	3.86	
MINK	Misshapen/NIK-related kinase, transcript variant 3	NM_153827	3.86	
MINK	Misshapen/NIK-related kinase, transcript variant 2	NM_170663	3.86	
MIR4697HG	MIR4697 host gene (non-protein coding)	NM_001001873	2.23	
MMP14	Matrix metalloproteinase 14 (membrane-inserted)	NM_004995	6.18	
MPP5	Membrane protein, palmitoylated 5 (MAGUK p55 subfamily member 5)	NM_022474	4.99	

MTCH2	Mitochondrial carrier homolog 2 (<i>C. elegans</i>), nuclear gene encoding mitochondrial protein	NM_014342	1.72	
MTPN	Myotrophin	NM_145808	0.82	
MTURN	Maturin, neural progenitor differentiation regulator homolog (Xenopus) (Ells1; C7orf41)	NM_152793	2.49	
MYCN	V-myc myelocytomatosis viral related oncogene, neuroblastoma derived (avian)	NM_005378	2.02	√
MYH10	Myosin, heavy polypeptide 10, non-muscle	NM_005964	2.08	
NAT5	<i>N</i> -acetyltransferase 5 (ARD1 homolog, <i>S. cerevisiae</i>), transcript variant 2	NM_181527	2.5	
NAT5	<i>N</i> -acetyltransferase 5 (ARD1 homolog, <i>S. cerevisiae</i>), transcript variant 1	NM_016100	2.5	
NAT5	<i>N</i> -acetyltransferase 5 (ARD1 homolog, <i>S. cerevisiae</i>), transcript variant 3	NM_181528	2.48	
NCALD	Neurocalcin delta	NM_032041	3.92	
NCOA2	Nuclear receptor coactivator 2	NM_006540	1.77	√
NIPBL	Nipped-B homolog (Drosophila), transcript variant A	NM_133433	2.86	
NKX2-2	NK2 transcription factor related, locus 2 (Drosophila)	NM_002509	2.68	
NLK	Nemo like kinase	NM_016231	1.14	
NMT2	<i>N</i> -myristoyltransferase 2	NM_004808	5.04	
NOVA1	Neuro-oncological ventral antigen 1, transcript variant 2	NM_006489	3.48	
NOVA1	Neuro-oncological ventral antigen 1, transcript variant 1	NM_002515	3.48	
NPD014	NPD014 protein, transcript variant 1	NM_207035	1.22	
NPEPPS	Aminopeptidase puromycin sensitive	NM_006310	1.83	
NPM1	Nucleophosmin (nucleolar phosphoprotein B23, numatrin)	NM_002520	2.71	
NPM1	Nucleophosmin (nucleolar phosphoprotein B23, numatrin)	NM_199185	2.71	
NPTXR	Neuronal pentraxin receptor, transcript variant 2	NM_058178	3.9	
NPTXR	Neuronal pentraxin receptor, transcript variant 1	NM_014293	3.9	
NR3C1	Nuclear receptor subfamily 3, group C, member 1 (glucocorticoid receptor)	NM_000176	2.1	
NR4A3	Nuclear receptor subfamily 4, group A, member 3, transcript variant 1	NM_006981	2.15	√
NR4A3	Nuclear receptor subfamily 4, group A, member 3, transcript variant 3	NM_173200	2.15	
NR4A3	Nuclear receptor subfamily 4, group A, member 3, transcript variant 2	NM_173198	2.15	
NR6A1	Nuclear receptor subfamily 6, group A, member 1, transcript variant 1	NM_033334	3.54	
NR6A1	Nuclear receptor subfamily 6, group A, member 1, transcript variant 3	NM_033335	3.54	
NR6A1	Nuclear receptor subfamily 6, group A, member 1, transcript variant 2	NM_001489	3.54	
NRXN1	Neurexin 1, transcript variant a	NM_004801	1.57	
NRXN1	Neurexin 1, transcript variant b	NM_138735	1.57	

NSMAF	Neutral sphingomyelinase (N-SMase) activation associated factor	NM_003580	3.78	
OGT	<i>O</i> -linked <i>N</i> -acetylglucosamine (GlcNAc) transferase (UDP- <i>N</i> -acetylglucosamine:polypeptide- <i>N</i> -acetylglucosaminyl transferase), transcript variant 3	NM_003605	1.75	
OGT	<i>O</i> -linked <i>N</i> -acetylglucosamine (GlcNAc) transferase (UDP- <i>N</i> -acetylglucosamine:polypeptide- <i>N</i> -acetylglucosaminyl transferase), transcript variant 2	NM_181673	1.54	
OGT	<i>O</i> -linked <i>N</i> -acetylglucosamine (GlcNAc) transferase (UDP- <i>N</i> -acetylglucosamine:polypeptide- <i>N</i> -acetylglucosaminyl transferase), transcript variant 1	NM_181672	1.54	
OSBPL3	Oxysterol binding protein-like 3, transcript variant 3	NM_145321	10.41	
OSBPL3	Oxysterol binding protein-like 3, transcript variant 2	NM_145320	10.41	
OSBPL3	Oxysterol binding protein-like 3, transcript variant 1	NM_015550	10.41	
OSBPL3	Oxysterol binding protein-like 3, transcript variant 4	NM_145322	10.41	
OSBPL3	Oxysterol binding protein-like 3, transcript variant 5	NM_145323	10.19	
OSBPL3	Oxysterol binding protein-like 3, transcript variant 6	NM_145324	10.19	
OSBPL8	Oxysterol binding protein-like 8, transcript variant 2	NM_001003712	2.61	
OSBPL8	Oxysterol binding protein-like 8, transcript variant 1	NM_020841	2.61	
PAK4	p21(CDKN1A)-activated kinase 4	NM_005884	3.57	
PAM	Peptidylglycine alpha-amidating monooxygenase, transcript variant 4	NM_138822	2.39	
PAM	Peptidylglycine alpha-amidating monooxygenase, transcript variant 1	NM_000919	2.39	
PAM	Peptidylglycine alpha-amidating monooxygenase, transcript variant 3	NM_138821	2.39	
PAM	Peptidylglycine alpha-amidating monooxygenase, transcript variant 2	NM_138766	2.39	
PAPOLG	Poly(A) polymerase g	NM_022894	1.34	
PAWR	PRKC, apoptosis, WT1, regulator	NM_002583	2.67	
PBX3	Pre-B-cell leukemia transcription factor 3	NM_006195	2.02	
PCBP1	Poly(rC) binding protein 1	NM_006196	2.67	
PCDHA1	Protocadherin a1, transcript variant 1	NM_018900	3.41	
PCDHA1	Protocadherin a1, transcript variant 3	NM_031411	3.41	
PCDHA10	Protocadherin a10, transcript variant 1	NM_018901	3.41	
PCDHA10	Protocadherin a10, transcript variant 3	NM_031860	3.41	
PCDHA11	Protocadherin a11, transcript variant 1	NM_018902	3.41	
PCDHA12	Protocadherin a12, transcript variant 1	NM_018903	3.41	

PCDHA13	Protocadherin a13, transcript variant 1	NM_018904	3.41	
PCDHA2	Protocadherin a2, transcript variant 1	NM_018905	3.41	
PCDHA3	Protocadherin a3, transcript variant 1	NM_018906	3.41	
PCDHA4	Protocadherin a4, transcript variant 1	NM_018907	3.41	
PCDHA5	Protocadherin a5, transcript variant 1	NM_018908	3.41	
PCDHA6	Protocadherin a6, transcript variant 3	NM_031849	3.41	
PCDHA6	Protocadherin a6, transcript variant 1	NM_018909	3.41	
PCDHA7	Protocadherin a7, transcript variant 1	NM_018910	3.41	
PCDHA8	Protocadherin a8, transcript variant 1	NM_018911	3.41	
PCDHA9	Protocadherin a9, transcript variant 1	NM_031857	3.41	
PCDHAC1	Protocadherin a subfamily C, 1, transcript variant 1	NM_018898	3.41	
PCDHAC2	Protocadherin a subfamily C, 2, transcript variant 1	NM_018899	3.41	
PCNP	PEST-containing nuclear protein	NM_020357	3.97	
PDE3A	Phosphodiesterase 3A, cGMP-inhibited	NM_000921	2.97	
PDGFRA	Platelet-derived growth factor receptor, a polypeptide	NM_006206	2.45	√
PK4	Pyruvate dehydrogenase kinase, isoenzyme 4	NM_002612	1.88	
PFTK1	PFTAIRE protein kinase 1	NM_012395	2.23	
PHF15	PHD finger protein 15	NM_015288	2.99	
PHF3	PHD finger protein 3	NM_015153	2.03	
PHIP	Peckstrin homology domain interacting protein	NM_017934	4.27	
PHLDA1	Pleckstrin homology-like domain, family A, member 1	NM_007350	2.18	
PHOX2B	Paired-like homeobox 2b	NM_003924	2.03	√
PI4KII	Phosphatidylinositol 4-kinase type II	NM_018425	1.75	
PIAS3	Protein inhibitor of activated STAT, 3	NM_006099	2.58	
PIK3R3	Phosphoinositide-3-kinase, regulatory subunit 3 (p55, g)	NM_003629	1.98	
PIP3AP	Phosphatidylinositol-3-phosphate associated protein	NM_019061	6.5	
PKNOX2	PBX/knotted 1 homeobox 2	NM_022062	2.3	
PLAG1	Pleiomorphic adenoma gene 1	NM_002655	2.63	√
PLCL2	Phospholipase C-like 2	NM_015184	4	
PLEKHJ1	Pleckstrin homology domain containing, family J member 1	NM_018049	3.91	
PNRC2	Proline-rich nuclear receptor coactivator 2	NM_017761	2.93	
PPARGC1A	Peroxisome proliferative activated receptor, g, coactivator 1, a	NM_013261	0.58	
PPP1CB	Protein phosphatase 1, catalytic subunit, b isoform, transcript variant 3	NM_206876	1.36	
PPP1CB	Protein phosphatase 1, catalytic subunit, b isoform, transcript variant 1	NM_002709	1.36	

PPP1CB	Protein phosphatase 1, catalytic subunit, b isoform, transcript variant 2	NM_206877	1.34	
PPP1R12B	Protein phosphatase 1, regulatory (inhibitor) subunit 12B, transcript variant 1	NM_002481	5.26	
PPP1R12B	Protein phosphatase 1, regulatory (inhibitor) subunit 12B, transcript variant 2	NM_032105	5.21	
PPP3R1	Protein phosphatase 3 (formerly 2B), regulatory subunit B, 19 kDa, a isoform (calcineurin B, type I)	NM_000945	1.17	
PRDM10	PR domain containing 10, transcript variant 2	NM_199437	0.9	
PRDM10	PR domain containing 10, transcript variant 4	NM_199439	0.9	
PRDM10	PR domain containing 10, transcript variant 3	NM_199438	0.9	
PRDM10	PR domain containing 10, transcript variant 1	NM_020228	0.9	
PRKCD	Protein kinase C, delta, transcript variant 1	NM_006254	3.02	
PRKCD	Protein kinase C, delta, transcript variant 2	NM_212539	3.02	
PRKCE	Protein kinase C, epsilon	NM_005400	3.44	
PSAP	Prosaposin (variant Gaucher disease and variant metachromatic leukodystrophy)	NM_002778	2.53	
PTPN9	Protein tyrosine phosphatase, non-receptor type 9	NM_002833	1.93	
PUM1	Pumilio homolog 1 (Drosophila)	NM_014676	1.36	
PURB	Purine-rich element binding protein B	NM_033224	1.33	
RAB11A	RAB11A, member RAS oncogene family	NM_004663	1.26	
RAB11FIP2	RAB11 family interacting protein 2 (class I)	NM_014904	0.52	
RAD21	RAD21 homolog (<i>S. pombe</i>)	NM_006265	1.37	
RAN	RAN, member RAS oncogene family	NM_006325	3.04	
RAP1B	RAP1B, member of RAS oncogene family	NM_015646	1.58	
RAPH1	Ras association (RalGDS/AF-6) and pleckstrin homology domains 1, transcript variant 1	NM_213589	2.65	
RBM22	RNA binding motif protein 22	NM_018047	3.3	
RBM47	RNA binding motif protein 47	NM_019027	4.67	
RECK	Reversion-inducing-cysteine-rich protein with kazal motifs	NM_021111	1.6	
RFP2	Ret finger protein 2, transcript variant 2	NM_052811	1.3	
RFP2	Ret finger protein 2, transcript variant 1	NM_005798	1.3	
RFP2	Ret finger protein 2, transcript variant 3	NM_213590	1.3	
RGMA	RGM domain family, member A	NM_020211	4.62	
RKHD2	Ring finger and KH domain containing 2	NM_016626	2.92	
RKHD3	Ring finger and KH domain containing 3	NM_032246	1.54	
RLF	Rearranged L-myc fusion sequence	NM_012421	6.16	

RNF110	Ring finger protein 110	NM_007144	3.77	
RNF145	Ring finger protein 145	NM_144726	3.02	
RNF182	Ring finger protein 182	NM_152737	3.66	
RNF2	Ring finger protein 2	NM_007212	0.9	
RNF34	Ring finger protein 34, transcript variant 2	NM_025126	3.7	
RNF34	Ring finger protein 34, transcript variant 1	NM_194271	3.7	
RP42	RP42 homolog	NM_020640	2.2	
RRAGA	Ras-related GTP binding A	NM_006570	2.9	
RSN	Restin (Reed-Steinberg cell-expressed intermediate filament-associated protein), transcript variant 1	NM_002956	5.5	
RSN	Restin (Reed-Steinberg cell-expressed intermediate filament-associated protein), transcript variant 2	NM_198240	5.5	
RSPO2	R-spondin 2	NM_178565	2.41	
RUNX1	Runt-related transcription factor 1 (acute myeloid leukemia 1; aml1 oncogene), transcript variant 1	NM_001754	1.8	√
RUNX1	Runt-related transcription factor 1 (acute myeloid leukemia 1; aml1 oncogene), transcript variant 2	NM_001001890	1.8	
S100BPB	S100P binding protein	NM_022753	2.18	
SCHIP1	Schwannomin interacting protein 1	NM_014575	2.37	
SDF2L1	Stromal cell-derived factor 2-like 1	NM_022044	4.54	
SDFR1	Stromal cell derived factor receptor 1, transcript variant b	NM_012428	1.75	
SDFR1	Stromal cell derived factor receptor 1, transcript variant a	NM_017455	1.75	
SEC24C	SEC24 related gene family, member C (<i>S. cerevisiae</i>), transcript variant 1	NM_004922	2.32	
SEC24C	SEC24 related gene family, member C (<i>S. cerevisiae</i>), transcript variant 2	NM_198597	2.32	
SEL1L	Sel-1 suppressor of lin-12-like (<i>C. elegans</i>)	NM_005065	2.97	
SEMA4C	Sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4C	NM_017789	2.76	
SEMA4G	Sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4G	NM_017893	5.88	
SENP1	SUMO1/sentrin specific protease 1	NM_014554	3.68	
SENP7	SUMO1/sentrin specific protease 7	NM_020654	1.19	
SEPT3	Septin 3, transcript variant A	NM_145733	5.79	
SEPT3	Septin 3, transcript variant C	NM_145734	5.15	
SEPT3	septin 3, transcript variant B	NM_019106	3.37	

SERPINB5	Serine (or cysteine) proteinase inhibitor, clade B (ovalbumin), member 5	NM_002639	2.28	
SF3B1	Splicing factor 3b, subunit 1, 155 kDa, transcript variant 1	NM_012433	2.79	
SFRS7	Splicing factor, arginine/serine-rich 7, 35 kDa	NM_006276	1.99	
SH2D3C	SH2 domain containing 3C	NM_170600	4.21	
SIAT8D	Sialyltransferase 8D (a-2, 8-polysialyltransferase), transcript variant 1	NM_005668	1.31	
SIRT1	Sirtuin (silent mating type information regulation 2 homolog) 1 (<i>S. cerevisiae</i>)	NM_012238	3.91	
SIX2	Sine oculis homeobox homolog 2 (Drosophila)	NM_016932	3.37	
SLAIN1	SLAIN motif family, member 1	NM_144595	1.87	
SLC25A25	Solute carrier family 25 (mitochondrial carrier; phosphate carrier), member 25	NM_052901	3.28	
SLC25A3	Solute carrier family 25 (mitochondrial carrier; phosphate carrier), member 3, nuclear gene encoding mitochondrial protein, transcript variant 4	NM_213612	1.65	
SLC31A1	Solute carrier family 31 (copper transporters), member 1	NM_001859	0.87	
SLC38A2	Solute carrier family 38, member 2	NM_018976	0.87	
SLC39A12	Solute carrier family 39 (zinc transporter), member 12	NM_152725	2.58	
SLC9A6	Solute carrier family 9 (sodium/hydrogen exchanger), isoform 6	NM_006359	1.77	
SLITRK1	SLIT and NTRK-like family, member 1	NM_052910	1.51	
SLITRK2	SLIT and NTRK-like family, member 2	NM_032539	1.93	
SLITRK3	SLIT and NTRK-like family, member 3	NM_014926	2.03	
SMAD7	SMAD, mothers against DPP homolog 7 (Drosophila)	NM_005904	2.03	
SNN	Stannin	NM_003498	1.62	
SON	SON DNA binding protein, transcript variant g	NM_003103	1.85	
SON	SON DNA binding protein, transcript variant a	NM_138925	1.83	
SON	SON DNA binding protein, transcript variant f	NM_138927	1.79	
SON	SON DNA binding protein, transcript variant c	NM_138926	1.52	
SON	SON DNA binding protein, transcript variant e	NM_058183	1.24	
SOWAHA	Sosondawah ankyrin repeat domain family member A	NM_175873	3.57	
SOX5	SRY (sex determining region Y)-box 5, transcript variant 2	NM_152989	2.29	
SOX5	SRY (sex determining region Y)-box 5, transcript variant 3	NM_178010	2.29	
SOX5	SRY (sex determining region Y)-box 5, transcript variant 1	NM_006940	2.29	
SOX6	SRY (sex determining region Y)-box 6	NM_033326	5.47	
SPRY4	Sprouty homolog 4 (Drosophila)	NM_030964	1.16	

SS18L1	Synovial sarcoma translocation gene on chromosome 18-like 1, transcript variant 2	NM_015558	3.67	√
SS18L1	Synovial sarcoma translocation gene on chromosome 18-like 1, transcript variant 1	NM_198935	3.17	
SSX2IP	Synovial sarcoma, X breakpoint 2 interacting protein	NM_014021	1.44	
STC1	Stanniocalcin 1	NM_003155	1.26	
STRBP	Spermatid perinuclear RNA binding protein	NM_018387	2.52	
SUHW4	Suppressor of hairy wing homolog 4 (Drosophila), transcript variant 1	NM_017661	1.44	
SUHW4	Suppressor of hairy wing homolog 4 (Drosophila), transcript variant 2	NM_001002843	1.44	
SYNE1	Spectrin repeat containing, nuclear envelope 1, transcript variant b	NM_015293	2.72	
SYNE1	Spectrin repeat containing, nuclear envelope 1, transcript variant longest	NM_182961	2.72	
SYNE1	Spectrin repeat containing, nuclear envelope 1, transcript variant a	NM_133650	2.72	
SYNE1	Spectrin repeat containing, nuclear envelope 1, transcript variant longer	NM_033071	2.42	
SYNPR	Synaptoporin	NM_144642	2.43	
TAB3	TAK1-binding protein 3, transcript variant 2	NM_198312	1.92	
TAB3	TAK1-binding protein 3, transcript variant 1	NM_152787	1.92	
TAF5	TAF5 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 100 kDa	NM_006951	2.08	
TAF9L	TAF9-like RNA polymerase II, TATA box binding protein (TBP)-associated factor, 31 kDa	NM_015975	2.4	
TARDBP	TAR DNA binding protein	NM_007375	5.03	
TARSH	Target of Nesh-SH3	NM_015429	6.31	
TBC1D1	TBC1 (tre-2/USP6, BUB2, cdc16) domain family, member 1	NM_015173	2.69	
TBDN100	Transcriptional coactivator tubedown-100, transcript variant 1	NM_057175	0.89	
TCERG1	Transcription elongation regulator 1	NM_006706	5.41	
TMEM28	Transmembrane protein 28	NM_015686	2.16	
TNFSF11	Tumor necrosis factor (ligand) superfamily, member 11, transcript variant 1	NM_003701	1.5	
TNFSF11	Tumor necrosis factor (ligand) superfamily, member 11, transcript variant 2	NM_033012	1.5	
TOM1L1	Target of myb1-like 1 (chicken)	NM_005486	3.83	
TOX	Thymus high mobility group box protein TOX	NM_014729	1.07	
TRIM2	Tripartite motif-containing 2	NM_015271	4.78	
TRIM39	Tripartite motif-containing 39, transcript variant 2	NM_172016	2.29	
TRIM39	Tripartite motif-containing 39, transcript variant 1	NM_021253	2.29	

TRIM9	Tripartite motif-containing 9, transcript variant 2	NM_052978	2.73	
TULP4	Tubby like protein 4, transcript variant 1	NM_020245	2.38	
TXNDC7	Thioredoxin domain containing 7 (protein disulfide isomerase)	NM_005742	2.23	
UBP1	Upstream binding protein 1 (LBP-1a)	NM_014517	3.28	
USP33	Ubiquitin specific protease 33, transcript variant 2	NM_201624	1.6	
USP33	Ubiquitin specific protease 33, transcript variant 1	NM_015017	1.6	
VIK	Vav-1 interacting Kruppel-like protein, transcript variant 1	NM_138494	4.11	
WDR20	WD repeat domain 20, transcript variant 3	NM_181308	2.25	
WDR20	WD repeat domain 20, transcript variant 4	NM_181302	2.25	
WDR20	WD repeat domain 20, transcript variant 2	NM_144574	2.25	
WDR37	WD repeat domain 37	NM_014023	4.68	
WNT11	Wingless-type MMTV integration site family, member 11	NM_004626	3.2	
WSB1	WD repeat and SOCS box-containing 1, transcript variant 1	NM_015626	1.59	
WSB1	WD repeat and SOCS box-containing 1, transcript variant 2	NM_134265	1.59	
WSB1	WD repeat and SOCS box-containing 1, transcript variant 3	NM_134264	0.65	
YT521	Splicing factor YT521-B	NM_133370	1.99	
YTHDF2	YTH domain family, member 2	NM_016258	1.91	
YTHDF3	YTH domain family, member 3	NM_152758	5.73	
YWHAG	Tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, g polypeptide	NM_012479	2.05	
ZA20D2	Zinc finger, A20 domain containing 2	NM_006007	3.24	
ZA20D3	Zinc finger, A20 domain containing 3	NM_019006	1.95	
ZBTB4	Zinc finger and BTB domain containing 4	NM_020899	8.24	
ZC3HDC6	Zinc finger CCCH type domain containing 6	NM_198581	1.21	
ZDHHC3	Zinc finger, DHHC domain containing 3	NM_016598	2.11	
ZDHHC7	Zinc finger, DHHC domain containing 7	NM_017740	1.96	
ZF	HCF-binding transcription factor Zhangfei	NM_021212	1.21	
ZFP36L1	Zinc finger protein 36, C3H type-like 1	NM_004926	1.77	
ZIC1	Zic family member 1 (odd-paired homolog, Drosophila)	NM_003412	2.02	
ZIC2	Zic family member 2 (odd-paired homolog, Drosophila)	NM_007129	5.97	
ZIC3	Zic family member 3 heterotaxy 1 (odd-paired homolog, Drosophila)	NM_003413	1.05	
ZNF207	Zinc finger protein 207	NM_003457	2.29	
ZNF281	Zinc finger protein 281	NM_012482	2.16	
ZNF533	Zinc finger protein 533	NM_152520	2.01	

ZNF800	Zinc finger protein 800	NM_176814	1.44	
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Supplementary Table 11. Predicted targets of hsa-miR-181a-5p by MicroCosm Targets.

Gene symbol	Full name	Cancer gene	Score	Energy	P value	Length	Total sites	No. of cons species	No. miRNAs
ABI2	Abl interactor 2 (Abelson interactor 2) (Abi-2) (Abl-binding protein 3) (AblBP3) (Arg-binding protein 1) (ArgBP1)		15.947	-15.11	0.0001772	1000	22	7	32 [+]
ACSL1	Long-chain-fatty-acid--CoA ligase 1 (EC 6.2.1.3) (Long-chain acyl-CoA synthetase 1) (LACS 1) (Palmitoyl-CoA ligase 1) (Long-chain fatty acid CoA ligase 2) (Long-chain acyl-CoA synthetase 2) (LACS 2) (Acyl-CoA synthetase 1) (ACS1) (Palmitoyl-CoA ligase 2)		15.763	-18.74	0.0146172	1529	6	5	7 [+]
ACTA2	Actin, aortic smooth muscle (Alpha-actin-2) (Cell growth-inhibiting gene 46 protein)		17.988	-12.29	0.00642642	149	8	6	33 [+]
ACTA2	Actin, aortic smooth muscle (Alpha-actin-2) (Cell growth-inhibiting gene 46 protein)		17.988	-12.29	0.00818827	108	4	1	12 [+]
ACTG1	Actin, cytoplasmic 2 (Gamma-actin)		16.29	-18	0.0404966	717	22	6	43 [+]
ACTN2	α -Actinin-2 (Alpha actinin skeletal muscle isoform 2) (F-actin cross-linking protein)		15.314	-18.96	0.00977434	2012	4	2	4 [+]
ACVRL1	Serine/threonine-protein kinase receptor R3 precursor (EC 2.7.11.30) (SKR3) (Activin receptor-like kinase 1) (ALK-1) (TGF-B superfamily receptor type I) (TSR-I)		16.178	-17.78	0.0449427	176	8	4	42 [+]

ACYPI	Acylphosphatase-1 (EC 3.6.1.7) (Acylphosphate phosphohydrolase 1) (Acylphosphatase, organ-common type isozyme) (Acylphosphatase, erythrocyte isozyme)	18.327	-15.47	0.00108159	217	12	5	49 [+]
ADA	Adenosine deaminase (EC 3.5.4.4) (Adenosine aminohydrolase)	15.994	-15.6	0.00416595	312	18	8	53 [+]
ADAMTS18	ADAMTS-18 precursor (EC 3.4.24.-) (A disintegrin and metalloproteinase with thrombospondin motifs 18) (ADAM-TS 18) (ADAM-TS18)	15.322	-14.05	0.00885784	1425	14	7	20 [+]
ADAMTS6	ADAMTS-6 precursor (EC 3.4.24.-) (A disintegrin and metalloproteinase with thrombospondin motifs 6) (ADAM-TS 6) (ADAM-TS6)	16.065	-14.8	0.048693	244	13	1	41 [+]
ADCK1	Uncharacterized aarF domain- containing protein kinase 1 precursor (EC 2.7.-.-)	15.851	-16.18	3.24E-05	560	23	4	61 [+]
ADMR	Adrenomedullin receptor (AM-R)	16.065	-11	0.0499184	260	14	3	63 [+]
ADORA2B	Adenosine A _{2b} receptor. [Source:Uniprot/SWISSPROT;Acc:P 29275]	15.763	-18.82	0.00017062	554	18	5	58 [+]
ADORA3	Adenosine A ₃ receptor. [Source:Uniprot/SWISSPROT;Acc:P 33765]	18.089	-21.07	0.00743839	337	14	1	34 [+]
ADORA3	Adenosine A ₃ receptor. [Source:Uniprot/SWISSPROT;Acc:P 33765]	18.077	-21.87	0.00752305	339	14	1	34 [+]

ADORA3	Adenosine A3 receptor. [Source:Uniprot/SWISSPROT;Acc:P33765]		17.402	-21.07	0.0142515	480	12	1	21 [+]
ADRA1A	A _{1α} -Adrenergic receptor (Alpha 1A-adrenoceptor) (Alpha 1A-adrenoreceptor) (Alpha-1C adrenergic receptor) (Alpha adrenergic receptor 1c). [Source:Uniprot/SWISSPROT;Acc:P35348]		16.053	-19.29	0.0492142	467	14	1	22 [+]
AGT	Angiotensinogen precursor (Serpine A8) [Contains: Angiotensin-1 (Angiotensin I) (Ang I); Angiotensin-2 (Angiotensin II) (Ang II); Angiotensin-3 (Angiotensin III) (Ang III) (Des-Asp[1]-angiotensin II)]		16.315	-13.8	0.0395694	618	21	5	35 [+]
AIFM1	Apoptosis-inducing factor 1, mitochondrial precursor (EC 1.-.-.-) (Programmed cell death protein 8)		15.725	-14.05	0.0152111	195	10	7	44 [+]
AIM1L	Absent in melanoma 1-like		17.649	-13.34	0.01129	229	13	1	47 [+]
AIM1L	Absent in melanoma 1-like		17.649	-13.34	0.01129	91	4	1	20 [+]
AKAP4	A-kinase anchor protein 4 precursor (Protein kinase A-anchoring protein 4) (PRKA4) (A-kinase anchor protein 82 kDa) (AKAP 82) (hAKAP82) (Major sperm fibrous sheath protein) (HI)		16.97	-13.37	0.00257364	197	10	6	37 [+]

AKAP4	A-kinase anchor protein 4 precursor (Protein kinase A-anchoring protein 4) (PRKA4) (A-kinase anchor protein 82 kDa) (AKAP 82) (hAKAP82) (Major sperm fibrous sheath protein) (HI)		16.97	-13.37	0.0214202	183	9	1	24 [+]
AKAP9	A-kinase anchor protein 9 (Protein kinase A-anchoring protein 9) (PRKA9) (A-kinase anchor protein 450 kDa) (AKAP 450) (A-kinase anchor protein 350 kDa) (AKAP 350) (hgAKAP 350) (AKAP 120-like protein) (Protein hyperion) (Protein yotiao) (Centrosome- and Go		16.735	-12.86	0.0267082	516	18	1	32 [+]
ALS2CR12	Amyotrophic lateral sclerosis 2 chromosomal region candidate gene 12 protein		16.293	-14.91	0.0403657	383	21	4	53 [+]
AMOT	Angiomotin		15.732	-24.81	8.72E-05	1000	13	3	16 [+]
ANKRD10	Ankyrin repeat domain-containing protein 10		17.694	-18.18	0.0108157	647	13	1	18 [+]
ANKRD22	Ankyrin repeat domain-containing protein 22. [Source:Uniprot/SWISSPROT;Acc:Q5VYY1]		16.067	-22.13	0.00295909	809	19	3	28 [+]
ANXA6	Annexin A6 (Annexin VI) (Lipocortin VI) (P68) (P70) (Protein III) (Chromobindin-20) (67 kDa calelectrin) (Calphobindin-II) (CPB-II). [Source:Uniprot/SWISSPROT;Acc:P08133]		15.673	-18.43	0.00494877	741	15	7	21 [+]

AP2A2	AP-2 complex subunit alpha-2 (Adapter-related protein complex 2 alpha- 2 subunit) (Alpha-adaptin C) (Adaptor protein complex AP-2 alpha-2 subunit) (Clathrin assembly protein complex 2 alpha-C large chain) (100 kDa coated vesicle protein C) (Plasma membran [Source:Uniprot/SWISSPROT;Acc:O94973]		15.586	-24.31	0.00951074	1615	12	4	12 [+]
APBB1IP	Amyloid beta A4 precursor protein-binding family B member 1-interacting protein (APBB1-interacting protein 1) (Rap1-GTP-interacting adapter molecule) (RIAM) (Proline-rich EVH1 ligand 1) (PREL-1) (Proline-rich protein 73) (Retinoic acid-responsive prolin [Source:Uniprot/SWISSPROT;Acc:Q7Z5R6]		16.764	-17.87	0.0182914	315	15	6	51 [+]
APIP	APAF1-interacting protein. [Source:Uniprot/SWISSPROT;Acc:Q96GX9]		16.461	-20.74	0.0345263	419	16	3	33 [+]
APOO	Apolipoprotein O precursor (Protein FAM121B). [Source:Uniprot/SWISSPROT;Acc:Q9BUR5]		18.214	-13.69	0.00016631	289	12	3	41 [+]
APOO	Apolipoprotein O precursor (Protein FAM121B). [Source:Uniprot/SWISSPROT;Acc:Q9BUR5]		18.214	-13.69	0.00660821	278	12	1	33 [+]

AQP11	Aquaporin-11 (AQP-11). [Source:Uniprot/SWISSPROT;Acc:Q8NBQ7]		15.725	-16.54	0.0003342	269	17	6	80 [+]
AQP9	Aquaporin-9 (AQP-9) (Small solute channel 1). [Source:Uniprot/SWISSPROT;Acc:O43315]		16.13	-22.94	0.00100693	1775	12	5	12 [+]
AQR	Intron-binding protein aquarius (Intron-binding protein of 160 kDa) (IBP160). [Source:Uniprot/SWISSPROT;Acc:O60306]		16.59	-13.87	0.00045265	440	18	4	43 [+]
ARD1A	N-terminal acetyltransferase complex ARD1 subunit homolog A (EC 2.3.1.88) (EC 2.3.1.-). [Source:Uniprot/SWISSPROT;Acc:P41227]		16.515	-17.62	0.00384449	745	21	3	31 [+]
ARHGAP19	Slit homolog 1 protein precursor (Slit-1) (Multiple epidermal growth factor-like domains 4). [Source:Uniprot/SWISSPROT;Acc:O75093]		16.291	-12.79	0.0404523	219	6	1	21 [+]
ARL17P1	ADP-ribosylation factor-like protein 17 (ADP-ribosylation factor 7 variant). [Source:Uniprot/SWISSPROT;Acc:Q8IVW1]		16.428	-9.94	0.00341181	647	13	1	21 [+]
ARMCX2	Armadillo repeat-containing X-linked protein 2 (Protein ALEX2) (ARM protein lost in epithelial cancers on chromosome X 2). [Source:Uniprot/SWISSPROT;Acc:Q7L311]		16.198	-16.74	0.00448938	404	19	1	44 [+]

ARMCX2	Armadillo repeat-containing X-linked protein 2 (Protein ALEX2) (ARM protein lost in epithelial cancers on chromosome X 2). [Source:Uniprot/SWISSPROT;Acc:Q7L311]		16.176	-16.74	0.00465265	409	20	5	61 [+]
ARNT2	Aryl hydrocarbon receptor nuclear translocator 2 (ARNT protein 2). [Source:Uniprot/SWISSPROT;Acc:Q9HBZ2]		16.065	-12.65	0.0499206	1000	15	1	20 [+]
ARPC1A	Actin-related protein 2/3 complex subunit 1A (SOP2-like protein). [Source:Uniprot/SWISSPROT;Acc:Q92747]		17.309	-8.23	0.00533873	333	18	6	54 [+]
ARPC1B	Actin-related protein 2/3 complex subunit 1B (ARP2/3 complex 41 kDa subunit) (p41-ARC). [Source:Uniprot/SWISSPROT;Acc:O15143]		17.083	-13.26	0.00117999	287	15	7	69 [+]
ARRB2	β -Arrestin-2 (Arrestin beta 2). [Source:Uniprot/SWISSPROT;Acc:P32121]		15.536	-12.03	0.0148215	461	17	3	35 [+]
ARSJ	Arylsulfatase family, member J (ARSJ), mRNA [Source:RefSeq_dna;Acc:NM_024590]		16.172	-14.96	1.02E-05	1000	17	4	22 [+]
ASB9	Ankyrin repeat and SOCS box protein 9 (ASB-9). [Source:Uniprot/SWISSPROT;Acc:Q96DX5]		15.872	-10.66	0.00347314	519	18	4	39 [+]

ATG10	Autophagy-related protein 10 (APG10-like). [Source:Uniprot/SWISSPROT;Acc:Q9H0Y0]		16.38	-17.11	0.0372146	886	12	1	20 [+]
ATG5	Autophagy protein 5 (APG5-like) (Apoptosis-specific protein). [Source:Uniprot/SWISSPROT;Acc:Q9H1Y0]		15.602	-17.27	4.94E-05	2064	9	2	8 [+]
ATG5	Autophagy protein 5 (APG5-like) (Apoptosis-specific protein). [Source:Uniprot/SWISSPROT;Acc:Q9H1Y0]		15.49	-17.27	0.00342499	2231	5	1	4 [+]
ATP11C	Probable phospholipid-transporting ATPase IG (EC 3.6.3.1) (ATPase class I type 11C) (ATPase IG) (ATPase IQ) (ATPase class VI type 11C). [Source:Uniprot/SWISSPROT;Acc:Q8NB49]		16.565	-12.07	0.0308263	1000	9	1	12 [+]
ATP1B2	Sodium/potassium-transporting ATPase subunit beta-2 (Sodium/potassium- dependent ATPase beta-2 subunit). [Source:Uniprot/SWISSPROT;Acc:P14415]		15.666	-13.02	0.018542	1874	7	2	5 [+]
ATP5J	ATP synthase coupling factor 6, mitochondrial precursor (EC 3.6.3.14) (ATPase subunit F6). [Source:Uniprot/SWISSPROT;Acc:P18859]		17.875	-18.3	0.00911416	159	10	2	34 [+]

ATPAF2	ATP synthase mitochondrial F1 complex assembly factor 2, mitochondrial precursor (ATP12 homolog). [Source:Uniprot/SWISSPROT;Acc:Q8N5M1]		16.957	-21.97	0.021674	484	25	5	60 [+]
AUTS2	Autism susceptibility gene 2 protein. [Source:Uniprot/SWISSPROT;Acc:Q8WXX7]		15.944	-12.69	0.00242828	1000	24	7	30 [+]
AYTL1	Acyltransferase-like 1 (EC 2.3.1.-). [Source:Uniprot/SWISSPROT;Acc:Q7L5N7]		15.612	-12.93	0.00027272	139	8	5	32 [+]
B3GALT5	β -1,3-Galactosyltransferase 5 (EC 2.4.1.-) (Beta-1,3-GalTase 5) (Beta3Gal-T5) (b3Gal-T5) (UDP-galactose:beta-N-acetylglucosamine beta- 1,3-galactosyltransferase 5) (UDP-Gal:beta-GlcNAc beta-1,3-galactosyltransferase 5) (Beta-3-Gx-T5). [Source:Uniprot/SWISSPROT;Acc:Q9Y2C3]		15.943	-19.78	0.00243292	1397	15	3	18 [+]
B3GALT5	β 1,3-Galactosyltransferase 5 (EC 2.4.1.-) (Beta-1,3-GalTase 5) (Beta3Gal-T5) (b3Gal-T5) (UDP-galactose:beta-N-acetylglucosamine beta- 1,3-galactosyltransferase 5) (UDP-Gal:beta-GlcNAc beta-1,3-galactosyltransferase 5) (Beta-3-Gx-T5). [Source:Uniprot/SWISSPROT;Acc:Q9Y2C3]		15.944	-19.78	0.00248532	1396	11	1	13 [+]

BAI3	Brain-specific angiogenesis inhibitor 3 precursor. [Source:Uniprot/SWISSPROT;Acc:O60242]		15.473	-11	0.00040377	620	22	10	53 [+]
BARD1	BRCA1-associated RING domain protein 1 (BARD-1). [Source:Uniprot/SWISSPROT;Acc:Q99728]		16.178	-13.5	0.00715141	106	6	6	27 [+]
BBS9	Protein PTHB1 (Parathyroid hormone-responsive B1 gene protein) (Bardet-Biedl syndrome 9 protein). [Source:Uniprot/SWISSPROT;Acc:Q3SYG4]		17.222	-19.54	0.00673739	842	21	4	30 [+]
BCHE	Cholinesterase precursor (EC 3.1.1.8) (Acylcholine acylhydrolase) (Choline esterase II) (Butyrylcholine esterase) (Pseudocholinesterase). [Source:Uniprot/SWISSPROT;Acc:P06276]		16.016	-10.67	0.00669823	477	20	4	30 [+]
BCL11A	B-cell lymphoma/leukemia 11A (B-cell CLL/lymphoma 11A) (COUP-TF-interacting protein 1) (Ecotropic viral integration site 9 protein homolog) (EVI-9). [Source:Uniprot/SWISSPROT;Acc:Q9H165]		16.614	-25.7	0.0299045	1000	8	1	12 [+]
BDKRB1	B1 bradykinin receptor (BK-1 receptor) (B1R). [Source:Uniprot/SWISSPROT;Acc:P46663]		16.31	-16.27	0.00284635	1000	19	3	23 [+]

BEX2	Protein BEX2 (Brain-expressed X-linked protein 2) (hBex2). [Source:Uniprot/SWISSPROT;Acc:Q9BXY8]	16.63	-13.19	0.0294592	244	13	3	42 [+]
BMS1	Ribosome biogenesis protein BMS1 homolog. [Source:Uniprot/SWISSPROT;Acc:Q14692]	15.768	-19.07	0.00034599	312	18	6	64 [+]
BRAP	BRCA1-associated protein (EC 6.3.2.-) (BRAP2) (Impedes mitogenic signal propagation) (IMP) (RING finger protein 52) (Renal carcinoma antigen NY-REN-63). [Source:Uniprot/SWISSPROT;Acc:Q7Z569]	15.491	-11.99	0.00657215	505	21	6	53 [+]
BRD1	Bromodomain-containing protein 1 (BR140-like protein). [Source:Uniprot/SWISSPROT;Acc:O95696]	15.814	-16.96	3.33E-05	949	22	5	36 [+]
BRD7	Bromodomain-containing protein 7 (75 kDa bromodomain protein) (Protein CELTIX-1). [Source:Uniprot/SWISSPROT;Acc:Q9NPI1]	17.083	-20.47	0.0168063	173	10	6	35 [+]
BRWD1	Bromodomain and WD repeat domain-containing protein 1 (WD repeat protein 9). [Source:Uniprot/SWISSPROT;Acc:Q9NSI6]	16.185	-16.13	0.0446593	1548	3	1	3 [+]
BTBD10	BTB/POZ domain-containing protein 10. [Source:Uniprot/SWISSPROT;Acc:Q9BSF8]	16.499	-18.48	0.0333162	817	21	4	27 [+]

BTLA	B- and T-lymphocyte attenuator precursor (B- and T-lymphocyte-associated protein) (CD272 antigen). [Source:Uniprot/SWISSPROT;Acc:Q7Z6A9]		16.178	-16.27	0.0439477	181	10	3	38 [+]
BTN3A3	Butyrophilin subfamily 3 member A3 precursor. [Source:Uniprot/SWISSPROT;Acc:O00478]		16.138	-20.54	0.0466225	1003	10	1	11 [+]
BTN3A3	Butyrophilin subfamily 3 member A3 precursor. [Source:Uniprot/SWISSPROT;Acc:O00478]		16.125	-20.54	0.0471826	1011	10	1	11 [+]
BUD13	BUD13 homolog [Source:RefSeq_peptide;Acc:NP_116114]		16.178	-16.42	0.00148543	312	16	6	96 [+]
BUD13	BUD13 homolog [Source:RefSeq_peptide;Acc:NP_116114]		16.178	-16.42	0.0449427	305	14	1	61 [+]
C10orf128	Novel protein. [Source:Uniprot/SPTREMBL;Acc:Q5T291]		16.827	-15.12	0.0244905	1000	5	1	7 [+]
C10orf128	Novel protein. [Source:Uniprot/SPTREMBL;Acc:Q5T291]		16.239	-15.12	0.0424655	1530	6	1	6 [+]
C10orf61	Tectonic-3 precursor. [Source:Uniprot/SWISSPROT;Acc:Q6NUS6]		15.922	-18.04	0.0136914	648	19	5	35 [+]
C10orf68	Coiled-coil domain-containing protein 7. [Source:Uniprot/SWISSPROT;Acc:Q96M83]		16.753	-20.83	0.00557244	357	19	3	48 [+]

C10orf68	Coiled-coil domain-containing protein 7. [Source:Uniprot/SWISSPROT;Acc:Q96M83]		16.692	-20.83	0.0274234	369	18	1	39 [+]
C10orf73	Uncharacterized protein C10orf73 (Fragment). [Source:Uniprot/SPTREMBL;Acc:Q86WY6]		16.646	-18.44	0.0240795	453	18	4	42 [+]
C10orf73	Uncharacterized protein C10orf73 (Fragment). [Source:Uniprot/SPTREMBL;Acc:Q86WY6]		16.623	-18.44	0.0296755	459	18	1	30 [+]
C10orf78	Uncharacterized protein C10orf78. [Source:Uniprot/SWISSPROT;Acc:Q86XK3]		16.092	-10.79	0.00039442	678	16	3	28 [+]
C10orf78	Uncharacterized protein C10orf78. [Source:Uniprot/SWISSPROT;Acc:Q86XK3]		16.084	-10.79	0.0490222	681	10	1	16 [+]
C10orf79	Novel protein. [Source:Uniprot/SPTREMBL;Acc:Q5TA04]		15.386	-11.19	0.0078167	250	15	5	49 [+]
C10orf90	Uncharacterized protein C10orf90. [Source:Uniprot/SWISSPROT;Acc:Q96M02]		16.065	-19.85	0.048693	125	6	1	23 [+]
C11orf56	Uncharacterized protein C11orf56. [Source:Uniprot/SWISSPROT;Acc:Q8N612]		17.083	-15.94	0.00108592	159	10	7	38 [+]
C11orf69	Uncharacterized protein C11orf69. [Source:Uniprot/SWISSPROT;Acc:Q8TAY4]		16.853	-16.51	0.0239165	1185	10	2	10 [+]

C11orf75	Uncharacterized protein C11orf75 (Protein FN5). [Source:Uniprot/SWISSPROT;Acc:Q9NRQ5]		15.31	-9.63	0.0388469	535	15	2	24 [+]
C12orf51	Uncharacterized protein C12orf51. [Source:Uniprot/SPTREMBL;Acc:Q3MJD5]		15.314	-13.12	0.00084536	571	23	3	39 [+]
C12orf52	CDNA FLJ14827 fis, clone OVARC1000886 (Chromosome 12 open reading frame 52) (CDNA PSEC0043 fis, clone NT2RP1001002). [Source:Uniprot/SPTREMBL;Acc:Q96K30]		16.812	-20.17	0.0248489	1000	10	1	14 [+]
C12orf56	Uncharacterized protein C12orf56 (Fragment). [Source:Uniprot/SPTREMBL;Acc:Q8IXR9]		16.97	-13.59	0.0078384	196	9	4	23 [+]
C14orf135	Uncharacterized protein C14orf135 precursor (Hepatitis C virus F protein-binding protein 2) (HCV F protein-binding protein 2). [Source:Uniprot/SWISSPROT;Acc:Q63HM2]		15.349	-11.54	0.00093684	588	21	5	39 [+]
C14orf178	Uncharacterized protein C14orf178. [Source:Uniprot/SWISSPROT;Acc:Q8N769]		15.838	-7.63	0.00878438	64	5	2	9 [+]
C15orf44	Uncharacterized protein C15orf44. [Source:Uniprot/SPTREMBL;Acc:Q96HX5]		15.376	-14.73	0.0100966	626	25	5	40 [+]

C15orf48	Normal mucosa of esophagus-specific gene 1 protein (Protein FOAP-11). [Source:Uniprot/SWISSPROT;Acc:Q9C002]		16.845	-10.83	0.0240874	431	18	9	48 [+]
C16orf53	Uncharacterized protein C16orf53. [Source:Uniprot/SWISSPROT;Acc:Q9BTK6]		16.97	-17.69	0.00694165	327	17	5	55 [+]
C16orf75	C16orf75 protein. [Source:Uniprot/SPTREMBL;Acc:Q49AE2]		17.001	-16.73	0.00634222	973	19	4	20 [+]
C16orf75	C16orf75 protein. [Source:Uniprot/SPTREMBL;Acc:Q49AE2]		17.019	-16.73	0.0204481	963	17	1	16 [+]
C17orf45	Uncharacterized protein C17orf45. [Source:Uniprot/SPTREMBL;Acc:Q8N1F1]		16.065	-12.88	0.048693	292	16	1	45 [+]
C18orf34	Uncharacterized protein C18orf34. [Source:Uniprot/SWISSPROT;Acc:Q5BJE1]		16.857	-12.06	0.016623	187	11	4	38 [+]
C18orf55	TIM21-like protein, mitochondrial precursor. [Source:Uniprot/SWISSPROT;Acc:Q9BVV7]		16.106	-18.97	8.20E-06	482	19	5	43 [+]
C19orf59	Mast cell-expressed membrane protein 1. [Source:Uniprot/SWISSPROT;Acc:Q8IX19]		15.706	-15.38	5.08E-06	708	23	4	45 [+]
C1orf131	C1orf131 protein (Fragment). [Source:Uniprot/SPTREMBL;Acc:Q7Z6H5]		16.105	-16.96	0.00283543	513	22	3	43 [+]

C1orf131	C1orf131 protein (Fragment). [Source:Uniprot/SPTREMBL;Acc:Q7Z6H5]		16.095	-16.96	0.0473606	516	18	1	33 [+]
C1orf134	NOT ANNOTATED		16.744	-15.03	0.0264944	198	10	1	36 [+]
C1orf149	Uncharacterized protein C1orf149 (Sarcoma antigen NY-SAR-91). [Source:Uniprot/SWISSPROT;Acc:Q9HAF1]		16.107	-18.47	0.0479867	1000	14	1	13 [+]
C1orf156	Uncharacterized protein C1orf156 (Arsenic-transactivated protein 2) (AsTP2). [Source:Uniprot/SWISSPROT;Acc:O95568]		15.92	-15.19	0.00154016	1000	12	2	17 [+]
C1orf165	Coiled-coil domain-containing protein C1orf165. [Source:Uniprot/SWISSPROT;Acc:Q7L4P6]		17.165	-18.85	0.00401598	363	20	6	63 [+]
C1orf41	Placental protein 25 (PP25). [Source:Uniprot/SWISSPROT;Acc:Q9Y547]		18.214	-15.43	0.00660821	350	13	1	39 [+]
C1orf43	Uncharacterized protein C1orf43 (Hepatitis C virus NS5A- transactivated protein 4) (HCV NS5A- transactivated protein 4) (Protein NICE-3) (S863- 3). [Source:Uniprot/SWISSPROT;Acc:Q9BWL3]		15.412	-11.5	0.00880062	733	17	3	22 [+]
C1orf50	Uncharacterized protein C1orf50. [Source:Uniprot/SWISSPROT;Acc:Q9BV19]		16.584	-13.61	0.00774131	347	15	4	54 [+]
C1orf98	NOT ANNOTATED		16.823	-12.87	0.0246004	702	15	1	22 [+]

C20orf107	Uncharacterized protein C20orf106 precursor. [Source:Uniprot/SWISSPROT;Acc:Q5JX71]		16.291	-15.77	0.00854267	72	4	6	16 [+]
C20orf107	Uncharacterized protein C20orf106 precursor. [Source:Uniprot/SWISSPROT;Acc:Q5JX71]		16.291	-15.77	0.0404523	82	4	1	10 [+]
C20orf29	Uncharacterized protein C20orf29. [Source:Uniprot/SWISSPROT;Acc:Q9NUS5]		15.443	-14.95	0.00087129	1010	18	4	29 [+]
C20orf51	Putative uncharacterized protein C20orf51. [Source:Uniprot/SWISSPROT;Acc:Q9H493]		15.481	-17.75	0.00344357	368	18	1	48 [+]
C20orf69	Uncharacterized protein C20orf69 (Fragment). [Source:Uniprot/SPTREMBL;Acc:Q9BZ41]		16.161	-15.22	0.00249303	1000	12	2	14 [+]
C20orf71	Short palate, lung and nasal epithelium carcinoma-associated protein 3 precursor. [Source:Uniprot/SWISSPROT;Acc:Q9BQP9]		16.45	-19.1	0.0348676	311	16	1	40 [+]
C20orf94	Uncharacterized protein C20orf94. [Source:Uniprot/SPTREMBL;Acc:Q5VYV7]		16.156	-16.29	0.0458542	1000	9	1	9 [+]
C21orf114	Uncharacterized protein C21orf114 (B lymphocyte activation-related protein BC-2048). [Source:Uniprot/SPTREMBL;Acc:Q96PM7]		16.908	-18.81	0.0226945	1000	5	1	5 [+]

C21orf42	Uncharacterized protein C21orf42. [Source:Uniprot/SWISSPROT;Acc:P58513]		17.54	-18.72	0.0125096	1000	3	1	3 [+]
C21orf66	GC-rich sequence DNA-binding factor homolog. [Source:Uniprot/SWISSPROT;Acc:Q9Y5B6]		16.055	-15.17	0.00302859	1048	11	1	11 [+]
C21orf66	GC-rich sequence DNA-binding factor homolog. [Source:Uniprot/SWISSPROT;Acc:Q9Y5B6]		16.051	-15.17	0.00305243	1051	16	4	21 [+]
C2orf29	Uncharacterized protein C2orf29. [Source:Uniprot/SWISSPROT;Acc:Q9UKZ1]		16.038	-15.83	0.00104676	901	18	5	24 [+]
C3orf14	Uncharacterized protein C3orf14. [Source:Uniprot/SWISSPROT;Acc:Q9HB15]		17.875	-11.81	0.00911416	254	9	5	37 [+]
C3orf23	Uncharacterized protein C3orf23. [Source:Uniprot/SWISSPROT;Acc:Q8N3R3]		15.495	-16.9	0.00108479	1763	8	4	7 [+]
C3orf32	Uncharacterized protein C3orf32. [Source:Uniprot/SWISSPROT;Acc:Q9Y2M2]		16.265	-19.27	0.00469239	468	24	4	52 [+]
C3orf32	Uncharacterized protein C3orf32. [Source:Uniprot/SWISSPROT;Acc:Q9Y2M2]		17.083	-19.27	0.0192564	237	11	1	36 [+]
C3orf59	Uncharacterized protein C3orf59. [Source:Uniprot/SWISSPROT;Acc:Q8IYB1]		15.445	-13.86	0.00416875	1568	9	6	11 [+]
C3orf62	Uncharacterized protein C3orf62. [Source:Uniprot/SWISSPROT;Acc:Q6ZUJ4]		15.409	-19.31	0.00777902	2394	5	2	7 [+]

C5orf14	disulfide isomerase [Source:RefSeq_peptide;Acc:NP_078991]		17.309	-13.34	1.60E-05	195	9	6	33 [+]
C6orf117	Uncharacterized protein C6orf117. [Source:Uniprot/SWISSPROT;Acc:Q96G30]		16.713	-21.68	0.0145969	1399	16	3	22 [+]
C6orf130	Uncharacterized protein C6orf130. [Source:Uniprot/SWISSPROT;Acc:Q9Y530]		15.587	-15.05	0.00839639	542	15	5	30 [+]
C6orf148	Uncharacterized protein C6orf148. [Source:Uniprot/SPTREMBL;Acc:Q4VXA5]		16.63	-13.01	0.0294592	215	13	2	37 [+]
C6orf157	UBCH10 binding protein with a hect-like domain [Source:RefSeq_peptide;Acc:NP_944602]		17.991	-19.35	0.00263613	552	17	3	39 [+]
C6orf157	UBCH10 binding protein with a hect-like domain [Source:RefSeq_peptide;Acc:NP_944602]		17.764	-19.35	0.0101237	623	14	1	23 [+]
C6orf159	Uncharacterized protein C6orf159. [Source:Uniprot/SPTREMBL;Acc:Q5TAB7]		16.23	-22.01	0.00437847	1000	20	4	22 [+]
C6orf192	OTTHUMP00000017233. [Source:Uniprot/SPTREMBL;Acc:Q5TBJ2]		16.065	-20.34	0.0002103	902	22	5	29 [+]
C6orf199	Uncharacterized protein C6orf199. [Source:Uniprot/SPTREMBL;Acc:Q5TCS8]		16.49	-13.72	0.0336049	1212	9	1	10 [+]
C6orf54	Uncharacterized protein C6orf54 (Protein HGC6.1). [Source:Uniprot/SWISSPROT;Acc:Q9Y6Z4]		16.219	-17.51	0.00281438	578	15	1	25 [+]

C6orf98	Nesprin-1 (Nuclear envelope spectrin repeat protein 1) (Synaptic nuclear envelope protein 1) (Syne-1) (Myocyte nuclear envelope protein 1) (Myne-1) (Enaptin). [Source:Uniprot/SWISSPROT;Acc:Q8NF91]	16.234	-15.32	0.0375238	656	18	5	29 [+]
C8orf32	Uncharacterized protein C8orf32. [Source:Uniprot/SWISSPROT;Acc:Q96HA8]	16.351	-16.57	2.65E-05	605	18	6	43 [+]
C8orf45	Uncharacterized protein C8orf45. [Source:Uniprot/SWISSPROT;Acc:Q4G0Z9]	16.094	-10.49	0.0485693	456	16	1	24 [+]
C9orf11	Acr formation associated factor [Source:RefSeq_peptide;Acc:NP_065692]	16.857	-8.67	0.0238243	258	13	1	29 [+]
C9orf156	Uncharacterized protein C9orf156 (Nef-associated protein 1). [Source:Uniprot/SPTREMBL;Acc:Q5T113]	16.857	-15.94	0.00080014	244	13	4	46 [+]
C9orf156	Uncharacterized protein C9orf156 (Nef-associated protein 1). [Source:Uniprot/SPTREMBL;Acc:Q5T113]	16.857	-15.94	0.0238243	199	11	1	33 [+]
C9orf16	UPF0184 protein C9orf16 (EST00098). [Source:Uniprot/SWISSPROT;Acc:Q9BUW7]	17.114	-19.73	0.00765003	313	17	4	54 [+]
C9orf23	Alba-like protein C9orf23. [Source:Uniprot/SWISSPROT;Acc:Q8N5L8]	16.628	-16.86	0.00330457	319	18	3	75 [+]

C9orf32	UPF0351 protein C9orf32. [Source:Uniprot/SWISSPROT;Acc:Q9BV86]	15.841	-24.75	0.00053534	466	15	3	37 [+]
C9orf71	Uncharacterized protein C9orf71. [Source:Uniprot/SWISSPROT;Acc:Q8N6L7]	16.466	-14.24	0.00709218	679	21	3	38 [+]
C9orf97	Uncharacterized protein C9orf97. [Source:Uniprot/SWISSPROT;Acc:Q5T7W7]	16.293	-13.32	0.0403858	626	18	1	29 [+]
CA14	Carbonic anhydrase 14 precursor (EC 4.2.1.1) (Carbonic anhydrase XIV) (Carbonate dehydratase XIV) (CA-XIV). [Source:Uniprot/SWISSPROT;Acc:Q9ULX7]	15.589	-12.39	0.00489758	419	18	6	44 [+]
CA3	Carbonic anhydrase 3 (EC 4.2.1.1) (Carbonic anhydrase III) (Carbonate dehydratase III) (CA-III). [Source:Uniprot/SWISSPROT;Acc:P07451]	15.712	-17.51	0.0124444	892	16	5	21 [+]
CABC1	Chaperone-activity of bc1 complex-like, mitochondrial precursor (Chaperone-ABC1-like) (aarF domain-containing protein kinase 3). [Source:Uniprot/SWISSPROT;Acc:Q8NI60]	16.887	-27.7	0.00065172	808	21	3	29 [+]
CABC1	Chaperone-activity of bc1 complex-like, mitochondrial precursor (Chaperone-ABC1-like) (aarF domain-containing protein kinase 3). [Source:Uniprot/SWISSPROT;Acc:Q8NI60]	16.889	-27.7	0.0041655	807	15	1	16 [+]

CADPS	Calcium-dependent secretion activator 1 (Calcium-dependent activator protein for secretion 1) (CAPS-1). [Source:Uniprot/SWISSPROT;Acc:Q9ULU8]		16.363	-13.69	0.0371243	1295	7	1	7 [+]
CAGE1	Cancer-associated gene 1 protein (CAGE-1) (Cancer/testis antigen 3). [Source:Uniprot/SWISSPROT;Acc:Q8TC20]		16.375	-9.6	0.0373949	674	12	1	14 [+]
CALCA	Calcitonin gene-related peptide 1 precursor (Calcitonin gene-related peptide I) (CGRP-I) (Alpha-type CGRP). [Source:Uniprot/SWISSPROT;Acc:P06881]		16.404	-15.38	0.036402	295	16	1	46 [+]
CALCRL	Calcitonin gene-related peptide type 1 receptor precursor (CGRP type 1 receptor) (Calcitonin receptor-like receptor). [Source:Uniprot/SWISSPROT;Acc:Q16602]		15.528	-13.33	0.00063296	1079	18	5	20 [+]
CAMSAP1	calmodulin regulated spectrin-associated protein 1 [Source:RefSeq_peptide;Acc:NP_056262]		15.545	-15.39	6.14E-05	1000	18	4	23 [+]
CAPRIN2	C1q domain containing 1 isoform 2 [Source:RefSeq_peptide;Acc:NP_076414]		17.468	-19.48	0.0133861	348	18	6	71 [+]
CAPS2	Calcyphosin-2 (Calcyphosine-2). [Source:Uniprot/SWISSPROT;Acc:Q9BXY5]		16.291	-15.49	0.00065518	263	13	2	46 [+]

CARD11	Caspase recruitment domain-containing protein 11 (CARD-containing MAGUK protein 3) (Carma 1). [Source:Uniprot/SWISSPROT;Acc:Q9BXL7]		17.153	-23.2	1.16E-06	489	24	4	51 [+]
CARM1	Histone-arginine methyltransferase CARM1 (EC 2.1.1.125) (EC 2.1.1.-) (Protein arginine N-methyltransferase 4) (Coactivator-associated arginine methyltransferase 1). [Source:Uniprot/SWISSPROT;Acc:Q86X55]		16.02	-18.86	6.29E-06	1015	16	5	19 [+]
CASP1	Caspase-1 precursor (EC 3.4.22.36) (CASP-1) (Interleukin-1 beta convertase) (IL-1BC) (IL-1 beta-converting enzyme) (ICE) (Interleukin- 1 beta-converting enzyme) (p45) [Contains: Caspase-1 p20 subunit; Caspase-1 p10 subunit]. [Source:Uniprot/SWISSPROT;Acc:P29466]		16.97	-10.46	0.0214202	112	7	2	17 [+]

CASP1	Caspase-1 precursor (EC 3.4.22.36) (CASP-1) (Interleukin-1 beta convertase) (IL-1BC) (IL-1 beta-converting enzyme) (ICE) (Interleukin- 1 beta-converting enzyme) (p45) [Contains: Caspase-1 p20 subunit; Caspase-1 p10 subunit]. [Source:Uniprot/SWISSPROT;Acc:P29466]		16.97	-10.46	0.0214202	60	3	1	8 [+]
CBX6	Chromobox protein homolog 6. [Source:Uniprot/SWISSPROT;Acc:O95503]		16.349	-18.77	0.00307629	1000	15	4	19 [+]
CCBL2	Kynurenine aminotransferase III isoform 1 [Source:RefSeq_peptide;Acc:NP_001008661]		16.207	-14.65	0.0437454	410	17	5	48 [+]
CCDC102A	Coiled-coil domain-containing protein 102A. [Source:Uniprot/SWISSPROT;Acc:Q96A19]		16.166	-10.86	0.0397759	558	18	6	40 [+]
CCDC116	Coiled-coil domain-containing protein 116. [Source:Uniprot/SWISSPROT;Acc:Q8IYX3]		16.404	-20.67	0.00485271	256	14	3	56 [+]
CCDC14	Coiled-coil domain containing 14 [Source:RefSeq_peptide;Acc:NP_073594]		16.201	-16.9	0.0002217	1058	12	3	13 [+]
CCDC28B	Coiled-coil domain-containing protein 28B. [Source:Uniprot/SWISSPROT;Acc:Q9BUN5]		15.346	-20.18	0.00137775	589	23	3	49 [+]

CCDC28B	Coiled-coil domain-containing protein 28B. [Source:Uniprot/SWISSPROT;Acc:Q9BUN5]		16.517	-20.18	0.0322198	139	7	1	20 [+]
CCDC38	Coiled-coil domain-containing protein 38. [Source:Uniprot/SWISSPROT;Acc:Q502W7]		15.358	-16.4	0.00037125	1000	12	2	13 [+]
CCDC41	Coiled-coil domain-containing protein 41 (Renal carcinoma antigen NY- REN-58). [Source:Uniprot/SWISSPROT;Acc:Q9Y592]		17.393	-12.92	0.01438	531	16	1	24 [+]
CCDC42	Coiled-coil domain-containing protein 42. [Source:Uniprot/SWISSPROT;Acc:Q96M95]		18.893	-14.89	0.00347062	196	11	5	38 [+]
CCDC44	Coiled-coil domain-containing protein 44. [Source:Uniprot/SWISSPROT;Acc:Q9BSH4]		15.62	-14.59	0.00879709	362	19	5	49 [+]
CCDC45	Coiled-coil domain-containing protein 45. [Source:Uniprot/SWISSPROT;Acc:Q96GE4]		15.499	-9.97	0.00040783	163	10	6	33 [+]
CCDC51	coiled-coil domain containing 51 [Source:RefSeq_peptide;Acc:NP_078937]		17.875	-13.41	0.00409648	231	13	5	54 [+]
CCDC55	Coiled-coil domain-containing protein 55. [Source:Uniprot/SWISSPROT;Acc:Q9H0G5]		15.802	-18.45	8.71E-05	799	17	3	21 [+]

CCDC60	Coiled-coil domain-containing protein 60. [Source:Uniprot/SWISSPROT;Acc:Q8IWA6]		16.224	-10.69	0.00227462	331	18	5	52 [+]
CCDC62	Coiled-coil domain-containing protein 60 (Aaa-protein) (Protein TSP- NY). [Source:Uniprot/SWISSPROT;Acc:Q6P9F0]		15.637	-11.89	0.00719139	823	17	3	18 [+]
CCDC75	Coiled-coil domain-containing protein 75 (G patch domain-containing protein 11). [Source:Uniprot/SWISSPROT;Acc:Q8N954]		16.404	-13.17	0.0357474	296	13	1	37 [+]
CCDC81	Coiled-coil domain containing 81 [Source:RefSeq_peptide;Acc:NP_068599]		15.698	-18.53	0.00118362	393	18	5	57 [+]
CCDC92	Coiled-coil domain-containing protein 92 (Limkain beta-2). [Source:Uniprot/SWISSPROT;Acc:Q53HC0]		15.677	-15.86	0.00032635	622	19	7	39 [+]
CCL11	Eotaxin precursor (Small inducible cytokine A11) (CCL11) (Eosinophil chemotactic protein). [Source:Uniprot/SWISSPROT;Acc:P51671]		15.399	-15.57	0.0331871	490	16	3	28 [+]
CCL7	Small inducible cytokine A7 precursor (CCL7) (Monocyte chemotactic protein 3) (MCP-3) (Monocyte chemoattractant protein 3) (NC28). [Source:Uniprot/SWISSPROT;Acc:P80098]		16.378	-14.48	0.00285201	439	23	5	52 [+]

CCL8	Small inducible cytokine A8 precursor (CCL8) (Monocyte chemotactic protein 2) (MCP-2) (Monocyte chemoattractant protein 2) (HC14) [Contains: MCP-2(6-76)]. [Source:Uniprot/SWISSPROT;Acc:P80075]		16.005	-11.72	0.0231895	494	19	4	45 [+]
CCNI	Cyclin-I. [Source:Uniprot/SWISSPROT;Acc:Q14094]		16.404	-10.82	0.0097295	193	11	9	34 [+]
CCR3	C-C chemokine receptor type 3 (C-C CKR-3) (CC-CKR-3) (CCR-3) (CCR3) (CKR3) (Eosinophil eotaxin receptor) (CD193 antigen). [Source:Uniprot/SWISSPROT;Acc:P51677]		16.408	-12.64	0.0166498	382	18	4	37 [+]
CD163	Scavenger receptor cysteine-rich type 1 protein M130 precursor (CD163 antigen) (Hemoglobin scavenger receptor) [Contains: Soluble CD163 (sCD163)]. [Source:Uniprot/SWISSPROT;Acc:Q86VB7]		16.065	-8.47	0.00333331	249	14	4	55 [+]
CD164L2	CD164 sialomucin-like 2 protein precursor. [Source:Uniprot/SWISSPROT;Acc:Q6UWJ8]		16.828	-16.75	0.0241791	364	22	1	56 [+]
CD1E	T-cell surface glycoprotein CD1e precursor (CD1e antigen) (R2G1). [Source:Uniprot/SWISSPROT;Acc:P15812]		16.127	-19.26	0.0470954	633	16	1	17 [+]

CD48	CD48 antigen precursor (B-lymphocyte activation marker BLAST-1) (BCM1 surface antigen) (Leukocyte antigen MEM-102) (TCT.1). [Source:Uniprot/SWISSPROT;Acc:P09326]		17.158	-13.5	0.0128317	306	17	6	49 [+]
CDADC1	Cytidine and dCMP deaminase domain containing 1 [Source:RefSeq_peptide;Acc:NP_112173]		16.857	-12.95	0.0235427	286	14	1	49 [+]
CDADC1	Cytidine and dCMP deaminase domain containing 1 [Source:RefSeq_peptide;Acc:NP_112173]		16.38	-12.95	0.0365465	388	16	1	34 [+]
CDCA4	Cell division cycle-associated protein 4 (Hematopoietic progenitor protein). [Source:Uniprot/SWISSPROT;Acc:Q9BXL8]		16.39	-23.36	0.0244655	1260	19	3	25 [+]
CDH8	Cadherin-8 precursor. [Source:Uniprot/SWISSPROT;Acc:P55286]		15.499	-12.85	0.00622317	147	8	6	31 [+]
CDKN1B	Cyclin-dependent kinase inhibitor 1B (Cyclin-dependent kinase inhibitor p27) (p27Kip1). [Source:Uniprot/SWISSPROT;Acc:P46527]		16.165	-17.17	0.0028634	1341	12	4	13 [+]
CDKN2AIP	Collaborates/cooperates with ARF (alternate reading frame) protein [Source:RefSeq_peptide;Acc:NP_060102]		16.405	-18.55	0.0023663	766	17	6	28 [+]

CDKN3	Cyclin-dependent kinase inhibitor 3 (EC 3.1.3.48) (EC 3.1.3.16) (CDK2-associated dual-specificity phosphatase) (Kinase-associated phosphatase) (Cyclin-dependent kinase-interacting protein 2) (Cyclin-dependent kinase interactor 1). [Source:Uniprot/SWISSPROT;Acc:Q16667]		16.63	-11.89	0.00256443	136	6	5	27 [+]
CENTD3	Centaurin-delta 3 (Cnt-d3) (Arf-GAP, Rho-GAP, ankyrin repeat and pleckstrin homology domain-containing protein 3). [Source:Uniprot/SWISSPROT;Acc:Q8WWN8]		16.658	-15.24	0.0283111	547	21	5	39 [+]
CETN3	Centrin-3. [Source:Uniprot/SWISSPROT;Acc:O15182]		16.123	-7.8	7.35E-06	350	19	8	66 [+]
CHCHD8	Coiled-coil-helix-coiled-coil-helix domain containing 8 [Source:RefSeq_peptide;Acc:NP_057649]		16.342	-16.64	0.00225599	448	20	5	55 [+]
CHD1L	Chromodomain helicase DNA binding protein 1-like [Source:RefSeq_peptide;Acc:NP_004275]		15.386	-11	0.00177268	253	15	6	64 [+]
CHD7	Chromodomain-helicase-DNA-binding protein 7 (EC 3.6.1.-) (ATP-dependent helicase CHD7) (CHD-7) (Fragment). [Source:Uniprot/SWISSPROT;Acc:Q9P2D1]		16.65	-22.07	0.0191297	971	19	6	37 [+]

CKAP2	Cytoskeleton-associated protein 2 (Tumor-associated microtubule-associated protein) (CTCL tumor antigen se20-10). [Source:Uniprot/SWISSPROT;Acc:Q8WWK9]		17.76	-20.64	0.010158	336	17	1	45 [+]
CKS1_HUMAN	Cyclin-dependent kinases regulatory subunit 1 (CKS-1). [Source:Uniprot/SWISSPROT;Acc:P61024]		15.767	-15.67	0.00125384	1000	14	3	20 [+]
CKS1B	Cyclin-dependent kinases regulatory subunit 1 (CKS-1). [Source:Uniprot/SWISSPROT;Acc:P61024]		17.015	-15.67	0.0018443	469	21	2	41 [+]
CKS1B	Cyclin-dependent kinases regulatory subunit 1 (CKS-1). [Source:Uniprot/SWISSPROT;Acc:P61024]		17.007	-15.67	0.00186859	471	21	1	37 [+]
CLCC1	Mid-1-related chloride channel 1 isoform 1 [Source:RefSeq_peptide;Acc:NP_001041675]		17.158	-16.38	0.0179489	725	15	1	15 [+]
CLCNKA	Chloride channel protein ClC-Ka (Chloride channel Ka) (ClC-K1). [Source:Uniprot/SWISSPROT;Acc:P51800]		16.471	-19.37	0.00279254	392	17	1	34 [+]
CLCNKB	Chloride channel protein ClC-Kb (Chloride channel Kb) (ClC-K2). [Source:Uniprot/SWISSPROT;Acc:P51801]		16.471	-19.37	0.00279254	392	17	2	40 [+]

CLK2	Dual specificity protein kinase CLK2 (EC 2.7.12.1) (CDC-like kinase 2). [Source:Uniprot/SWISSPROT;Acc:P49760]		15.567	-15.42	0.00267337	350	18	5	49 [+]
CLLU10S	Chronic lymphocytic leukemia up-regulated 1 opposite strand [Source:RefSeq_peptide;Acc:NP_001020403]		17.309	-15.44	0.015558	378	19	1	42 [+]
CLOCK	Circadian locomoter output cycles protein kaput (hCLOCK). [Source:Uniprot/SWISSPROT;Acc:O15516]		16.178	-15.85	0.044927	592	15	1	24 [+]
CLTA	Clathrin light chain A (Lca). [Source:Uniprot/SWISSPROT;Acc:P09496]		16.065	-17.94	0.048693	282	12	1	36 [+]
CLTA	Clathrin light chain A (Lca). [Source:Uniprot/SWISSPROT;Acc:P09496]		16.065	-17.94	0.048693	285	15	7	49 [+]
CNIH3	Cornichon homolog 3. [Source:Uniprot/SWISSPROT;Acc:Q8TBE1]		15.539	-21.34	0.00618247	1208	11	3	19 [+]
CNOT4	CCR4-NOT transcription complex subunit 4 (EC 6.3.2.-) (E3 ubiquitin protein ligase CNOT4) (CCR4-associated factor 4) (Potential transcriptional repressor NOT4Hp). [Source:Uniprot/SWISSPROT;Acc:O95628]		18.23	-23.65	0.00124872	1000	15	5	18 [+]

CNOT4	CCR4-NOT transcription complex subunit 4 (EC 6.3.2.-) (E3 ubiquitin protein ligase CNOT4) (CCR4-associated factor 4) (Potential transcriptional repressor NOT4Hp). [Source:Uniprot/SWISSPROT;Acc:O95628]		18.153	-23.65	0.00700514	1000	9	1	10 [+]
CNTNAP4	Contactin-associated protein-like 4 precursor (Cell recognition molecule Caspr4). [Source:Uniprot/SWISSPROT;Acc:Q9C0A0]		15.536	-11.65	0.00801137	380	19	6	57 [+]
COASY	Bifunctional coenzyme A synthase (CoA synthase) (NBP) (POV-2) [Includes: Phosphopantetheine adenylyltransferase (EC 2.7.7.3) (Pantetheine-phosphate adenylyltransferase) (PPAT) (Dephospho-CoA pyrophosphorylase); Dephospho-CoA kinase (EC 2.7.1.24) (DPCK) (D [Source:Uniprot/SWISSPROT;Acc:Q13057]		16.913	-11.43	0.00042193	309	16	4	62 [+]
COIL	Coilin (p80). [Source:Uniprot/SWISSPROT;Acc:P38432]		15.577	-16.17	0.00604422	869	24	4	29 [+]
COL6A3	Collagen alpha-3(VI) chain precursor. [Source:Uniprot/SWISSPROT;Acc:P12111]		16.738	-18.57	0.0266201	755	18	8	33 [+]

COMMD5	COMM domain-containing protein 5 (Hypertension-related calcium-regulated gene protein) (HCaRG). [Source:Uniprot/SWISSPROT;Acc:Q9GZQ3]		17.169	-28.57	0.0177562	2204	3	1	3 [+]
COPS6	COP9 signalosome complex subunit 6 (Signalosome subunit 6) (SGN6) (JAB1-containing signalosome subunit 6) (Vpr-interacting protein) (hVIP) (MOV34 homolog). [Source:Uniprot/SWISSPROT;Acc:Q7L5N1]		16.727	-16.78	0.0269007	408	18	3	49 [+]
COQ2	Para-hydroxybenzoate--polyprenyltransferase, mitochondrial precursor (EC 2.5.1.-) (PHB:polyprenyltransferase) (hCOQ2). [Source:Uniprot/SWISSPROT;Acc:Q96H96]		16.269	-12.58	0.0141753	373	19	3	58 [+]
CORO7	Coronin-7 (70 kDa WD repeat tumor rejection antigen homolog). [Source:Uniprot/SWISSPROT;Acc:P57737]		16.326	-18.9	0.00515458	614	23	6	46 [+]
COX5A	Cytochrome c oxidase subunit 5A, mitochondrial precursor (EC 1.9.3.1) (Cytochrome c oxidase polypeptide Va). [Source:Uniprot/SWISSPROT;Acc:P20674]		17.309	-20.28	0.0155574	172	10	5	53 [+]
CPNE2	Copine-2 (Copine II). [Source:Uniprot/SWISSPROT;Acc:Q96FN4]		17.422	-12.69	1.44E-05	306	15	7	65 [+]

CPO	Carboxypeptidase O precursor (EC 3.4.17.-) (CPO). [Source:Uniprot/SWISSPROT;Acc:Q8IVL8]		16.744	-22.85	0.00192315	140	7	3	35 [+]
CPOX	Coproporphyrinogen III oxidase, mitochondrial precursor (EC 1.3.3.3) (Coproporphyrinogenase) (Coprogen oxidase) (COX). [Source:Uniprot/SWISSPROT;Acc:P36551]		16.773	-22.8	5.68E-05	1235	16	3	21 [+]
CREB3	Cyclic AMP-responsive element-binding protein 3 (Luman protein) (Transcription factor LZIP-alpha). [Source:Uniprot/SWISSPROT;Acc:O43889]		16.404	-11.54	0.0357474	281	16	7	65 [+]
CREG2	Protein CREG2 precursor. [Source:Uniprot/SWISSPROT;Acc:Q8IUH2]		15.829	-16.49	8.08E-05	2162	5	2	5 [+]
CSF3R	Granulocyte colony-stimulating factor receptor precursor (G-CSF-R) (CD114 antigen). [Source:Uniprot/SWISSPROT;Acc:Q99062]		17.196	-14.66	0.0173093	53	2	1	8 [+]
CSF3R	Granulocyte colony-stimulating factor receptor precursor (G-CSF-R) (CD114 antigen). [Source:Uniprot/SWISSPROT;Acc:Q99062]		17.108	-14.66	0.0181327	314	18	3	62 [+]
CXorf24	Chromosome X open reading frame 24. [Source:Uniprot/SPTREMBL;Acc:Q5H9B1]		17.044	-22.36	0.0199764	919	13	1	10 [+]

CXorf24	Chromosome X open reading frame 24. [Source:Uniprot/SPTREMBL;Acc:Q5H9B1]	17.044	-22.36	0.0199764	934	13	1	10 [+]
CXorf40B	Protein CXorf40B. [Source:Uniprot/SWISSPROT;Acc:Q96DE9]	17.482	-18.65	0.0132104	546	18	1	36 [+]
CYorf15B	Lipopolysaccharide-specific response 5-like protein [Source:RefSeq_peptide;Acc:NP_115965]	16.274	-14.31	0.0410837	373	15	1	39 [+]
CYP11A1	Cytochrome P450 11A1, mitochondrial precursor (EC 1.14.15.6) (CYPXIA1) (P450(scc)) (Cholesterol side-chain cleavage enzyme) (Cholesterol desmolase). [Source:Uniprot/SWISSPROT;Acc:P05108]	16.178	-19.36	0.00721161	173	11	7	49 [+]
CYP26A1	Cytochrome P450 26A1 (EC 1.14.-.-) (Retinoic acid-metabolizing cytochrome) (P450 retinoic acid-inactivating 1) (P450RAI) (hP450RAI) (Retinoic acid 4-hydroxylase). [Source:Uniprot/SWISSPROT;Acc:O43174]	16.134	-13.19	0.0457162	580	15	1	17 [+]

CYP26A1	Cytochrome P450 26A1 (EC 1.14.-.-) (Retinoic acid-metabolizing cytochrome) (P450 retinoic acid-inactivating 1) (P450RAI) (hP450RAI) (Retinoic acid 4-hydroxylase). [Source:Uniprot/SWISSPROT;Acc:O43174]	16.117	-13.19	0.0464584	586	18	6	30 [+]
CYP4F3	Cytochrome P450 4F3 (EC 1.14.13.30) (CYPIVF3) (Leukotriene-B(4) omega- hydroxylase) (Leukotriene-B(4) 20-monooxygenase) (Cytochrome P450-LTB- omega). [Source:Uniprot/SWISSPROT;Acc:Q08477]	16.609	-18.27	0.0258617	386	16	3	34 [+]
D2HGDH	D-2-hydroxyglutarate dehydrogenase, mitochondrial precursor (EC 1.1.99.-). [Source:Uniprot/SWISSPROT;Acc:Q8N465]	15.318	-13.48	0.0088673	840	21	2	29 [+]
DAB1	Disabled homolog 1. [Source:Uniprot/SWISSPROT;Acc:O75553]	18.667	-14.79	0.00430209	244	11	1	34 [+]
DAPK3	Death-associated protein kinase 3 (EC 2.7.11.1) (DAP kinase 3) (DAP-like kinase) (Dlk) (ZIP-kinase). [Source:Uniprot/SWISSPROT;Acc:O43293]	16.138	-23.02	0.00868216	645	23	3	37 [+]
DCHS2	Dachsous 2 isoform 1 [Source:RefSeq_peptide;Acc:NP_060109]	17.083	-18.33	0.00746769	161	9	4	26 [+]

DCLRE1A	DNA cross-link repair 1A protein (hSNM1) (hSNM1A). [Source:Uniprot/SWISSPROT;Acc:Q6PJP8]		15.992	-13.06	0.0093023	427	22	5	53 [+]
DCN	Decorin precursor (Bone proteoglycan II) (PG-S2) (PG40). [Source:Uniprot/SWISSPROT;Acc:P07585]		15.99	-16.8	1.89E-05	799	20	4	30 [+]
DCP1B	mRNA-decapping enzyme 1B (EC 3.-.-.-). [Source:Uniprot/SWISSPROT;Acc:Q8IZD4]		16.404	-16.28	0.00727433	156	7	4	24 [+]
DDHD1	Probable phospholipase DDHD1 (EC 3.1.1.-) (DDHD domain protein 1) (Phosphatidic acid-preferring phospholipase A1 homolog) (PA-PLA1). [Source:Uniprot/SWISSPROT;Acc:Q8NEL9]		15.499	-14.33	0.011477	146	8	7	40 [+]
DDIT4	RTP801 [Source:RefSeq_peptide;Acc:NP_061931]		15.888	-18.53	0.0011719	851	24	6	30 [+]
DDX59	Probable ATP-dependent RNA helicase DDX59 (EC 3.6.1.-) (DEAD box protein 59) (Zinc finger HIT domain-containing protein 5). [Source:Uniprot/SWISSPROT;Acc:Q5T1V6]		16.225	-20.36	0.0430107	1005	9	1	10 [+]
DEFB114	β -Defensin 114 precursor (Defensin, beta 114) (Beta-defensin 14) (DEFB-14). [Source:Uniprot/SWISSPROT;Acc:Q30KQ6]		16.13	-14.32	0.01072	1000	9	2	9 [+]

DEGS2	Sphingolipid C4-hydroxylase/delta 4-desaturase [Source:RefSeq_peptide;Acc:NP_996801]	17.185	-14.24	0.0174953	339	20	4	66 [+]
DEPDC5	DEP domain-containing protein 5. [Source:Uniprot/SWISSPROT;Acc:O75140]	16.124	-14.73	0.00013116	517	24	4	62 [+]
DEPDC6	DEP domain-containing protein 6. [Source:Uniprot/SWISSPROT;Acc:Q8TB45]	16.798	-20.92	6.13E-06	813	23	3	31 [+]
DGKH	Diacylglycerol kinase eta (EC 2.7.1.107) (Diglyceride kinase eta) (DGK-eta) (DAG kinase eta). [Source:Uniprot/SWISSPROT;Acc:Q86XP1]	15.627	-9.36	0.00325653	564	23	6	45 [+]
DHRS9	Dehydrogenase/reductase SDR family member 9 precursor (EC 1.1.-.-) (3- alpha hydroxysteroid dehydrogenase) (3alpha-HSD) (RDH-E2) (Short-chain dehydrogenase/reductase retSDR8) (NADP-dependent retinol dehydrogenase/reductase) (RDHL). [Source:Uniprot/SWISSPROT;Acc:Q9BPW9]	16.269	-13.26	0.0412807	1000	6	1	6 [+]
DHX29	Putative ATP-dependent RNA helicase DHX29 (EC 3.6.1.-) (DEAH box protein 29) (Nucleic acid helicase DDXx). [Source:Uniprot/SWISSPROT;Acc:Q7Z478]	16.404	-9.87	2.98E-06	242	15	9	51 [+]

DIDO1	Death-inducer obliterator 1 (DIO-1) (Death-associated transcription factor 1) (DATF-1) (hDido1). [Source:Uniprot/SWISSPROT;Acc:Q9BTC0]		17.191	-16.1	0.0173852	549	16	1	28 [+]
DIDO1	Death-inducer obliterator 1 (DIO-1) (Death-associated transcription factor 1) (DATF-1) (hDido1). [Source:Uniprot/SWISSPROT;Acc:Q9BTC0]		16.561	-16.1	0.0314283	781	13	1	19 [+]
DIDO1	Death-inducer obliterator 1 (DIO-1) (Death-associated transcription factor 1) (DATF-1) (hDido1). [Source:Uniprot/SWISSPROT;Acc:Q9BTC0]		16.557	-16.1	0.0315577	783	13	1	19 [+]
DIDO1	Death-inducer obliterator 1 (DIO-1) (Death-associated transcription factor 1) (DATF-1) (hDido1). [Source:Uniprot/SWISSPROT;Acc:Q9BTC0]		16.546	-16.1	0.0318818	788	13	1	19 [+]
DIDO1	Death-inducer obliterator 1 (DIO-1) (Death-associated transcription factor 1) (DATF-1) (hDido1). [Source:Uniprot/SWISSPROT;Acc:Q9BTC0]		16.193	-16.1	0.0433563	1000	11	1	16 [+]
DIP2C	Disco-interacting protein 2 homolog C. [Source:Uniprot/SWISSPROT;Acc:Q9Y2E4]		16.13	-24.79	0.0469724	1000	12	1	11 [+]

DIRAS3	GTP-binding protein Di-Ras3 (Distinct subgroup of the Ras family member 3) (Rho-related GTP-binding protein Rho). [Source:Uniprot/SWISSPROT;Acc:O95661]		16.031	-14.05	0.0101457	646	19	3	31 [+]
DIS3L	DIS3 mitotic control homolog (S. cerevisiae)-like [Source:RefSeq_peptide;Acc:NP_588616]		16.273	-13.8	0.00257015	585	21	6	44 [+]
DISP2	Dispatched B [Source:RefSeq_peptide;Acc:NP_277045]		16.328	-25.64	0.00515316	737	16	5	20 [+]
DKFZp781N1041	RIKEN cDNA 6430537H07 gene [Source:MarkerSymbol;Acc:MGI:2441717]RIKEN cDNA 6430537H07 gene [Source:MarkerSymbol;Acc:MGI:2441717] BY ORTHOLOGY TO:ENSMUST00000054280		15.533	-13.37	0.0119123	1000	17	4	24 [+]
DLC1	Rho GTPase-activating protein 7 (Rho-type GTPase-activating protein 7) (Deleted in liver cancer 1 protein) (Dlc-1) (HP protein) (StAR-related lipid transfer protein 12) (StARD12) (START domain-containing protein 12). [Source:Uniprot/SWISSPROT;Acc:Q96QB1]		16.034	-11.43	0.00177586	622	17	1	30 [+]

DMGDH	Dimethylglycine dehydrogenase, mitochondrial precursor (EC 1.5.99.2) (ME2GLYDH). [Source:Uniprot/SWISSPROT;Acc:Q9UI17]	15.593	-9.92	0.0161587	475	17	4	32 [+]
DMRT3	Doublesex and mab-3-related transcription factor 3. [Source:Uniprot/SWISSPROT;Acc:Q9NQL9]	16.556	-16.83	3.31E-06	727	25	9	44 [+]
DNAJA1	DnaJ homolog subfamily A member 1 (Heat shock 40 kDa protein 4) (DnaJ protein homolog 2) (HSJ-2) (HSDJ). [Source:Uniprot/SWISSPROT;Acc:P31689]	15.78	-19.22	0.0073266	1004	19	6	30 [+]
DNAJB1	DnaJ homolog subfamily B member 1 (Heat shock 40 kDa protein 1) (Heat shock protein 40) (HSP40) (DnaJ protein homolog 1) (HDJ-1). [Source:Uniprot/SWISSPROT;Acc:P25685]	15.49	-16.54	2.60E-05	1170	16	6	21 [+]
DNAJC12	DnaJ homolog subfamily C member 12 (J domain-containing protein 1). [Source:Uniprot/SWISSPROT;Acc:Q9UKB3]	16.458	-16.88	0.00074614	446	21	6	48 [+]
DNAJC7	DnaJ homolog subfamily C member 7 (Tetratricopeptide repeat protein 2) (TPR repeat protein 2). [Source:Uniprot/SWISSPROT;Acc:Q99615]	17.762	-12.58	0.0101442	294	18	8	77 [+]

DOCK10	Dedicator of cytokinesis protein 10 (Zizimin-3). [Source:Uniprot/SWISSPROT;Acc:Q96BY6]		15.366	-11.87	0.00067655	630	23	7	42 [+]
DOCK7	Dedicator of cytokinesis protein 7. [Source:Uniprot/SWISSPROT;Acc:Q96N67]		15.456	-11.36	1.22E-06	516	17	8	31 [+]
DOPEY1	Dopey family member 1 [Source:RefSeq_peptide;Acc:NP_055833]		16.065	-9.55	0.028734	241	14	7	53 [+]
DPH5	Probable diphthine synthase (EC 2.1.1.98) (Diphthamide biosynthesis methyltransferase). [Source:Uniprot/SWISSPROT;Acc:Q9H2P9]		16.63	-14.16	0.0294592	184	7	1	12 [+]
DPH5	Probable diphthine synthase (EC 2.1.1.98) (Diphthamide biosynthesis methyltransferase). [Source:Uniprot/SWISSPROT;Acc:Q9H2P9]		16.377	-14.16	0.0366528	344	15	1	32 [+]
DPH5	Probable diphthine synthase (EC 2.1.1.98) (Diphthamide biosynthesis methyltransferase). [Source:Uniprot/SWISSPROT;Acc:Q9H2P9]		16.372	-14.16	0.0368309	345	15	1	32 [+]
DPP6	Dipeptidyl aminopeptidase-like protein 6 (Dipeptidylpeptidase VI) (Dipeptidylpeptidase 6) (Dipeptidyl peptidase IV-like protein) (Dipeptidyl aminopeptidase-related protein) (DPPX). [Source:Uniprot/SWISSPROT;Acc:P42658]		16.191	-17.39	0.0443937	1000	9	1	7 [+]

DPY19L2P1	DPY19L2P1 protein. [Source:Uniprot/SPTREMBL;Acc:Q6NXN4]		17.416	-12.55	0.00375073	301	15	1	39 [+]
DPYD	Dihydropyrimidine dehydrogenase [NADP+] precursor (EC 1.3.1.2) (DPD) (DHPDHase) (Dihydrouracil dehydrogenase) (Dihydrothymine dehydrogenase). [Source:Uniprot/SWISSPROT;Acc:Q12882]		16.088	-16.89	0.0488453	852	12	1	18 [+]
DYNC1LI2	Cytoplasmic dynein 1 light intermediate chain 2 (Dynein light intermediate chain 2, cytosolic) (LIC53/55) (LIC-2). [Source:Uniprot/SWISSPROT;Acc:O43237]		15.795	-17.72	0.00231799	1000	12	1	16 [+]
DYRK3	Dual specificity tyrosine-phosphorylation-regulated kinase 3 (EC 2.7.12.1). [Source:Uniprot/SWISSPROT;Acc:O43781]		16.517	-13.01	0.0111438	231	13	7	40 [+]
DYRK3	Dual specificity tyrosine-phosphorylation-regulated kinase 3 (EC 2.7.12.1). [Source:Uniprot/SWISSPROT;Acc:O43781]		16.517	-13.01	0.0327503	149	8	1	17 [+]
DYRK3	Dual specificity tyrosine-phosphorylation-regulated kinase 3 (EC 2.7.12.1). [Source:Uniprot/SWISSPROT;Acc:O43781]		16.517	-13.01	0.0327503	232	12	1	28 [+]

E2F5	Transcription factor E2F5 (E2F-5). [Source:Uniprot/SWISSPROT;Acc:Q15329]		15.389	-9.36	1.73E-06	653	24	9	44 [+]
EDG1	Sphingosine 1-phosphate receptor Edg-1 (Sphingosine 1-phosphate receptor 1) (S1P1). [Source:Uniprot/SWISSPROT;Acc:P21453]		16.009	-12.34	0.00325905	1385	12	8	21 [+]
EDG8	Sphingosine 1-phosphate receptor Edg-8 (Endothelial differentiation sphingolipid G-protein-coupled receptor 8) (Sphingosine 1-phosphate receptor 5) (S1P5). [Source:Uniprot/SWISSPROT;Acc:Q9H228]		15.452	-17.9	0.0073915	868	13	4	26 [+]
EED	Embryonic ectoderm development isoform b [Source:RefSeq_peptide;Acc:NP_694536]		15.931	-16.02	0.0011674	1000	15	10	28 [+]
EED	Embryonic ectoderm development isoform b [Source:RefSeq_peptide;Acc:NP_694536]		16.421	-16.02	0.0358236	741	16	1	26 [+]
EEF1E1	Eukaryotic translation elongation factor 1 epsilon-1 (Multisynthetase complex auxiliary component p18) (Elongation factor p18). [Source:Uniprot/SWISSPROT;Acc:O43324]		16.067	-13.02	0.00581506	493	19	6	37 [+]
EFCAB2	EF-hand calcium-binding domain-containing protein 2. [Source:Uniprot/SWISSPROT;Acc:Q5VUJ9]		16.783	-18.93	0.00539081	1043	12	2	12 [+]

EGR4	Early growth response protein 4 (EGR-4) (AT133). [Source:Uniprot/SWISSPROT;Acc:Q05215]		16.343	-20.22	0.0006726	519	23	7	52 [+]
EIF1B	Eukaryotic translation initiation factor 1b (eIF1b) (Protein translation factor SUI1 homolog GC20). [Source:Uniprot/SWISSPROT;Acc:O60739]		15.554	-12.34	0.0120202	410	19	7	55 [+]
EIF2B2	Translation initiation factor eIF-2B subunit beta (eIF-2B GDP-GTP exchange factor subunit beta) (S20I15) (S20III15). [Source:Uniprot/SWISSPROT;Acc:P49770]		15.597	-12.24	0.00085205	401	21	6	72 [+]
EIF4A2	Eukaryotic initiation factor 4A-II (EC 3.6.1.-) (ATP-dependent RNA helicase eIF4A-2) (eIF4A-II) (eIF-4A-II). [Source:Uniprot/SWISSPROT;Acc:Q14240]		17.131	-17.26	0.00456062	625	17	7	27 [+]
ELAVL4	ELAV-like protein 4 (Paraneoplastic encephalomyelitis antigen HuD) (Hu-antigen D). [Source:Uniprot/SWISSPROT;Acc:P26378]		15.435	-17.5	0.00091374	1876	5	6	6 [+]
ELAVL4	ELAV-like protein 4 (Paraneoplastic encephalomyelitis antigen HuD) (Hu-antigen D). [Source:Uniprot/SWISSPROT;Acc:P26378]		16.227	-17.5	0.0429496	1116	8	1	11 [+]

EME1	Crossover junction endonuclease EME1 (EC 3.1.22.-) (hMMS4). [Source:Uniprot/SWISSPROT;Acc:Q96AY2]		15.663	-11.97	0.00132273	518	20	5	46 [+]
ENPPI	Ectonucleotide pyrophosphatase/phosphodiesterase family member 1 (E- NPP 1) (Phosphodiesterase I/nucleotide pyrophosphatase 1) (Plasma-cell membrane glycoprotein PC-1) [Includes: Alkaline phosphodiesterase I (EC 3.1.4.1); Nucleotide pyrophosphatase (EC 3. [Source:Uniprot/SWISSPROT;Acc:P22413]		16.229	-11.59	0.00023632	699	15	5	29 [+]
ENSA	α -Endosulfine (ARPP-19e). [Source:Uniprot/SWISSPROT;Acc:O43768]		17.649	-14.16	0.01129	284	15	1	55 [+]
ENTPD4	Ectonucleoside triphosphate diphosphohydrolase 4 (EC 3.6.1.6) (NTPDase 4) (Uridine- diphosphatase) (UDPase) (Lysosomal apyrase-like protein of 70 kDa). [Source:Uniprot/SWISSPROT;Acc:Q9Y227]		16.201	-23.35	0.0439779	1000	10	1	14 [+]
ENTPD7	Ectonucleoside triphosphate diphosphohydrolase 7 (EC 3.6.1.-) (NTPDase 7) (Lysosomal apyrase- like protein 1). [Source:Uniprot/SWISSPROT;Acc:Q9NQZ7]		16.117	-16.77	0.00694643	1557	12	4	15 [+]

EPC1	Enhancer of polycomb homolog 1. [Source:Uniprot/SWISSPROT;Acc:Q9H2F5]		16.065	-17.44	0.0215433	132	8	6	47 [+]
ERMAP	Erythroid membrane-associated protein precursor (hERMAP) (Scianna blood group antigen) (Radin blood group antigen). [Source:Uniprot/SWISSPROT;Acc:Q96PL5]		16.321	-17.56	0.0393436	1753	7	1	7 [+]
ERMAP	Erythroid membrane-associated protein precursor (hERMAP) (Scianna blood group antigen) (Radin blood group antigen). [Source:Uniprot/SWISSPROT;Acc:Q96PL5]		16.317	-17.56	0.0394731	1757	8	3	8 [+]
ESM1	Endothelial cell-specific molecule 1 precursor (ESM-1 secretory protein) (ESM-1). [Source:Uniprot/SWISSPROT;Acc:Q9NQ30]		15.841	-18.28	0.0108781	1468	15	4	16 [+]
ESR2	Estrogen receptor beta (ER-beta). [Source:Uniprot/SWISSPROT;Acc:Q92731]		16.55	-18.07	0.0317517	1234	7	1	8 [+]
EXDL1	Exonuclease 3'-5' domain-like 1 [Source:RefSeq_peptide;Acc:NP_689809]		15.716	-16.44	0.00226673	1196	9	4	10 [+]
EXOC2	Exocyst complex component 2 (Exocyst complex component Sec5). [Source:Uniprot/SWISSPROT;Acc:Q96KP1]		15.323	-15.63	0.00454459	1532	13	3	17 [+]

EXOSC3	Exosome complex exonuclease RRP40 (EC 3.1.13.-) (Ribosomal RNA- processing protein 40) (Exosome component 3) (p10). [Source:Uniprot/SWISSPROT;Acc:Q9NQT5]		17.292	-18.14	0.0008369	368	19	4	50 [+]
EXT2	Exostosin-2 (EC 2.4.1.224) (EC 2.4.1.225) (Glucuronosyl-N-acetylglucosaminyl-proteoglycan/N-acetylglucosaminyl-proteoglycan 4-alpha-N-acetylglucosaminyltransferase) (Putative tumor suppressor protein EXT2) (Multiple exostoses protein 2). [Source:Uniprot/SWISSPROT;Acc:Q93063]		16.453	-20.1	0.00071276	644	22	4	44 [+]
F5	Coagulation factor V precursor (Activated protein C cofactor) [Contains: Coagulation factor V heavy chain; Coagulation factor V light chain]. [Source:Uniprot/SWISSPROT;Acc:P12259]		15.612	-13.98	0.00531893	142	8	2	26 [+]
FAM120AOS	family with sequence similarity 120A opposite strand (FAM120AOS), mRNA [Source:RefSeq_dna;Acc:NM_198841]		15.614	-11.63	0.0450596	1110	15	2	22 [+]
FAM43A	Protein FAM43A. [Source:Uniprot/SWISSPROT;Acc:Q8N2R8]		16.49	-15.03	0.0231854	935	19	7	28 [+]

FAM47B	Protein FAM47B. [Source:Uniprot/SWISSPROT;Acc:Q8NA70]		17.875	-19.65	0.00676698	146	7	2	20 [+]
FAM47B	Protein FAM47B. [Source:Uniprot/SWISSPROT;Acc:Q8NA70]		17.875	-19.65	0.00911416	145	7	1	20 [+]
FAM58A	Similar to CG31232-PA, isoform A (LOC401218), mRNA [Source:RefSeq_dna;Acc:XR_016722]		16.402	-11.43	3.20E-06	433	21	5	48 [+]
FAM58A	Similar to CG31232-PA, isoform A (LOC401218), mRNA [Source:RefSeq_dna;Acc:XR_016722]		16.349	-11.43	0.0375822	446	16	1	38 [+]
FAM62C	Family with sequence similarity 62 (C2 domain containing), member C [Source:RefSeq_peptide;Acc:NP_114119]		15.545	-9.98	0.00598156	1000	18	1	23 [+]
FAM71C	Protein FAM71C. [Source:Uniprot/SWISSPROT;Acc:Q8NEG0]		16.13	-20.25	0.00268232	648	13	2	24 [+]
FAM73B	Family with sequence similarity 73, member B (FAM73B), mRNA [Source:RefSeq_dna;Acc:NM_032809]		15.573	-18.69	0.00079024	1629	12	2	13 [+]
FAM80A	Ribosomal protein S6 modification-like protein A. [Source:Uniprot/SWISSPROT;Acc:Q8IXN7]		15.725	-14.32	0.00220158	205	11	8	47 [+]
FAM82A	Family with sequence similarity 82, member A (FAM82A), mRNA [Source:RefSeq_dna;Acc:NM_144713]		16.404	-12.02	0.036402	141	7	1	23 [+]

FAM82A	Family with sequence similarity 82, member A (FAM82A), mRNA [Source:RefSeq_dna;Acc:NM_144713]		16.404	-12.02	0.036402	147	9	4	34 [+]
FANCE	Fanconi anemia group E protein (Protein FACE). [Source:Uniprot/SWISSPROT;Acc:Q9HB96]		15.309	-17.44	0.012053	759	23	3	39 [+]
FAS	Tumor necrosis factor receptor superfamily member 6 precursor (FASLG receptor) (Apoptosis-mediating surface antigen FAS) (Apo-1 antigen) (CD95 antigen). [Source:Uniprot/SWISSPROT;Acc:P25445]		15.491	-11.84	0.0394081	505	21	3	52 [+]
FASTKD1	FAST kinase domain-containing protein 1. [Source:Uniprot/SWISSPROT;Acc:Q53R41]		16.404	-10.42	5.50E-05	66	3	4	11 [+]
FASTKD1	FAST kinase domain-containing protein 1. [Source:Uniprot/SWISSPROT;Acc:Q53R41]		16.404	-10.42	0.0357474	70	3	1	10 [+]
FCRL6	Fc receptor-like protein 6 precursor (FcR-like protein 6) (FcRL6) (Fc receptor homolog 6) (FcRH6) (IFGP6). [Source:Uniprot/SWISSPROT;Acc:Q6DN72]		16.404	-15.56	0.036402	220	12	1	45 [+]

FDFT1	Squalene synthetase (EC 2.5.1.21) (SQS) (SS) (Farnesyl-diphosphate farnesyltransferase) (FPP:FPP farnesyltransferase). [Source:Uniprot/SWISSPROT;Acc:P37268]		15.485	-14.07	0.00011581	700	18	3	28 [+]
FDFT1	Squalene synthetase (EC 2.5.1.21) (SQS) (SS) (Farnesyl-diphosphate farnesyltransferase) (FPP:FPP farnesyltransferase). [Source:Uniprot/SWISSPROT;Acc:P37268]		15.488	-14.07	0.00398364	699	16	1	24 [+]
FDXR	NADPH:adrenodoxin oxidoreductase, mitochondrial precursor (EC 1.18.1.2) (Adrenodoxin reductase) (AR) (Ferredoxin reductase) (Ferredoxin--NADP(+) reductase). [Source:Uniprot/SWISSPROT;Acc:P22570]		16.421	-15.7	0.00091272	316	19	5	78 [+]
FGB	Fibrinogen beta chain precursor [Contains: Fibrinopeptide B]. [Source:Uniprot/SWISSPROT;Acc:P02675]		16.519	-21.15	0.0014504	431	18	4	33 [+]
FGFR2	Fibroblast growth factor receptor 2 precursor (EC 2.7.10.1) (FGFR-2) (Keratinocyte growth factor receptor 2) (CD332 antigen). [Source:Uniprot/SWISSPROT;Acc:P21802]		17.293	-19.35	0.0157997	428	16	1	36 [+]

FHAD1	Forkhead-associated phosphopeptide-binding domain-containing protein 1 (Fragment). [Source:Uniprot/SPTREMBL;Acc:Q5T2Q6]		17.111	-14.35	0.0187591	483	15	1	32 [+]
FIBP	Acidic fibroblast growth factor intracellular-binding protein (aFGF intracellular-binding protein) (FGF-1 intracellular-binding protein). [Source:Uniprot/SWISSPROT;Acc:O43427]		16.178	-13.13	0.0439477	234	14	6	54 [+]
FIGF	Vascular endothelial growth factor D precursor (VEGF-D) (c-fos-induced growth factor) (FIGF). [Source:Uniprot/SWISSPROT;Acc:O43915]		15.511	-14.19	0.0313443	536	20	8	43 [+]
FKBP1A	FK506-binding protein 1A (EC 5.2.1.8) (Peptidyl-prolyl cis-trans isomerase) (PPIase) (Rotamase) (12 kDa FKBP) (FKBP-12) (Immunophilin FKBP12). [Source:Uniprot/SWISSPROT;Acc:P62942]		17.772	-14.24	0.0100448	334	18	1	53 [+]
FKBP1A	FK506-binding protein 1A (EC 5.2.1.8) (Peptidyl-prolyl cis-trans isomerase) (PPIase) (Rotamase) (12 kDa FKBP) (FKBP-12) (Immunophilin FKBP12). [Source:Uniprot/SWISSPROT;Acc:P62942]		17.469	-14.24	0.0133728	390	20	1	47 [+]

FNTA	Protein farnesyltransferase/geranylgeranyltransferase type I alpha subunit (EC 2.5.1.58) (EC 2.5.1.59) (CAAX farnesyltransferase alpha subunit) (Ras proteins prenyltransferase alpha) (FTase-alpha) (Type I protein geranylgeranyltransferase alpha subunit) [Source:Uniprot/SWISSPROT;Acc:P49354]		15.515	-13.61	0.00631207	498	21	5	50 [+]
FOS	Proto-oncogene protein c-fos (Cellular oncogene fos) (G0/G1 switch regulatory protein 7). [Source:Uniprot/SWISSPROT;Acc:P01100]		16.235	-18.22	0.0319215	805	18	8	30 [+]
FOXP1	Forkhead box protein P1. [Source:Uniprot/SWISSPROT;Acc:Q9H334]		15.46	-11.47	0.00356883	1000	13	1	15 [+]
FREM2	FRAS1-related extracellular matrix protein 2 precursor (ECM3 homolog). [Source:Uniprot/SWISSPROT;Acc:Q5SZK8]		15.533	-18.97	0.00611315	1000	18	4	27 [+]
FSHR	Follicle-stimulating hormone receptor precursor (FSH-R) (Follitropin receptor). [Source:Uniprot/SWISSPROT;Acc:P23945]		15.725	-11.2	0.00292492	220	14	6	51 [+]

FVT1	3-Ketodihydrosphingosine reductase precursor (EC 1.1.1.102) (3-dehydrosphinganine reductase) (KDS reductase) (Follicular variant translocation protein 1) (FVT-1). [Source:Uniprot/SWISSPROT;Acc:Q06136]		15.912	-20.11	0.00512571	1182	18	7	31 [+]
GABRA1	γ -Aminobutyric-acid receptor subunit α -1 precursor (GABA(A) receptor subunit α -1). [Source:Uniprot/SWISSPROT;Acc:P14867]		16.677	-19.06	0.0218804	1000	9	8	13 [+]
GCSI_HUMAN	Mannosyl-oligosaccharide glucosidase (EC 3.2.1.106) (Processing A- glucosidase I). [Source:Uniprot/SWISSPROT;Acc:Q13724]		16.857	-12.49	0.00105775	198	11	8	38 [+]
GEMIN8	Gem-associated protein 8 (Protein FAM51A1). [Source:Uniprot/SWISSPROT;Acc:Q9NWZ8]		15.725	-16.18	0.00012807	241	15	5	69 [+]
GGPS1	Geranylgeranyl pyrophosphate synthetase (GGPP synthetase) (GGPPSase) (Geranylgeranyl diphosphate synthase) [Includes: Dimethylallyltranstransferase (EC 2.5.1.1); Geranyltranstransferase (EC 2.5.1.10); Farnesyltranstransferase (EC 2.5.1.29)]. [Source:Uniprot/SWISSPROT;Acc:O95749]		16.67	-11.84	4.37E-05	320	18	3	62 [+]

GHITM	Growth hormone-inducible transmembrane protein (Dermal papilla-derived protein 2) (Transmembrane BAX inhibitor motif-containing protein 5). [Source:Uniprot/SWISSPROT;Acc:Q9H3K2]		15.424	-10.15	0.0193679	897	24	5	35 [+]
GLB1L	Galactosidase, β 1-like [Source:RefSeq_peptide;Acc:NP_078782]		15.727	-18.21	0.0352741	461	21	6	60 [+]
GLT8D1	Glycosyltransferase 8 domain containing 1 [Source:RefSeq_peptide;Acc:NP_690909]		16.441	-18.02	0.00101023	353	20	8	61 [+]
GOLGA8A	Golgin subfamily A member 8A/B (Golgi autoantigen golgin-67) (88 kDa Golgi protein) (Gm88 autoantigen). [Source:Uniprot/SWISSPROT;Acc:Q9NZW0]		16.065	-17.28	0.0499184	152	9	2	24 [+]
GOT1	Aspartate aminotransferase, cytoplasmic (EC 2.6.1.1) (Transaminase A) (Glutamate oxaloacetate transaminase 1). [Source:Uniprot/SWISSPROT;Acc:P17174]		15.719	-15.44	0.0013194	646	20	6	38 [+]
GOT2	Aspartate aminotransferase, mitochondrial precursor (EC 2.6.1.1) (Transaminase A) (Glutamate oxaloacetate transaminase 2). [Source:Uniprot/SWISSPROT;Acc:P00505]		15.674	-17.04	0.0024425	1038	12	2	16 [+]

GPBP1	Vasculin [Source:RefSeq_peptide;Acc:NP_075064]		16.229	-10.27	0.0419452	330	16	1	43 [+]
GPR174	Probable G-protein coupled receptor 174. [Source:Uniprot/SWISSPROT;Acc:Q9BXC1]		15.838	-8.13	0.00380965	220	11	3	40 [+]
GPR176	Probable G-protein coupled receptor 176 (HB-954). [Source:Uniprot/SWISSPROT;Acc:Q14439]		15.988	-17.12	0.00552794	402	23	6	54 [+]
GPR177	Integral membrane protein GPR177 precursor (Protein wntless homolog) (Putative NFkB-activating protein 373). [Source:Uniprot/SWISSPROT;Acc:Q5T9L3]		16.383	-17.23	0.0364616	638	21	1	29 [+]
GPR22	Probable G-protein coupled receptor 22. [Source:Uniprot/SWISSPROT;Acc:Q99680]		16.404	-10.72	0.0186462	291	17	6	48 [+]
GPR78	Probable G-protein coupled receptor 78. [Source:Uniprot/SWISSPROT;Acc:Q96P69]		16.497	-16.92	0.033371	1103	7	1	9 [+]
GPSM1	G-protein-signaling modulator 1 (Activator of G-protein signaling 3). [Source:Uniprot/SWISSPROT;Acc:Q86YR5]		17.797	-13.82	9.71E-05	369	18	2	65 [+]
GPSM2	G-protein-signaling modulator 2 (Mosaic protein LGN). [Source:Uniprot/SWISSPROT;Acc:P81274]		15.741	-9.76	0.00888063	481	20	3	38 [+]

GRIP2	Glutamate receptor-interacting protein 2 (GRIP2 protein). [Source:Uniprot/SWISSPROT;Acc:Q9C0E4]		15.334	-12.47	0.00445821	1000	16	1	18 [+]
GRK5	G protein-coupled receptor kinase 5 (EC 2.7.11.16) (G protein-coupled receptor kinase GRK5). [Source:Uniprot/SWISSPROT;Acc:P34947]		16.942	-13.41	0.00141653	474	20	1	46 [+]
GRM1	Metabotropic glutamate receptor 1 precursor (mGluR1). [Source:Uniprot/SWISSPROT;Acc:Q13255]		18.554	-18.86	0.00478961	204	11	1	46 [+]
GTF2E2	Transcription initiation factor IIE subunit beta (TFIIE-beta) (General transcription factor IIE subunit 2). [Source:Uniprot/SWISSPROT;Acc:P29084]		17.019	-16.61	0.00479664	558	27	5	56 [+]
GTPBP3	tRNA modification GTPase GTPBP3, mitochondrial precursor (GTP-binding protein 3) (Mitochondrial GTP-binding protein 1). [Source:Uniprot/SWISSPROT;Acc:Q969Y2]		16.424	-14.75	0.0357285	1000	14	1	18 [+]
GUCA1B	Guanylyl cyclase-activating protein 2 (GCAP 2) (Guanylate cyclase activator 1B). [Source:Uniprot/SWISSPROT;Acc:Q9UMX6]		15.31	-16.75	0.00899486	1530	15	4	18 [+]

GZMK	Granzyme K precursor (EC 3.4.21.-) (Granzyme-3) (NK-tryptase-2) (NK-TRYP-2) (Fragmentin-3). [Source:Uniprot/SWISSPROT;Acc:P49863]	15.724	-22.68	0.00125305	644	20	5	44 [+]
GZMK	Granzyme K precursor (EC 3.4.21.-) (Granzyme-3) (NK-tryptase-2) (NK-TRYP-2) (Fragmentin-3). [Source:Uniprot/SWISSPROT;Acc:P49863]	17.083	-22.68	0.0192564	206	12	1	40 [+]
HAO1	Hydroxyacid oxidase 1 (EC 1.1.3.15) (HAOX1) (Glycolate oxidase) (GOX). [Source:Uniprot/SWISSPROT;Acc:Q9UJM8]	16.15	-11.91	0.004077	610	26	9	45 [+]
HCN2	Potassium/sodium hyperpolarization-activated cyclic nucleotide-gated channel 2 (Brain cyclic nucleotide-gated channel 2) (BCNG-2). [Source:Uniprot/SWISSPROT;Acc:Q9UL51]	17.179	-21.14	0.00106629	683	20	4	38 [+]
HCRTR1	Orexin receptor type 1 (Ox1r) (Hypocretin receptor type 1). [Source:Uniprot/SWISSPROT;Acc:O43613]	16.63	-20.7	0.00195368	211	14	4	60 [+]
HEATR3	HEAT repeat-containing protein 3. [Source:Uniprot/SWISSPROT;Acc:Q7Z4Q2]	16.321	-10.07	0.00018778	401	20	5	54 [+]

HEMGN	Hemogen (Hemopoietic gene protein) (Negative differentiation regulator protein) (Erythroid differentiation-associated gene protein) (EDAG-1). [Source:Uniprot/SWISSPROT;Acc:Q9BXL5]		16.625	-14.32	0.0296103	591	19	1	25 [+]
HEMGN	Hemogen (Hemopoietic gene protein) (Negative differentiation regulator protein) (Erythroid differentiation-associated gene protein) (EDAG-1). [Source:Uniprot/SWISSPROT;Acc:Q9BXL5]		16.618	-14.32	0.0298006	593	20	5	29 [+]
HEPHL1	Hephaestin-like protein 1 (Fragment). [Source:Uniprot/SPTREMBL;Acc:Q6MZM0]		15.34	-13.63	0.00441155	1857	4	1	3 [+]
HES6	Transcription cofactor HES-6 (Hairy and enhancer of split 6) (C-HAIRY1). [Source:Uniprot/SWISSPROT;Acc:Q96HZ4]		15.632	-17.29	0.00067815	1000	24	4	32 [+]
HIG2_HUMAN	Hypoxia-inducible gene 2 protein. [Source:Uniprot/SWISSPROT;Acc:Q9Y5L2]		16.038	-15.2	0.0498608	956	15	3	24 [+]
HIGD2A	HIG1 domain family member 2A. [Source:Uniprot/SWISSPROT;Acc:Q9BW72]		17.649	-13.48	0.00795678	262	14	6	57 [+]

HIGD2BP	HIG1 domain family, member 2B pseudogene (HIGD2BP) on chromosome 15 [Source:RefSeq_dna;Acc:NR_002780]		16.97	-13.34	0.0214202	240	11	2	31 [+]
HIST1H3H	Histone H2A type 1 (H2A.1). [Source:Uniprot/SWISSPROT;Acc:P0C0S8]		17.73	-18.42	0.0104547	361	18	1	55 [+]
HIST1H3H	Histone H2A type 1 (H2A.1). [Source:Uniprot/SWISSPROT;Acc:P0C0S8]		16.26	-18.42	0.0416221	816	18	1	29 [+]
HLA-B	HLA class I histocompatibility antigen, B-7 alpha chain precursor (MHC class I antigen B*7). [Source:Uniprot/SWISSPROT;Acc:P01889]		15.851	-13.14	0.00363344	435	15	1	26 [+]
HLA-C	HLA class I histocompatibility antigen, Cw-7 alpha chain precursor (MHC class I antigen Cw*7). [Source:Uniprot/SWISSPROT;Acc:P10321]		15.887	-13.14	0.00341427	426	14	1	21 [+]
HLA-DRA	Major histocompatibility complex, class II, DR alpha precursor [Source:RefSeq_peptide;Acc:NP_061984]		15.781	-16.74	0.00144103	548	23	4	53 [+]
HLA-J	MHC class I HLA-J antigen (Fragment). [Source:Uniprot/SPTREMBL;Acc:Q30175]		16.236	-13.51	0.0425829	506	19	1	38 [+]

HMBS	Porphobilinogen deaminase (EC 2.5.1.61) (Hydroxymethylbilane synthase) (HMBS) (Pre-uroporphyrinogen synthase) (PBG-D). [Source:Uniprot/SWISSPROT;Acc:P08397]		17.988	-15.57	6.83E-06	266	17	6	61 [+]
HMGB2	High mobility group protein B2 (High mobility group protein 2) (HMG- 2). [Source:Uniprot/SWISSPROT;Acc:P26583]		17.824	-19.77	0.00333138	372	20	6	60 [+]
HMGCL	Hydroxymethylglutaryl-CoA lyase, mitochondrial precursor (EC 4.1.3.4) (HMG-CoA lyase) (HL) (3-hydroxy-3-methylglutarate-CoA lyase). [Source:Uniprot/SWISSPROT;Acc:P35914]		15.757	-13.03	0.0001345	631	24	5	37 [+]
HMGCL	Hydroxymethylglutaryl-CoA lyase, mitochondrial precursor (EC 4.1.3.4) (HMG-CoA lyase) (HL) (3-hydroxy-3-methylglutarate-CoA lyase). [Source:Uniprot/SWISSPROT;Acc:P35914]		15.909	-13.03	0.00015228	576	17	1	23 [+]
HMGCL	Hydroxymethylglutaryl-CoA lyase, mitochondrial precursor (EC 4.1.3.4) (HMG-CoA lyase) (HL) (3-hydroxy-3-methylglutarate-CoA lyase). [Source:Uniprot/SWISSPROT;Acc:P35914]		15.903	-13.03	0.00015455	578	17	1	23 [+]

HOMER2	Homer protein homolog 2 (Homer-2) (Cupidin). [Source:Uniprot/SWISSPROT;Acc:Q9NSB8]	15.983	-14.22	0.0164537	729	23	7	43 [+]
HOOK3	Hook homolog 3 (hHK3). [Source:Uniprot/SWISSPROT;Acc:Q86VS8]	17.417	-23.66	0.0125022	1286	17	5	17 [+]
HOXB5	Homeobox protein Hox-B5 (Hox-2A) (HHO.C10) (HU-1). [Source:Uniprot/SWISSPROT;Acc:P09067]	16.234	-22.96	7.88E-06	951	16	7	29 [+]
HS2ST1	Heparan sulfate 2-O-sulfotransferase 1 (EC 2.8.2.-) (2-O- sulfotransferase) (2OST). [Source:Uniprot/SWISSPROT;Acc:Q7LGA3]	16.389	-19.81	0.0369292	1025	12	1	12 [+]
HS2ST1	Heparan sulfate 2-O-sulfotransferase 1 (EC 2.8.2.-) (2-O- sulfotransferase) (2OST). [Source:Uniprot/SWISSPROT;Acc:Q7LGA3]	16.384	-19.81	0.0370935	1028	12	1	12 [+]
HSD11B1	Corticosteroid 11-beta-dehydrogenase isozyme 1 (EC 1.1.1.146) (11-DH) (11-beta-hydroxysteroid dehydrogenase 1) (11-beta-HSD1). [Source:Uniprot/SWISSPROT;Acc:P28845]	16.404	-8.67	0.00053249	343	15	4	64 [+]

HSD3B1	3β-Hydroxysteroid dehydrogenase/δ5->4-isomerase type I (3β-HSD I) (Trophoblast antigen FDO161G) [Includes: 3β-hydroxy-δ(5)-steroid dehydrogenase (EC 1.1.1.145) (3-beta-hydroxy-5-ene steroid dehydrogenase) (Progesterone reductase); [Source:Uniprot/SWISSPROT;Acc:P14060]		16.941	-12.01	0.0219994	409	14	1	33 [+]
HSP90AB1	Heat shock protein HSP 90-beta (HSP 84) (HSP 90). [Source:Uniprot/SWISSPROT;Acc:P08238]		18.327	-20.87	0.00593613	285	17	1	53 [+]
HSP90AB1	Heat shock protein HSP 90-beta (HSP 84) (HSP 90). [Source:Uniprot/SWISSPROT;Acc:P08238]		16.13	-20.87	0.0111264	1000	16	2	18 [+]
HSP90AB1	Heat shock protein HSP 90-beta (HSP 84) (HSP 90). [Source:Uniprot/SWISSPROT;Acc:P08238]		16.13	-20.87	0.0469724	1000	11	1	13 [+]
HSP90AB1	Heat shock protein HSP 90-beta (HSP 84) (HSP 90). [Source:Uniprot/SWISSPROT;Acc:P08238]		16.13	-20.87	0.0469724	1000	12	1	12 [+]
HSP90AB6P	Heat shock protein 90Bf. [Source:Uniprot/SPTREMBL;Acc:Q58FF4]		16.645	-17.01	0.0290639	1000	6	2	8 [+]

HSP90B1	Endoplasmic precursor (Heat shock protein 90 kDa beta member 1) (94 kDa glucose-regulated protein) (GRP94) (gp96 homolog) (Tumor rejection antigen 1). [Source:Uniprot/SWISSPROT;Acc:P14625]		15.838	-11.74	0.00680585	239	12	8	49 [+]
HSPA1L	Heat shock 70 kDa protein 1L (Heat shock 70 kDa protein 1-like) (Heat shock 70 kDa protein 1-Hom) (HSP70-Hom). [Source:Uniprot/SWISSPROT;Acc:P34931]		17.132	-14.85	0.00094299	310	16	6	43 [+]
ID4	DNA-binding protein inhibitor ID-4 (Inhibitor of DNA binding 4). [Source:Uniprot/SWISSPROT;Acc:P47928]		15.455	-18.24	0.00801788	1489	8	3	9 [+]
IDH1	Isocitrate dehydrogenase [NADP] cytoplasmic (EC 1.1.1.42) (Cytosolic NADP-isocitrate dehydrogenase) (Oxalosuccinate decarboxylase) (IDH) (NADP(+)-specific ICDH) (IDP). [Source:Uniprot/SWISSPROT;Acc:O75874]		16.143	-15.65	2.92E-05	849	17	5	24 [+]
IFNA17	Interferon alpha-17 precursor (Interferon alpha-I) (Interferon alpha-T) (Interferon alpha-88). [Source:Uniprot/SWISSPROT;Acc:P01571]		17.483	-13.76	0.0131978	361	14	1	44 [+]

IFNG	Interferon gamma precursor (IFN-gamma) (Immune interferon). [Source:Uniprot/SWISSPROT;Acc:P01579]		16.307	-19.1	0.0127219	584	16	7	32 [+]
IFT74	Intraflagellar transport 74 homolog (Coiled-coil domain-containing protein 2) (Capillary morphogenesis protein 1) (CMG-1). [Source:Uniprot/SWISSPROT;Acc:Q96LB3]		18.554	-13.49	0.00478961	194	9	6	34 [+]
IFT80	Tripartite motif-containing protein 59 (Tumor suppressor TSBF-1) (RING finger protein 104). [Source:Uniprot/SWISSPROT;Acc:Q8IWR1]		15.365	-14.2	0.00817918	324	17	2	55 [+]
IGLV2-23	Immunoglobulin Lambda light chain V gene segment [Source:IMGT/GENE_DB;Acc:IGLV2-23]		16.994	-20.53	0.0209343	1000	15	1	13 [+]
IL12RB1	Interleukin-12 receptor beta-1 chain precursor (IL-12R-beta1) (Interleukin-12 receptor beta) (IL-12 receptor beta component) (IL- 12RB1) (CD212 antigen). [Source:Uniprot/SWISSPROT;Acc:P42701]		15.454	-16.03	0.0028744	1000	19	3	27 [+]
IL18R1	Interleukin-18 receptor 1 precursor (IL1 receptor-related protein) (IL-1Rrp) (CD218a antigen) (CDw218a). [Source:Uniprot/SWISSPROT;Acc:Q13478]		16.026	-20.09	0.0494748	1872	5	2	6 [+]

IL1R1	Interleukin-1 receptor type I precursor (IL-1R-1) (IL-1RT1) (IL-1R- alpha) (p80) (CD121a antigen). [Source:Uniprot/SWISSPROT;Acc:P14778]		15.499	-11.59	0.00166844	137	7	4	22 [+]
IL2	Interleukin-2 precursor (IL-2) (T-cell growth factor) (TCGF) (Aldesleukin). [Source:Uniprot/SWISSPROT;Acc:P60568]		19.119	-17.37	0.00061307	277	15	5	47 [+]
IMPG1	Interphotoreceptor matrix proteoglycan 1 precursor (Interphotoreceptor matrix proteoglycan of 150 kDa) (IPM-150) (Sialoprotein associated with cones and rods). [Source:Uniprot/SWISSPROT;Acc:Q17R60]		15.389	-12.85	0.0170531	744	17	3	32 [+]
INCENP	Inner centromere protein. [Source:Uniprot/SWISSPROT;Acc:Q9NQS7]		16.356	-12.48	0.00290338	348	20	5	86 [+]
ING5	Inhibitor of growth protein 5 (p28ING5). [Source:Uniprot/SWISSPROT;Acc:Q8WYH8]		16.102	-12.11	0.0470817	454	17	1	39 [+]
INPP4B	Type II inositol-3,4-bisphosphate 4-phosphatase (EC 3.1.3.66) (Inositol polyphosphate 4-phosphatase type II). [Source:Uniprot/SWISSPROT;Acc:O15327]		15.515	-13.22	0.00842111	749	20	3	30 [+]

IPPK	Inositol-pentakisphosphate 2-kinase (EC 2.7.1.158) (Inositol- 1,3,4,5,6-pentakisphosphate 2-kinase) (Ins(1,3,4,5,6)P5 2-kinase) (InsP5 2-kinase) (IPK1 homolog). [Source:Uniprot/SWISSPROT;Acc:Q9H8X2]		18.18	-14.04	0.00284642	305	15	1	48 [+]
IQCA	IQ and AAA domain-containing protein. [Source:Uniprot/SWISSPROT;Acc:Q86XH1]		17.087	-21.77	0.0191817	1029	8	1	9 [+]
IQCF1	IQ domain-containing protein F1. [Source:Uniprot/SWISSPROT;Acc:Q8N6M8]		16.13	-14.74	0.0469724	1000	16	3	17 [+]
ITFG1	T-cell immunomodulatory protein precursor (Protein TIP) (Integrin alpha FG-GAP repeat-containing protein 1). [Source:Uniprot/SWISSPROT;Acc:Q8TB96]		15.684	-14.86	0.0146537	316	16	6	62 [+]
ITGA4	Integrin alpha-4 precursor (Integrin alpha-IV) (VLA-4) (CD49d antigen). [Source:Uniprot/SWISSPROT;Acc:P13612]		16.41	-12.91	0.036196	367	17	1	34 [+]
ITGAL	Integrin alpha-L precursor (Leukocyte adhesion glycoprotein LFA-1 alpha chain) (LFA-1A) (Leukocyte function-associated molecule 1 alpha chain) (CD11a antigen). [Source:Uniprot/SWISSPROT;Acc:P20701]		15.543	-27.5	0.0437751	1285	18	3	27 [+]

ITGB8	Integrin beta-8 precursor. [Source:Uniprot/SWISSPROT;Acc:P26012]		15.786	-10.98	0.00954304	799	20	7	35 [+]
ITLN1	Intelectin-1 precursor (Intestinal lactoferrin receptor) (Galactofuranose-binding lectin) (Endothelial lectin HL-1) (Omentin). [Source:Uniprot/SWISSPROT;Acc:Q8WWA0]		16.404	-19.59	0.0357474	122	6	3	19 [+]
ITPR2	Inositol 1,4,5-trisphosphate receptor type 2 (Type 2 inositol 1,4,5-trisphosphate receptor) (Type 2 InsP3 receptor) (IP3 receptor isoform 2) (InsP3R2). [Source:Uniprot/SWISSPROT;Acc:Q14571]		16.545	-18.19	0.031907	1000	12	1	14 [+]
ITSN2	Intersectin-2 (SH3 domain-containing protein 1B) (SH3P18) (SH3P18-like WASP-associated protein). [Source:Uniprot/SWISSPROT;Acc:Q9NZM3]		16.988	-20.1	0.0204496	762	19	6	27 [+]
ITSN2	Intersectin-2 (SH3 domain-containing protein 1B) (SH3P18) (SH3P18-like WASP-associated protein). [Source:Uniprot/SWISSPROT;Acc:Q9NZM3]		16.993	-20.1	0.0207409	760	10	1	13 [+]

JMJD2C	JmjC domain-containing histone demethylation protein 3C (EC 1.14.11.-) (Jumonji domain-containing protein 2C) (Gene amplified in squamous cell carcinoma 1 protein) (GASC-1 protein). [Source:Uniprot/SWISSPROT;Acc:Q9H3R0]		16.155	-16.65	0.0459	892	13	1	14 [+]
KCNE2	Potassium voltage-gated channel subfamily E member 2 (Minimum potassium ion channel-related peptide 1) (Potassium channel subunit beta MiRP1) (MinK-related peptide 1). [Source:Uniprot/SWISSPROT;Acc:Q9Y6J6]		17.196	-17.5	0.0171604	288	15	5	55 [+]
KCNMA1	Calcium-activated potassium channel subunit alpha 1 (Calcium-activated potassium channel, subfamily M subunit alpha 1) (Maxi K channel) (MaxiK) (BK channel) (K(VCA)alpha) (BKCA alpha) (KCa1.1) (Slowpoke homolog) (Slo homolog) (Slo-alpha) (Slo1) (hSlo). [Source:Uniprot/SWISSPROT;Acc:Q12791]		16.63	-11.75	0.0290295	272	13	1	25 [+]

KCNQ2	Potassium voltage-gated channel subfamily KQT member 2 (Voltage-gated potassium channel subunit Kv7.2) (Neuroblastoma-specific potassium channel subunit alpha KvLQT2) (KQT-like 2). [Source:Uniprot/SWISSPROT;Acc:O43526]	16.065	-13.3	0.0499184	197	12	1	41 [+]
KDELR3	ER lumen protein retaining receptor 3 (KDEL receptor 3) (KDEL endoplasmic reticulum protein retention receptor 3). [Source:Uniprot/SWISSPROT;Acc:O43731]	15.389	-10.26	6.17E-05	904	17	3	21 [+]
KIAA0090	Uncharacterized protein KIAA0090 precursor. [Source:Uniprot/SWISSPROT;Acc:Q8N766]	17.257	-10.02	0.0163434	359	16	1	54 [+]
KIAA0195	Uncharacterized protein KIAA0195 (Transmembrane protein 94). [Source:Uniprot/SWISSPROT;Acc:Q12767]	17.328	-21.74	0.00010713	748	21	6	30 [+]
KIAA0195	Uncharacterized protein KIAA0195 (Transmembrane protein 94). [Source:Uniprot/SWISSPROT;Acc:Q12767]	16.827	-21.74	0.00308792	1000	12	1	16 [+]
KIAA0196	Uncharacterized protein KIAA0196. [Source:Uniprot/SWISSPROT;Acc:Q12768]	17.235	-11.94	0.00186255	350	19	8	67 [+]
KIAA0241	KIAA0241 (KIAA0241), mRNA [Source:RefSeq_dna;Acc:NM_015060]	16.404	-12.47	0.00073789	260	15	6	74 [+]

KIAA0423	Uncharacterized protein KIAA0423. [Source:Uniprot/SWISSPROT;Acc:Q9Y4F4]		16.46	-17.23	0.0111014	869	17	6	29 [+]
KIAA0460	Uncharacterized protein KIAA0460. [Source:Uniprot/SWISSPROT;Acc:Q5VT52]		16.959	-22.98	0.0216319	577	14	1	26 [+]
KIAA0467	Uncharacterized protein KIAA0467. [Source:Uniprot/SWISSPROT;Acc:Q5T011]		16.463	-10.77	0.0046414	567	15	1	22 [+]
KIAA0528	Uncharacterized protein KIAA0528. [Source:Uniprot/SWISSPROT;Acc:Q86YS7]		16.147	-15.79	0.00100294	1153	13	3	15 [+]
KIAA0802	Uncharacterized protein KIAA0802. [Source:Uniprot/SWISSPROT;Acc:Q9Y4B5]		16.728	-17.13	0.00011627	488	17	7	28 [+]
KIAA1546	KIAA1546 (KIAA1546), mRNA [Source:RefSeq_dna;Acc:NM_017628]		15.474	-22.89	0.00402751	1000	12	1	13 [+]
KIAA1632	KIAA1632 (KIAA1632), mRNA [Source:RefSeq_dna;Acc:NM_020964]		15.838	-8.09	0.00075495	81	2	3	6 [+]
KIAA2013	KIAA2013 (KIAA2013), mRNA [Source:RefSeq_dna;Acc:NM_138346]		15.74	-16.18	0.00010344	724	19	1	30 [+]
KIF13A	Kinesin-like protein KIF13A (Kinesin-like protein RBKIN). [Source:Uniprot/SWISSPROT;Acc:Q9H1H9]		16.268	-20.01	0.00816336	413	19	3	45 [+]

KIF13A	Kinesin-like protein KIF13A (Kinesin-like protein RBKIN). [Source:Uniprot/SWISSPROT;Acc:Q9H1H9]		16.26	-20.01	0.0407914	415	17	1	29 [+]
KIF27	Kinesin family member 27 [Source:RefSeq_peptide;Acc:NP_060046]		15.369	-9.99	0.00106843	303	14	4	44 [+]
KIF3A	Kinesin-like protein KIF3A (Microtubule plus end-directed kinesin motor 3A). [Source:Uniprot/SWISSPROT;Acc:Q9Y496]		15.656	-15.6	0.00095287	1004	18	4	21 [+]
KIF3A	Kinesin-like protein KIF3A (Microtubule plus end-directed kinesin motor 3A). [Source:Uniprot/SWISSPROT;Acc:Q9Y496]		15.663	-15.6	0.00355429	1000	15	1	13 [+]
KIR2DL1	Killer cell immunoglobulin-like receptor 3DL2 precursor (MHC class I NK cell receptor) (Natural killer-associated transcript 4) (NKAT-4) (p70 natural killer cell receptor clone CL-5) (CD158k antigen). [Source:Uniprot/SWISSPROT;Acc:P43630]		16.866	-16.47	0.0236137	509	17	1	43 [+]
KL	Klotho precursor (EC 3.2.1.31) [Contains: Klotho peptide]. [Source:Uniprot/SWISSPROT;Acc:Q9UEF7]		16.181	-15.57	0.0447994	1959	10	3	10 [+]

KLF12	Krüppel-like factor 12 (Transcriptional repressor AP-2rep). [Source:Uniprot/SWISSPROT;Acc:Q9Y4X4]	16.255	-8	0.0418339	579	16	1	20 [+]
KLF6	Krüppel-like factor 6 (Core promoter element-binding protein) (B-cell-derived protein 1) (Proto-oncogene BCD1) (Transcription factor Zf9) (GC-rich sites-binding factor GBF). [Source:Uniprot/SWISSPROT;Acc:Q99612]	17.312	-20.24	0.0155096	599	19	1	27 [+]
KLHDC4	Kelch domain-containing protein 4. [Source:Uniprot/SWISSPROT;Acc:Q8TBB5]	15.386	-17.97	6.23E-05	264	14	3	78 [+]
KLK13	Kallikrein-13 precursor (EC 3.4.21.-) (Kallikrein-like protein 4) (KLK-L4). [Source:Uniprot/SWISSPROT;Acc:Q9UKR3]	16.743	-12.09	0.00137975	381	20	3	41 [+]
KLRD1	Natural killer cells antigen CD94 (NK cell receptor) (Killer cell lectin-like receptor subfamily D member 1) (KP43). [Source:Uniprot/SWISSPROT;Acc:Q13241]	16.178	-15.48	0.0439477	184	10	1	36 [+]
KLRD1	Natural killer cells antigen CD94 (NK cell receptor) (Killer cell lectin-like receptor subfamily D member 1) (KP43). [Source:Uniprot/SWISSPROT;Acc:Q13241]	16.178	-15.48	0.0439477	208	12	3	45 [+]

KRT28	Keratin 25D [Source:RefSeq_peptide;Acc:NP_853513]		15.952	-14.92	0.00013832	224	11	6	38 [+]
KRTAP10-10	Keratin-associated protein 10-10 (Keratin-associated protein 10.10) (High sulfur keratin-associated protein 10.10) (Keratin-associated protein 18-10) (Keratin-associated protein 18.10). [Source:Uniprot/SWISSPROT;Acc:P60014]		16.065	-12.06	0.0499184	280	14	1	40 [+]
LACE1	Lactation elevated protein 1. [Source:Uniprot/SWISSPROT;Acc:Q8WV93]		16.546	-15.65	0.0135801	630	16	8	32 [+]
LAMA1	Laminin subunit alpha-1 precursor (Laminin A chain). [Source:Uniprot/SWISSPROT;Acc:P25391]		15.433	-12.11	0.00062002	1000	18	4	28 [+]
LAMC3	Laminin subunit gamma-3 precursor (Laminin 12 gamma 3 subunit). [Source:Uniprot/SWISSPROT;Acc:Q9Y6N6]		16.819	-16.74	0.00319609	306	20	4	70 [+]
LARP6	La-related protein 6 (La ribonucleoprotein domain family member 6) (Acheron). [Source:Uniprot/SWISSPROT;Acc:Q9BRS8]		15.356	-19.37	0.00796395	514	23	6	51 [+]
LAS1L	LAS1-like protein. [Source:Uniprot/SWISSPROT;Acc:Q9Y4W2]		16.97	-15.98	0.00446033	193	9	4	30 [+]
LAS1L	LAS1-like protein. [Source:Uniprot/SWISSPROT;Acc:Q9Y4W2]		16.97	-15.98	0.0214202	192	9	1	23 [+]

LCAT	Solute carrier family 12 member 4 (Electroneutral potassium-chloride cotransporter 1) (Erythroid K-Cl cotransporter 1) (hKCC1). [Source:Uniprot/SWISSPROT;Acc:Q9UP95]		15.359	-12.28	0.00788392	513	25	5	50 [+]
LEFTY2	Left-right determination factor 2 precursor (Protein lefty-2) (Left- right determination factor A) (Protein lefty-A) (Transforming growth factor beta-4) (TGF-beta-4) (Endometrial bleeding-associated factor). [Source:Uniprot/SWISSPROT;Acc:O00292]		16.725	-13.49	0.0269505	837	11	1	13 [+]
LEPRE1	Prolyl 3-hydroxylase 1 precursor (EC 1.14.11.7) (Leucine- and proline-enriched proteoglycan 1) (Leprecan-1) (Growth suppressor 1). [Source:Uniprot/SWISSPROT;Acc:Q32P28]		17.811	-14.38	0.00968127	451	17	1	36 [+]
LHX3	LIM/homeobox protein Lhx3. [Source:Uniprot/SWISSPROT;Acc:Q9UBR4]		16.236	-16.86	0.0417008	881	5	1	6 [+]
LIAS	Lipoic acid synthetase, mitochondrial precursor (Lip-syn) (Lipoate synthase). [Source:Uniprot/SWISSPROT;Acc:O43766]		15.922	-15.59	0.00298033	538	18	4	50 [+]

LILRA5	leukocyte immunoglobulin-like receptor subfamily A member 5 isoform 2 [Source:RefSeq_peptide;Acc:NP_871714]		15.386	-10.59	0.00406873	345	14	3	52 [+]
LMAN1	ERGIC-53 protein precursor (ER-Golgi intermediate compartment 53 kDa protein) (Lectin, mannose-binding 1) (Gp58) (Intracellular mannose- specific lectin MR60). [Source:Uniprot/SWISSPROT;Acc:P49257]		16.517	-11.64	0.00389084	1217	10	4	10 [+]
LMBRD2	LMBR1 domain containing 2 [Source:RefSeq_peptide;Acc:NP_001007528]		16.97	-19.1	0.0164798	734	21	5	28 [+]
LMO1	Rhombotin-1 (LIM domain only protein 1) (Cysteine-rich protein TTG-1) (T-cell translocation protein 1). [Source:Uniprot/SWISSPROT;Acc:P25800]		16.392	-11.84	1.37E-05	302	16	7	48 [+]
LOC145814	RIKEN cDNA C330024D12 gene [Source:MarkerSymbol;Acc:MGI:1925694]RIKEN cDNA C330024D12 gene [Source:MarkerSymbol;Acc:MGI:1925694] BY ORTHOLOGY TO:ENSMUST00000032770		17.762	-16.85	0.0101442	248	13	4	44 [+]

LOC342979	RIKEN cDNA 4432412L15 gene [Source:MarkerSymbol;Acc:MGI:1921587]RIKEN cDNA 4432412L15 gene [Source:MarkerSymbol;Acc:MGI:1921587] BY ORTHOLOGY TO:ENSMUST00000055077		16.927	-25.65	0.0126059	1000	15	3	16 [+]
LOC345630	PREDICTED: Pan troglodytes similar to Expressed sequence AI595406 (LOC471730), mRNA. [Source:RefSeq_dna;Acc:XR_023279]PREDICTED: Pan troglodytes similar to Expressed sequence AI595406 (LOC471730), mRNA. [Source:RefSeq_dna;Acc:XR_023279] BY ORTHOLOGY TO:ENSPTRT00000032368		16.094	-14.33	0.0473998	1000	16	3	23 [+]
LOC388339	40S ribosomal protein S1840S ribosomal protein S18 BY ORTHOLOGY TO:AAEL009747-RA		16.145	-21.47	0.0463428	1000	10	1	8 [+]
LOC390616	Homolog of Homo sapiens "Ankyrin repeat domain 34 [Source:UniGene;Acc:Hs.331667]"Homolog of Homo sapiens "Ankyrin repeat domain 34 [Source:UniGene;Acc:Hs.331667]" BY ORTHOLOGY TO:SINFRUT00000183444		16.23	-15.93	7.88E-05	1000	11	3	17 [+]
LOC399940	NOT ANNOTATED		16.195	-16.75	0.00275965	798	15	1	19 [+]
LOC647839	NOT ANNOTATED		17.875	-16.91	0.00911416	143	7	1	26 [+]
LOC652904	NOT ANNOTATED		17.322	-15.65	0.0038606	485	21	1	36 [+]
LOC652904	NOT ANNOTATED		16.071	-15.65	0.0484069	1000	9	1	8 [+]

LOC728080	NOT ANNOTATED		16.628	-15.49	0.00216782	1000	6	2	7 [+]
LOC728403	NOT ANNOTATED		16.171	-18.61	0.0442197	1000	8	1	9 [+]
LOC728453	NOT ANNOTATED		15.553	-21.41	0.0122442	1000	13	2	14 [+]
LOC728648	NOT ANNOTATED		16.657	-15.22	0.00253632	1000	11	1	12 [+]
LOC728660	NOT ANNOTATED		16.63	-14.76	0.0290295	52	3	1	4 [+]
LOC729078	NOT ANNOTATED		16.63	-14.76	0.0290295	52	3	1	5 [+]
LOC729368	NOT ANNOTATED		16.263	-9.92	0.0415388	324	13	1	32 [+]
LOC730735	NOT ANNOTATED		16.628	-17.1	0.00266058	1000	16	2	20 [+]
LOC731576	High mobility group nucleosomal binding domain 1 [Source:RefSeq_peptide;Acc:NP_001013202]high mobility group nucleosomal binding domain 1 [Source:RefSeq_peptide;Acc:NP_001013202] BY ORTHOLOGY TO:ENSRNOT00000033557		16.125	-18.71	0.00034382	1000	19	1	23 [+]
LPHN2	Latrophilin-2 precursor (Calcium-independent alpha-latrotoxin receptor 2) (Latrophilin homolog 1) (Lectomedin-1). [Source:Uniprot/SWISSPROT;Acc:O95490]		17.792	-26.78	0.00985707	1000	7	1	8 [+]
LRAT	Lecithin retinol acyltransferase (EC 2.3.1.135) (Phosphatidylcholine--retinol O-acyltransferase). [Source:Uniprot/SWISSPROT;Acc:O95237]		15.396	-14.46	0.00853308	1899	8	5	8 [+]
LRBA	Lipopolysaccharide-responsive and beige-like anchor protein (CDC4-like protein) (Beige-like protein). [Source:Uniprot/SWISSPROT;Acc:P50851]		15.343	-13.3	0.00068345	1061	12	4	15 [+]

LRFN2	Leucine-rich repeat and fibronectin type-III domain-containing protein 2 precursor. [Source:Uniprot/SWISSPROT;Acc:Q9ULH4]		16.038	-19.82	0.00327212	357	17	7	63 [+]
LRRC8D	Leucine-rich repeat-containing protein 8D. [Source:Uniprot/SWISSPROT;Acc:Q7L1W4]		17.602	-14.59	1.01E-05	355	19	7	55 [+]
LRRN1	Leucine-rich repeat neuronal protein 1 precursor (Neuronal leucine-rich repeat protein 1) (NLRR-1). [Source:Uniprot/SWISSPROT;Acc:Q6UXK5]		17.128	-15.35	0.00052572	824	19	10	25 [+]
LTV1	LTV1 homolog [Source:RefSeq_peptide;Acc:NP_116249]		16.63	-11.4	0.0290295	285	15	5	57 [+]
LYPLA2	Acyl-protein thioesterase 2 (EC 3.1.2.-) (Lysophospholipase II) (LPL- I). [Source:Uniprot/SWISSPROT;Acc:O95372]		15.77	-13.1	0.0228077	807	23	4	33 [+]
LYPLA2	Acyl-protein thioesterase 2 (EC 3.1.2.-) (Lysophospholipase II) (LPL- I). [Source:Uniprot/SWISSPROT;Acc:O95372]		16.426	-13.1	0.035665	545	17	1	24 [+]
LYZL1	Lysozyme-like protein 1 precursor (EC 3.2.1.17). [Source:Uniprot/SWISSPROT;Acc:Q6UWQ5]		16.291	-11.49	0.0367965	173	9	2	27 [+]

LYZL2	Lysozyme-like protein 2 precursor (EC 3.2.1.17) (Lysozyme-2). [Source:Uniprot/SWISSPROT;Acc:Q7Z4W2]		16.744	-10.85	0.0264944	169	9	2	27 [+]
LYZL4	Lysozyme-like protein 4 precursor. [Source:Uniprot/SWISSPROT;Acc:Q96KX0]		15.612	-18.19	0.0108377	180	10	6	57 [+]
MAB21L1	Mab-21-like protein 1 [Source:RefSeq_peptide;Acc:NP_005575]		15.739	-18.96	4.75E-06	877	20	8	30 [+]
MAB21L2	Mab-21-like protein 2 [Source:RefSeq_peptide;Acc:NP_006430]		16.274	-14.25	0.00182827	551	20	7	39 [+]
MADCAM1	Mucosal addressin cell adhesion molecule 1 precursor (MAdCAM-1) (hMAdCAM-1). [Source:Uniprot/SWISSPROT;Acc:Q13477]		15.66	-14.67	0.00671405	377	17	3	42 [+]
MAGEA4	Melanoma-associated antigen 4 (MAGE-4 antigen) (MAGE-X2) (MAGE-41). [Source:Uniprot/SWISSPROT;Acc:P43358]		16.615	-19.39	0.0298728	552	18	2	28 [+]
MAK10	corneal wound healing-related protein [Source:RefSeq_peptide;Acc:NP_078911]		15.568	-11.91	0.033636	338	16	4	51 [+]
MAOA	Amine oxidase [flavin-containing] A (EC 1.4.3.4) (Monoamine oxidase type A) (MAO-A). [Source:Uniprot/SWISSPROT;Acc:P21397]		16.178	-14.13	0.0439529	2307	5	2	6 [+]

MAP3K10	Mitogen-activated protein kinase kinase kinase 10 (EC 2.7.11.25) (Mixed lineage kinase 2) (Protein kinase MST). [Source:Uniprot/SWISSPROT;Acc:Q02779]	18.667	-21.66	0.00421859	275	15	5	56 [+]
MARK1	Serine/threonine-protein kinase MARK1 (EC 2.7.11.1) (MAP/microtubule affinity-regulating kinase 1). [Source:Uniprot/SWISSPROT;Acc:Q9P0L2]	17.196	-12.41	8.37E-06	292	17	8	59 [+]
MATN3	Matrilin-3 precursor. [Source:Uniprot/SWISSPROT;Acc:O15232]	15.645	-12.77	0.00075741	1000	21	7	24 [+]
MBIP	MAP3K12-binding inhibitory protein 1 (MAPK upstream kinase-binding inhibitory protein) (MUK-binding inhibitory protein). [Source:Uniprot/SWISSPROT;Acc:Q9NS73]	15.343	-14.12	4.26E-05	518	24	6	43 [+]
MBOAT4	Membrane-bound O-acyltransferase domain-containing protein 4 precursor (EC 2.3.-.-) (O-acyltransferase domain-containing protein 4). [Source:Uniprot/SWISSPROT;Acc:Q96T53]	15.68	-16.18	0.0130648	1000	15	3	30 [+]

MCM3	DNA replication licensing factor MCM3 (DNA polymerase alpha holoenzyme-associated protein P1) (RLF subunit beta) (P102 protein) (P1-MCM3). [Source:Uniprot/SWISSPROT;Acc:P25205]	16.011	-24.19	0.0112714	579	23	4	54 [+]
MCPH1	Microcephalin. [Source:Uniprot/SWISSPROT;Acc:Q8NEM0]	16.966	-15.52	0.00121994	572	19	3	44 [+]
MCTP2	Multiple C2-domains with two transmembrane regions 2 [Source:RefSeq_peptide;Acc:NP_060819]	16.343	-14.67	0.0385408	707	15	1	19 [+]
MDH1B	Malate dehydrogenase 1B, NAD (soluble) [Source:RefSeq_peptide;Acc:NP_001034934]	15.838	-9.5	6.62E-06	152	8	6	24 [+]
MED25	ARC/mediator transcriptional coactivator subunit [Source:RefSeq_peptide;Acc:NP_112235]	15.957	-19.9	0.00051118	1000	20	4	30 [+]
MELK	Maternal embryonic leucine zipper kinase (EC 2.7.11.1) (hMELK) (Protein kinase PK38) (hPK38). [Source:Uniprot/SWISSPROT;Acc:Q14680]	17.936	-15.51	8.56E-05	344	19	6	69 [+]
MEPE	Matrix extracellular phosphoglycoprotein precursor (Osteoblast/osteocyte factor 45) (OF45). [Source:Uniprot/SWISSPROT;Acc:Q9NQ76]	17.63	-13.31	0.00401369	368	19	3	54 [+]

MERTK	Proto-oncogene tyrosine-protein kinase MER precursor (EC 2.7.10.1) (C- mer) (Receptor tyrosine kinase MerTK). [Source:Uniprot/SWISSPROT;Acc:Q12866]	15.932	-14.8	0.0197166	501	20	5	40 [+]
METAP2	Methionine aminopeptidase 2 (EC 3.4.11.18) (MetAP 2) (Peptidase M 2) (Initiation factor 2-associated 67 kDa glycoprotein) (p67) (p67eIF2). [Source:Uniprot/SWISSPROT;Acc:P50579]	16.052	-17.08	0.00070167	439	17	7	30 [+]
METT11D1	Methyltransferase 11 domain containing 1 isoform 2 [Source:RefSeq_peptide;Acc:NP_073571]	16.166	-18.12	0.00412675	1000	15	3	16 [+]
METT11D1	Methyltransferase 11 domain containing 1 isoform 2 [Source:RefSeq_peptide;Acc:NP_073571]	16.166	-18.12	0.00412675	1000	14	1	13 [+]
METT5D1	Methyltransferase 5 domain containing 1 [Source:RefSeq_peptide;Acc:NP_689849]	15.832	-14.29	0.00360483	1000	16	2	19 [+]
MGMT	Methylated-DNA--protein-cysteine methyltransferase (EC 2.1.1.63) (6-O-methylguanine-DNA methyltransferase) (MGMT) (O-6-methylguanine-DNA-alkyltransferase). [Source:Uniprot/SWISSPROT;Acc:P16455]	15.838	-14.15	0.00635641	101	6	4	29 [+]

MIA2	Melanoma inhibitory activity protein 2 precursor. [Source:Uniprot/SWISSPROT;Acc:Q96PC5]		15.94	-11.96	0.00403558	388	15	2	48 [+]
MINA	MYC induced nuclear antigen isoform b [Source:RefSeq_peptide;Acc:NP_116167]		15.637	-14.34	0.00739791	833	11	6	14 [+]
MLF1	Myeloid leukemia factor 1 (Myelodysplasia-myeloid leukemia factor 1). [Source:Uniprot/SWISSPROT;Acc:P58340]		17.422	-15.88	7.09E-06	190	12	7	59 [+]
MMP7	Matrilysin precursor (EC 3.4.24.23) (Pump-1 protease) (Uterine metalloproteinase) (Matrix metalloproteinase-7) (MMP-7) (Matrin). [Source:Uniprot/SWISSPROT;Acc:P09237]		17.422	-13.56	0.00041742	267	16	4	59 [+]
MOGAT1	2-Acylglycerol O-acyltransferase 1 (EC 2.3.1.22) (Monoacylglycerol O-acyltransferase 1) (Acyl CoA:monoacylglycerol acyltransferase 1) (MGAT1) (Diacylglycerol acyltransferase 2-like protein 1) (Diacylglycerol O-acyltransferase candidate 2) (hDC2). [Source:Uniprot/SWISSPROT;Acc:Q96PD6]		17.964	-18.23	0.00484494	1000	14	4	19 [+]

MORC3	MORC family CW-type zinc finger protein 3 (Zinc finger CW-type coiled-coil domain protein 3). [Source:Uniprot/SWISSPROT;Acc:Q14149]		15.427	-20.27	6.42E-05	1349	16	5	16 [+]
MOSC2	MOSC domain-containing protein 2, mitochondrial precursor (EC 1.-.-.). [Source:Uniprot/SWISSPROT;Acc:Q969Z3]		16.97	-10.6	0.0214202	298	12	1	29 [+]
MPHOSPH6	M-phase phosphoprotein 6. [Source:Uniprot/SWISSPROT;Acc:Q99547]		15.968	-14.77	0.00020959	564	15	7	28 [+]
MRAS	Ras-related protein M-Ras precursor (Ras-related protein R-Ras3). [Source:Uniprot/SWISSPROT;Acc:O14807]		15.45	-13.99	0.00115695	498	24	6	69 [+]
MRPL12	39S ribosomal protein L12, mitochondrial precursor (L12mt) (MRP-L12) (5c5-2). [Source:Uniprot/SWISSPROT;Acc:P52815]		18.214	-17.32	0.00152647	276	16	4	65 [+]
MRPL12	39S ribosomal protein L12, mitochondrial precursor (L12mt) (MRP-L12) (5c5-2). [Source:Uniprot/SWISSPROT;Acc:P52815]		17.996	-17.32	0.00812881	334	19	1	45 [+]
MRPL13	39S ribosomal protein L13, mitochondrial (L13mt) (MRP-L13). [Source:Uniprot/SWISSPROT;Acc:Q9BYD1]		17.083	-13.09	7.32E-05	260	14	4	42 [+]

MRPS21	Mitochondrial 28S ribosomal protein S21 (S21mt) (MRP-S21). [Source:Uniprot/SWISSPROT;Acc:P82921]		16.848	-15.55	0.0240136	752	14	1	16 [+]
MRPS21	Mitochondrial 28S ribosomal protein S21 (S21mt) (MRP-S21). [Source:Uniprot/SWISSPROT;Acc:P82921]		16.172	-15.55	0.0452053	1121	7	1	8 [+]
MRPS23	Mitochondrial ribosomal protein S23 (S23mt) (MRP-S23). [Source:Uniprot/SWISSPROT;Acc:Q9Y3D9]		18.554	-23.22	0.00478961	296	17	6	61 [+]
MST1	Hepatocyte growth factor-like protein precursor (Macrophage stimulatory protein) (MSP) (Macrophage-stimulating protein) [Contains: Hepatocyte growth factor-like protein alpha chain; Hepatocyte growth factor-like protein beta chain]. [Source:Uniprot/SWISSPROT;Acc:P26927]		16.515	-14.43	0.0328265	432	21	1	41 [+]
MTAP	S-methyl-5-thioadenosine phosphorylase (EC 2.4.2.28) (5'-methylthioadenosine phosphorylase) (MTA phosphorylase) (MTAPase). [Source:Uniprot/SWISSPROT;Acc:Q13126]		17.04	-15.73	0.0200583	388	19	1	40 [+]
MTMR1	Myotubularin-related protein 1 (EC 3.1.3.-). [Source:Uniprot/SWISSPROT;Acc:Q13613]		16.178	-12.55	0.00691648	600	21	2	39 [+]

MTX2	Metaxin-2. [Source:Uniprot/SWISSPROT;Acc:O75431]		16.632	-10.03	0.0036032	359	21	8	75 [+]
MUC13	Mucin-13 precursor (Down-regulated in colon cancer 1). [Source:Uniprot/SWISSPROT;Acc:Q9H3R2]		16.147	-15.43	0.0101934	1301	12	1	14 [+]
MYBL1	Myb-related protein A (A-Myb). [Source:Uniprot/SWISSPROT;Acc:P10243]		15.598	-20.11	0.00042727	1000	15	4	21 [+]
MYBPC1	Myosin-binding protein C, slow-type (Slow MyBP-C) (C-protein, skeletal muscle slow isoform). [Source:Uniprot/SWISSPROT;Acc:Q00872]		16.444	-8.5	0.0350619	328	15	1	42 [+]
MYBPC3	Myosin-binding protein C, cardiac-type (Cardiac MyBP-C) (C-protein, cardiac muscle isoform). [Source:Uniprot/SWISSPROT;Acc:Q14896]		17.162	-18.74	0.0178698	343	18	5	68 [+]
MYCBP2	Probable E3 ubiquitin-protein ligase MYCBP2 (EC 6.3.2.-) (Myc-binding protein 2) (Protein associated with Myc) (Pam/highwire/rpm-1 protein). [Source:Uniprot/SWISSPROT;Acc:O75592]		17.24	-18.75	0.0166139	1000	7	1	8 [+]

MYL6	Myosin light polypeptide 6 (Smooth muscle and nonmuscle myosin light chain alkali 6) (Myosin light chain alkali 3) (Myosin light chain 3) (MLC-3) (LC17). [Source:Uniprot/SWISSPROT;Acc:P60660]	16.744	-23.3	0.0264944	206	10	1	31 [+]
MYL6	Myosin light polypeptide 6 (Smooth muscle and nonmuscle myosin light chain alkali 6) (Myosin light chain alkali 3) (Myosin light chain 3) (MLC-3) (LC17). [Source:Uniprot/SWISSPROT;Acc:P60660]	16.744	-23.3	0.0264944	180	10	2	35 [+]
MYLE_HUMAN	Protein MYLE (Dexamethasone-induced protein). [Source:Uniprot/SWISSPROT;Acc:O95424]	16.112	-16.75	0.00319583	789	13	2	13 [+]
MYO9B	Myosin-IXb (Unconventional myosin-9b). [Source:Uniprot/SWISSPROT;Acc:Q13459]	16.173	-17.65	0.0451577	974	17	5	24 [+]
NANOS3	Nanos homolog 3. [Source:Uniprot/SWISSPROT;Acc:P60323]	16.347	-15.49	0.00344608	1000	16	3	19 [+]
NAT13	Mak3 homolog [Source:RefSeq_peptide;Acc:NP_079422]	16.422	-21.28	0.0358014	1000	11	1	15 [+]
NAT5	<i>N</i> -acetyltransferase 5 (EC 2.3.1.-). [Source:Uniprot/SWISSPROT;Acc:P61599]	16.51	-16.94	0.00301124	719	21	7	39 [+]

NAT5	<i>N</i> -acetyltransferase 5 (EC 2.3.1.-). [Source:Uniprot/SWISSPROT;Acc:P61599]		16.383	-16.94	0.0364414	774	14	1	17 [+]
NDUFAB1	Acyl carrier protein, mitochondrial precursor (ACP) (NADH-ubiquinone oxidoreductase 9.6 kDa subunit) (CI-SDAP). [Source:Uniprot/SWISSPROT;Acc:O14561]		16.517	-24.97	0.0037846	166	9	3	28 [+]
NDUFB8	NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 8, mitochondrial precursor (EC 1.6.5.3) (EC 1.6.99.3) (NADH-ubiquinone oxidoreductase ASHI subunit) (Complex I-ASHI) (CI-ASHI). [Source:Uniprot/SWISSPROT;Acc:O95169]		16.404	-13.86	0.00137875	152	9	1	31 [+]
NDUFS3	Protein-tyrosine phosphatase mitochondrial 1, mitochondrial precursor (EC 3.1.3.48) (EC 3.1.3.16) (PTEN-like phosphatase) (Phosphoinositide lipid phosphatase). [Source:Uniprot/SWISSPROT;Acc:Q8WUK0]		16.178	-14.65	0.0449427	81	4	5	19 [+]
NEDD8	NEDD8 precursor (Ubiquitin-like protein Nedd8) (Neddylin). [Source:Uniprot/SWISSPROT;Acc:Q15843]		15.386	-16.92	0.00859695	261	14	6	52 [+]

NEFH	Neurofilament heavy polypeptide (NF-H) (Neurofilament triplet H protein) (200 kDa neurofilament protein). [Source:Uniprot/SWISSPROT;Acc:P12036]	16.099	-14.16	0.00124401	583	19	7	40 [+]
NEU3	Sialidase-3 (EC 3.2.1.18) (Membrane sialidase) (Ganglioside sialidase) (N-acetyl-alpha-neuraminidase 3). [Source:Uniprot/SWISSPROT;Acc:Q9UQ49]	15.653	-12.04	0.00034828	592	22	3	36 [+]
NEXN	Nexilin (Sarcoma antigen NY-SAR-22). [Source:Uniprot/SPTREMBL;Acc:Q0ZGT2]	16.505	-23.28	0.0325947	978	9	1	10 [+]
NFATC3	Nuclear factor of activated T-cells, cytoplasmic 3 (NF-ATc3) (NFATc3) (T cell transcription factor NFAT4) (NF-AT4) (NFAT α). [Source:Uniprot/SWISSPROT;Acc:Q12968]	16.105	-13.38	0.00184566	426	22	8	81 [+]
NFYC	Nuclear transcription factor Y subunit gamma (Nuclear transcription factor Y subunit C) (NF-YC) (CAAT-box DNA-binding protein subunit C) (Transactivator HSM-1/2). [Source:Uniprot/SWISSPROT;Acc:Q13952]	16.63	-14.28	0.0290295	278	11	1	24 [+]

NFYC	Nuclear transcription factor Y subunit gamma (Nuclear transcription factor Y subunit C) (NF-YC) (CAAT-box DNA-binding protein subunit C) (Transactivator HSM-1/2). [Source:Uniprot/SWISSPROT;Acc:Q13952]		16.63	-14.28	0.0290295	274	11	1	24 [+]
NGEF	Ephexin-1 (Eph-interacting exchange protein) (Neuronal guanine nucleotide exchange factor). [Source:Uniprot/SWISSPROT;Acc:Q8N5V2]		16.163	-19.76	0.00030643	778	25	5	35 [+]
NIPBL	Nipped-B-like protein (Delangin) (SCC2 homolog). [Source:Uniprot/SWISSPROT;Acc:Q6KC79]		16.404	-9.92	0.0357474	296	11	1	30 [+]
NLRP8	NACHT, LRR and PYD-containing protein 8 (Nucleotide-binding oligomerization domain protein 16) (PYRIN and NACHT-containing protein 4). [Source:Uniprot/SWISSPROT;Acc:Q86W28]		17.88	-17.97	0.00906655	716	22	2	41 [+]
NM_001031.4	Ribosomal protein S28 (RPS28), mRNA [Source:RefSeq_dna;Acc:NM_001031]		17.309	-20.94	0.0155574	140	7	1	19 [+]
NM_182631	CDNA FLJ43952 fis, clone TESTI4015471. [Source:Uniprot/SPTREMBL;Acc:Q6ZU74]		16.362	-15.47	0.0378471	601	18	1	22 [+]

NM_207362.2	similar to 2010300C02Rik protein (MGC42367), mRNA [Source:RefSeq_dna;Acc:NM_207362]		16.543	-21.06	0.0319568	1000	13	2	18 [+]
NMB	Neuromedin-B precursor [Contains: Neuromedin-B-32; Neuromedin-B]. [Source:Uniprot/SWISSPROT;Acc:P08949]		16.857	-14.6	0.00068355	241	14	7	65 [+]
NMT2	Glycylpeptide N-tetradecanoyltransferase 2 (EC 2.3.1.97) (Peptide N-myristoyltransferase 2) (Myristoyl-CoA:protein N-myristoyltransferase 2) (NMT 2) (Type II N-myristoyltransferase). [Source:Uniprot/SWISSPROT;Acc:O60551]		17.12	-24.52	0.0186034	1291	7	1	5 [+]
NOS1AP	Carboxyl-terminal PDZ ligand of neuronal nitric oxide synthase protein (C-terminal PDZ ligand of neuronal nitric oxide synthase protein) (Nitric oxide synthase 1 adaptor protein). [Source:Uniprot/SWISSPROT;Acc:O75052]		16.073	-19.52	3.60E-05	987	22	4	30 [+]
NOVA2	RNA-binding protein Nova-2 (Neuro-oncological ventral antigen 2) (Astrocytic NOVA1-like RNA-binding protein). [Source:Uniprot/SWISSPROT;Acc:Q9UNW9]		16.404	-18.88	0.00017287	330	17	7	85 [+]

NP_001001710.1	Similar to 4931415M17 protein (LOC401565), mRNA [Source:RefSeq_dna;Acc:NM_001001710]		15.612	-17.24	0.0210775	116	7	8	38 [+]
NP_001004331.1	Similar to CG32662-PA (MGC88374), mRNA [Source:RefSeq_dna;Acc:NM_001004331]		16.235	-19.26	0.00678519	372	21	3	46 [+]
NP_001005514.1	Olfactory receptor, family 5, subfamily H, member 14 [Source:RefSeq_peptide;Acc:NP_001005514]		16.13	-15.05	0.0458863	1000	10	1	13 [+]
NP_001007547.1	CDNA FLJ46838 fis, clone UTERU2035926. [Source:Uniprot/SPTREMBL;Acc:Q6ZQN3]		16.273	-21.87	0.041139	1693	3	1	3 [+]
NP_001008784.1	CD200 cell surface glycoprotein receptor isoform 2 [Source:RefSeq_peptide;Acc:NP_001008784]		15.548	-15.81	0.0398218	1000	18	2	26 [+]
NP_001013009.2	Similar to TSG118.1 (LOC400506), mRNA [Source:RefSeq_dna;Acc:NM_001012991]		15.446	-16.63	0.00321627	1000	18	5	29 [+]
NP_001013662.1	Similar to Complement C3 precursor (LOC388503), mRNA [Source:RefSeq_dna;Acc:NM_001013640]		15.812	-19.5	0.00856037	1389	9	2	11 [+]
NP_001017361.1	ES cell associated transcript 1 (ECAT1), mRNA [Source:RefSeq_dna;Acc:NM_001017361]		15.612	-17.78	0.00567638	311	15	4	55 [+]

NP_001025037.1	Similar to T-complex protein 1 [Source:RefSeq_peptide;Acc:NP_001025037]		17.535	-15.68	0.0124858	100	4	1	8 [+]
NP_001026904.1	CDNA FLJ39703 fis, clone SMINT2012195. [Source:Uniprot/SPTREMBL;Acc:Q8N8B8]		16.23	-18.27	0.0019143	422	17	4	50 [+]
NP_001074015.1	Similar to RIKEN cDNA 1810021J13 (RGD1311364), mRNA [Source:RefSeq_dna;Acc:NM_001008325]similar to RIKEN cDNA 1810021J13 (RGD1311364), mRNA [Source:RefSeq_dna;Acc:NM_001008325] BY ORTHOLOGY TO:ENSRNOT00000012060		16.339	-18.16	0.0379358	539	21	4	34 [+]
NP_056993.2	Neuroblastoma-amplified protein [Source:RefSeq_peptide;Acc:NP_056993]		15.386	-16.82	0.005865	140	8	4	26 [+]
NP_060401.2	OTTHUMP00000028646. [Source:Uniprot/SPTREMBL;Acc:Q5R3I4]		15.554	-17.68	0.00708291	1122	18	2	22 [+]
NP_065930.2	CDNA FLJ31980 fis, clone NT2RP7008487, weakly similar to TRICHOHYALIN. [Source:Uniprot/SPTREMBL;Acc:Q96MS1]		16.085	-17.67	0.00130011	336	18	3	48 [+]
NP_443196.1	Mast cell immunoreceptor signal transducer [Source:RefSeq_peptide;Acc:NP_443196]		16.047	-17.81	0.00530773	765	22	5	31 [+]

NP_542387.1	MGC13017 protein. [Source:Uniprot/SPTREMBL;Acc:Q8WVE3]		15.656	-12.49	0.00550403	801	22	3	35 [+]
NP_742001.1	Type II transmembrane protein DCAL1 [Source:RefSeq_peptide;Acc:NP_742001]		15.612	-14.67	0.00450714	128	7	1	19 [+]
NP_775813.1	Lamina ancestor CG10645-PB, isoform B [Source:RefSeq_peptide;Acc:NP_523933]lamina ancestor CG10645-PB, isoform B [Source:RefSeq_peptide;Acc:NP_523933] BY ORTHOLOGY TO:CG10645-RC		15.376	-15.22	0.0080308	770	25	3	42 [+]
NP_981947.1	Similar to CG10671-like [Source:RefSeq_peptide;Acc:NP_981947]		15.993	-16.89	0.0102724	1000	16	3	23 [+]
NP_981952.1	Similar to CG32656-PA (LOC340602), mRNA [Source:RefSeq_dna;Acc:NM_203407]		16.361	-16.55	0.0378815	307	18	3	65 [+]
NP_997199.1	SRSR846 (UNQ846), mRNA [Source:RefSeq_dna;Acc:NM_207316]		16.137	-13.22	0.00372621	936	5	1	7 [+]
NP_997319.1	CDNA FLJ42957 fis, clone BRSTN2010500 (FLJ42957 protein). [Source:Uniprot/SPTREMBL;Acc:Q6ZV60]		18.009	-16.3	0.00802771	463	15	1	33 [+]

NPC1	Niemann-Pick C1 protein precursor. [Source:Uniprot/SWISSPROT;Acc:O15118]		16.825	-19.27	0.0245432	701	22	8	44 [+]
NPPA	Atrial natriuretic factor precursor (ANF) (Atrial natriuretic peptide) (ANP) (Prepronatriodilatin) (CDD-ANF) [Contains: Cardiodilatin-related peptide (CDP)]. [Source:Uniprot/SWISSPROT;Acc:P01160]		15.725	-16.14	0.0117095	300	18	6	68 [+]
NPTN	Neuroplastin precursor (Stromal cell-derived receptor 1) (SDR-1). [Source:Uniprot/SWISSPROT;Acc:Q9Y639]		15.452	-15.67	2.14E-05	1039	26	6	35 [+]
NR_002593.1	Solute carrier family 7 (cationic amino acid transporter, y ⁺ system), member 5 pseudogene 1 (SLC7A5P1) on chromosome 16 [Source:RefSeq_dna;Acc:NR_002593]		15.618	-19.74	0.00269753	558	12	1	18 [+]
NR6A1	Orphan nuclear receptor NR6A1 (Germ cell nuclear factor) (GCNF) (Retinoid receptor-related testis-specific receptor) (RTR). [Source:Uniprot/SWISSPROT;Acc:Q15406]		20.024	-24.56	1.99E-13	289	13	12	66 [+]
NRF1	Nuclear respiratory factor 1 (NRF-1) (Alpha palindromic-binding protein) (Alpha-pal). [Source:Uniprot/SWISSPROT;Acc:Q16656]		16.15	-19.05	0.00263339	833	21	4	32 [+]

NRP2	Neuropilin-2 precursor (Vascular endothelial cell growth factor 165 receptor 2). [Source:Uniprot/SWISSPROT;Acc:O60462]		16.057	-19.6	0.0490542	783	10	1	13 [+]
NSF	Vesicle-fusing ATPase (EC 3.6.4.6) (Vesicular-fusion protein NSF) (N-ethylmaleimide sensitive fusion protein) (NEM-sensitive fusion protein). [Source:Uniprot/SWISSPROT;Acc:P46459]		16.705	-22.43	0.0274817	1637	13	5	15 [+]
NSG1_HUMAN	Neuron-specific protein family member 1 (Brain neuron cytoplasmic protein 1). [Source:Uniprot/SWISSPROT;Acc:P42857]		15.483	-9.27	0.00794021	1623	15	6	14 [+]
NSMAF	Protein FAN (Factor associated with N-SMase activation) (Factor associated with neutral sphingomyelinase activation). [Source:Uniprot/SWISSPROT;Acc:Q92636]		16.17	-14.57	0.00024205	595	23	11	47 [+]
NT5C1B	Retinol dehydrogenase 14 (EC 1.1.1.-) (Alcohol dehydrogenase PAN2). [Source:Uniprot/SWISSPROT;Acc:Q9HBH5]		15.678	-18.62	0.00173319	925	19	6	25 [+]
NUPR1_HUMAN	Nuclear protein 1 (Protein p8) (Candidate of metastasis 1). [Source:Uniprot/SWISSPROT;Acc:O60356]		15.942	-20.57	0.00813007	342	17	6	52 [+]

ODF3L1	Outer dense fiber of sperm tails 3-like 1 [Source:RefSeq_peptide;Acc:NP_787077]		16.517	-17.42	0.0327503	146	9	8	25 [+]
OGFRL1	Opioid growth factor receptor-like 1 [Source:RefSeq_peptide;Acc:NP_078852]		15.838	-8.93	0.00155321	219	9	5	25 [+]
OR13G1	Olfactory receptor 13G1. [Source:Uniprot/SWISSPROT;Acc:Q8NGZ3]		15.632	-16.7	0.00181184	1000	17	2	27 [+]
OR1L8	Olfactory receptor 1L8 (Olfactory receptor OR9-24). [Source:Uniprot/SWISSPROT;Acc:Q8NGR8]		16.164	-13.63	0.0455057	1000	11	3	14 [+]
OR2T2	Olfactory receptor 2T2 (Olfactory receptor OR1-43). [Source:Uniprot/SWISSPROT;Acc:Q6IF00]		16.13	-12.98	0.0469724	1000	22	1	13 [+]
OR2T35	Olfactory receptor 2T35 (Olfactory receptor OR1-66). [Source:Uniprot/SWISSPROT;Acc:Q8NGX2]		16.13	-12.98	0.0469724	1000	24	1	14 [+]
OR51D1	Olfactory receptor 51D1 (Olfactory receptor OR11-14). [Source:Uniprot/SWISSPROT;Acc:Q8NGF3]		15.334	-17.1	0.00407969	1000	19	2	20 [+]
OR51I1	Olfactory receptor 51I1 (Olfactory receptor OR11-39) (Odorant receptor HOR5'beta11). [Source:Uniprot/SWISSPROT;Acc:Q9H343]		16.13	-18.14	0.0458863	1000	9	1	10 [+]

OR52L1	Olfactory receptor 52L1. [Source:Uniprot/SWISSPROT;Acc:Q8NGH7]		16.529	-18.33	0.0324051	1000	13	2	17 [+]
OR5M9	Olfactory receptor 5M9 (Olfactory receptor OR11-190). [Source:Uniprot/SWISSPROT;Acc:Q8NGP3]		16.23	-21.27	0.0019056	1000	13	2	14 [+]
OR5P2	Olfactory receptor 5P2 (Olfactory receptor-like protein JCG3). [Source:Uniprot/SWISSPROT;Acc:Q8WZ92]		15.931	-24.74	0.00363839	1000	11	1	14 [+]
OSBPL1A	Oxysterol-binding protein-related protein 1 (OSBP-related protein 1) (ORP-1). [Source:Uniprot/SWISSPROT;Acc:Q9BXW6]		16.172	-17.11	0.00074431	1130	11	4	13 [+]
OTOP1	Otopetrin 1 [Source:RefSeq_peptide;Acc:NP_819056]		15.732	-14.68	0.00174642	1000	17	3	22 [+]
OTUD1	OTU domain-containing protein 1. [Source:Uniprot/SWISSPROT;Acc:Q5VV17]		15.942	-12.36	0.0196165	1271	16	6	19 [+]
P4HA2	Prolyl 4-hydroxylase subunit alpha-2 precursor (EC 1.14.11.2) (4-PH alpha-2) (Procollagen-proline,2-oxoglutarate-4-dioxygenase alpha-2 subunit). [Source:Uniprot/SWISSPROT;Acc:O15460]		16.339	-12.39	0.00133193	397	19	1	43 [+]

P4HA2	Prolyl 4-hydroxylase subunit alpha-2 precursor (EC 1.14.11.2) (4-PH alpha-2) (Procollagen-proline,2-oxoglutarate-4-dioxygenase alpha-2 subunit). [Source:Uniprot/SWISSPROT;Acc:O15460]		16.325	-12.39	0.0013643	400	19	1	43 [+]
PADI6	Protein-arginine deiminase type-6 (EC 3.5.3.15) (Protein-arginine deiminase type VI) (Peptidylarginine deiminase VI). [Source:Uniprot/SWISSPROT;Acc:Q6TGC4]		15.386	-15.57	0.00789276	261	14	3	50 [+]
PALB2	Partner and localizer of BRCA2. [Source:Uniprot/SWISSPROT;Acc:Q86YC2]		16.63	-17.08	0.00020074	297	18	7	53 [+]
PAM	Peptidyl-glycine alpha-amidating monooxygenase precursor (PAM) [Includes: Peptidylglycine alpha-hydroxylating monooxygenase (EC 1.14.17.3) (PHM); Peptidyl-alpha-hydroxyglycine alpha-amidating lyase (EC 4.3.2.5) (Peptidylamidoglycolate lyase) (PAL)]. [Source:Uniprot/SWISSPROT;Acc:P19021]		15.404	-12.4	0.00159986	647	21	8	46 [+]
PANK2	Pantothenate kinase 2, mitochondrial precursor (EC 2.7.1.33) (Pantothenic acid kinase 2) (hPANK2). [Source:Uniprot/SWISSPROT;Acc:Q9BZ23]		16.164	-12.93	0.00452012	561	26	6	50 [+]

PANK2	Pantothenate kinase 2, mitochondrial precursor (EC 2.7.1.33) (Pantothenic acid kinase 2) (hPANK2). [Source:Uniprot/SWISSPROT;Acc:Q9BZ23]		16.168	-12.93	0.0453748	560	20	1	31 [+]
PAPSS1	Bifunctional 3'-phosphoadenosine 5'-phosphosulfate synthetase 1 (PAPS synthetase 1) (PAPSS 1) (Sulfurylase kinase 1) (SK1) (SK 1) [Includes: Sulfate adenylyltransferase (EC 2.7.7.4) (Sulfate adenylate transferase) (SAT) (ATP-sulfurylase); Adenylyl-sulfate [Source:Uniprot/SWISSPROT;Acc:O43252]		15.431	-15.88	0.00861987	582	22	6	41 [+]
PAQR3	Progestin and adipoQ receptor family member 3 (Progestin and adipoQ receptor family member III). [Source:Uniprot/SWISSPROT;Acc:Q6TCH7]		15.778	-13.27	0.00013661	585	17	2	30 [+]
PARK2	Parkin (EC 6.3.2.-) (Ubiquitin E3 ligase PRKN) (Parkinson juvenile disease protein 2) (Parkinson disease protein 2). [Source:Uniprot/SWISSPROT;Acc:O60260]		16.286	-16.94	0.0398273	1000	9	1	9 [+]

PARN	Poly(A)-specific ribonuclease PARN (EC 3.1.13.4) (Polyadenylate-specific ribonuclease) (Deadenylating nuclease) (Deadenylation nuclease). [Source:Uniprot/SWISSPROT;Acc:O95453]		15.838	-11.31	2.84E-05	1000	20	3	26 [+]
PAWR	PRKC apoptosis WT1 regulator protein (Prostate apoptosis response 4 protein) (Par-4). [Source:Uniprot/SWISSPROT;Acc:Q96IZ0]		16.151	-15.47	2.80E-05	640	19	7	28 [+]
PCDHA1	Protocadherin alpha 1 precursor (PCDH-alpha1). [Source:Uniprot/SWISSPROT;Acc:Q9Y5I3]		18.214	-10.28	0.00660821	147	7	1	17 [+]
PCDHB18	Protocadherin beta 18 pseudogene (PCDHB18) on chromosome 5 [Source:RefSeq_dna;Acc:NR_001281]		16.462	-15.72	0.0345008	611	13	1	22 [+]
PCDHB3	Protocadherin beta 3 precursor (PCDH-beta3). [Source:Uniprot/SWISSPROT;Acc:Q9Y5E6]		16.148	-13.86	0.046203	782	14	3	16 [+]
PCDHB6	Protocadherin beta 6 precursor (PCDH-beta6). [Source:Uniprot/SWISSPROT;Acc:Q9Y5E3]		15.768	-10.45	0.00802098	645	17	4	31 [+]

PCGF2	Polycomb group RING finger protein 2 (DNA-binding protein Mel-18) (RING finger protein 110) (Zinc finger protein 144). [Source:Uniprot/SWISSPROT;Acc:P35227]		17.102	-19.77	0.00100426	1000	17	4	23 [+]
PCK2	Phosphoenolpyruvate carboxykinase [GTP], mitochondrial precursor (EC 4.1.1.32) (Phosphoenolpyruvate carboxylase) (PEPCK-M). [Source:Uniprot/SWISSPROT;Acc:Q16822]		15.386	-8.29	0.00789276	166	10	5	28 [+]
PCMT1	Protein-L-isoaspartate(D-aspartate) O-methyltransferase (EC 2.1.1.77) (Protein-beta-aspartate methyltransferase) (PIMT) (Protein L-isoaspartyl/D-aspartyl methyltransferase) (L-isoaspartyl protein carboxyl methyltransferase). [Source:Uniprot/SWISSPROT;Acc:P22061]		16.39	-15.18	0.0362228	436	19	1	44 [+]
PCYOX1	Preylcysteine oxidase precursor (EC 1.8.3.5) (PCL1). [Source:Uniprot/SWISSPROT;Acc:Q9UHG3]		15.399	-20.25	0.00110732	2390	3	3	3 [+]
PDCD10	Programmed cell death protein 10 (TF-1 cell apoptosis-related protein 15) (Cerebral cavernous malformations 3 protein). [Source:Uniprot/SWISSPROT;Acc:Q9BUL8]		16.33	-16.98	0.0382639	399	18	7	39 [+]

PDE3B	cGMP-inhibited 3',5'-cyclic phosphodiesterase B (EC 3.1.4.17) (Cyclic GMP-inhibited phosphodiesterase B) (CGI-PDE B) (CGIPDE1) (CGIP1). [Source:Uniprot/SWISSPROT;Acc:Q13370]		16.321	-11.02	0.0385606	1144	13	11	22 [+]
PDHB	Pyruvate dehydrogenase E1 component subunit beta, mitochondrial precursor (EC 1.2.4.1) (PDHE1-B). [Source:Uniprot/SWISSPROT;Acc:P11177]		15.984	-16.67	0.00166272	403	20	6	55 [+]
PDIA6	Protein disulfide-isomerase A6 precursor (EC 5.3.4.1) (Protein disulfide isomerase P5) (Thioredoxin domain-containing protein 7). [Source:Uniprot/SWISSPROT;Acc:Q15084]		18.903	-25.71	2.34E-05	397	21	6	49 [+]
PDIA6	Protein disulfide-isomerase A6 precursor (EC 5.3.4.1) (Protein disulfide isomerase P5) (Thioredoxin domain-containing protein 7). [Source:Uniprot/SWISSPROT;Acc:Q15084]		17.393	-25.71	0.0143705	865	12	1	15 [+]

PDIA6	Protein disulfide-isomerase A6 precursor (EC 5.3.4.1) (Protein disulfide isomerase P5) (Thioredoxin domain-containing protein 7). [Source:Uniprot/SWISSPROT;Acc:Q15084]		17.389	-25.71	0.0144263	867	12	1	15 [+]
PDZD11	PDZ domain-containing protein 11. [Source:Uniprot/SWISSPROT;Acc:Q5EBL8]		15.775	-15.88	0.0438714	973	22	3	26 [+]
PDZK1IP1	PDZK1-interacting protein 1 (17 kDa membrane-associated protein) (Protein DD96). [Source:Uniprot/SWISSPROT;Acc:Q13113]		16.078	-19.59	0.00492918	382	19	6	51 [+]
PEBP1	Phosphatidylethanolamine-binding protein 1 (PEBP-1) (Prostatic-binding protein) (HCNPpp) (Neuropolypeptide h3) (Raf kinase inhibitor protein) (RKIP) [Contains: Hippocampal cholinergic neurostimulating peptide (HCNP)]. [Source:Uniprot/SWISSPROT;Acc:P30086]		16.545	-16.46	0.00731987	779	13	4	25 [+]
PEF1	Peflin (PEF protein with a long N-terminal hydrophobic domain) (Penta-EF hand domain-containing protein 1). [Source:Uniprot/SWISSPROT;Acc:Q9UBV8]		16.348	-19.76	8.36E-05	751	22	3	29 [+]
PEG3	Zinc finger imprinted 2. [Source:Uniprot/SWISSPROT;Acc:Q9NZV7]		16.291	-17.06	0.0404523	126	7	1	16 [+]

PEP1	Pescadillo homolog 1. [Source:Uniprot/SWISSPROT;Acc:O00541]		15.476	-16.52	0.00659698	420	22	5	61 [+]
PEX11B	Peroxisomal membrane protein 11B (Peroxin-11B) (Peroxisomal biogenesis factor 11B) (PEX11beta) (Pex11pbeta). [Source:Uniprot/SWISSPROT;Acc:O96011]		15.66	-23.48	0.0425894	811	24	5	33 [+]
PEX13	Peroxisomal membrane protein PEX13 (Peroxin-13). [Source:Uniprot/SWISSPROT;Acc:Q92968]		16.253	-17.09	0.00064004	486	18	7	49 [+]
PEX7	Peroxisomal targeting signal 2 receptor (PTS2 receptor) (Peroxin-7). [Source:Uniprot/SWISSPROT;Acc:O00628]		16.065	-10.2	0.00450714	224	12	1	38 [+]
PF4V1	Platelet factor 4 variant precursor (PF4var1) (PF4alt) (CXCL4L1) [Contains: Platelet factor 4 variant(4-74); Platelet factor 4 variant(5-74); Platelet factor 4 variant(6-74)]. [Source:Uniprot/SWISSPROT;Acc:P10720]		16.838	-14.32	0.0224675	362	19	2	55 [+]
PHF1	PHD finger protein 1 (Protein PHF1). [Source:Uniprot/SWISSPROT;Acc:O43189]		15.724	-25.09	0.012767	341	20	7	67 [+]

PHLDA1	Pleckstrin homology-like domain family A member 1 (T-cell death-associated gene 51 protein) (Apoptosis-associated nuclear protein) (Proline- and histidine-rich protein) (Proline- and glutamine-rich protein) (PQ-rich protein). [Source:Uniprot/SWISSPROT;Acc:Q8WV24]		15.857	-13.82	0.00607484	1000	21	4	34 [+]
PHOX2B	Paired mesoderm homeobox protein 2B (Paired-like homeobox 2B) (PHOX2B homeodomain protein) (Neuroblastoma Phox) (NBPhox). [Source:Uniprot/SWISSPROT;Acc:Q99453]		15.844	-20.6	0.0433464	1725	17	4	19 [+]
PIAS3	E3 SUMO-protein ligase PIAS3 (Protein inhibitor of activated STAT protein 3). [Source:Uniprot/SWISSPROT;Acc:Q9Y6X2]		15.556	-11.44	0.00114186	924	10	4	12 [+]
PIK3C3	Phosphatidylinositol 3-kinase catalytic subunit type 3 (EC 2.7.1.137) (PtdIns-3-kinase type 3) (PI3-kinase type 3) (PI3K type 3) (Phosphoinositide-3-kinase class 3) (Phosphatidylinositol 3-kinase p100 subunit). [Source:Uniprot/SWISSPROT;Acc:Q8NEB9]		15.602	-10.31	0.00281512	343	15	3	42 [+]

PISD	Phosphatidylserine decarboxylase proenzyme (EC 4.1.1.65) [Contains: Phosphatidylserine decarboxylase alpha chain; Phosphatidylserine decarboxylase beta chain]. [Source:Uniprot/SWISSPROT;Acc:Q9UG56]		15.386	-19.75	0.00082611	218	12	4	45 [+]
PLA2G4A	Cytosolic phospholipase A2 (cPLA2) (Phospholipase A2 group IVA) [Includes: Phospholipase A2 (EC 3.1.1.4) (Phosphatidylcholine 2-acylhydrolase); Lysophospholipase (EC 3.1.1.5)]. [Source:Uniprot/SWISSPROT;Acc:P47712]		16.753	-17.81	0.00043274	473	16	5	66 [+]
PLA2G4C	Cytosolic phospholipase A2 gamma precursor (EC 3.1.1.4) (cPLA2-gamma) (Phospholipase A2 group IVC). [Source:Uniprot/SWISSPROT;Acc:Q9UP65]		15.307	-13.97	0.00951703	496	22	4	52 [+]
PLAC1L	Placenta-specific 1-like protein precursor. [Source:Uniprot/SWISSPROT;Acc:Q86WS3]		15.683	-15.25	0.00234112	968	13	2	11 [+]
PLAGL1	Zinc finger protein PLAGL1 (Pleiomorphic adenoma-like protein 1). [Source:Uniprot/SWISSPROT;Acc:Q9UM63]		15.866	-23.55	0.00010064	1124	16	5	25 [+]

PLAU	Urokinase-type plasminogen activator precursor (EC 3.4.21.73) (uPA) (U-plasminogen activator) [Contains: Urokinase-type plasminogen activator long chain A; Urokinase-type plasminogen activator short chain A; Urokinase-type plasminogen activator chain B]. [Source:Uniprot/SWISSPROT;Acc:P00749]		15.959	-13.63	0.00455845	568	25	1	45 [+]
PLCL2	Phospholipase C-like 2 [Source:RefSeq_peptide;Acc:NP_055999]		16.744	-9.15	2.82E-06	177	11	8	43 [+]
PLXDC2	Plexin domain-containing protein 2 precursor (Tumor endothelial marker 7-related protein). [Source:Uniprot/SWISSPROT;Acc:Q6UX71]		16.681	-18.65	0.0143001	538	16	9	45 [+]
PNCK	Calcium/calmodulin-dependent protein kinase type 1B (EC 2.7.11.17) (CaM kinase IB) (CaM kinase I beta) (CaMKI-beta) (CaM-KI beta) (Pregnancy up-regulated non-ubiquitously expressed CaM kinase). [Source:Uniprot/SWISSPROT;Acc:Q6P2M8]		15.952	-12.29	0.00886575	370	16	6	74 [+]
PNKD	myofibrillogenesis regulator 1 isoform 1 [Source:RefSeq_peptide;Acc:NP_056303]		15.725	-12.41	0.00305312	183	9	1	28 [+]

POLQ	DNA polymerase theta (EC 2.7.7.7) (DNA polymerase eta). [Source:Uniprot/SWISSPROT;Acc:O75417]		15.342	-12.06	7.25E-05	873	23	4	41 [+]
POM121L2	POM121 membrane glycoprotein-like 2. [Source:Uniprot/SPTREMBL;Acc:Q96KW2]		16.329	-15.82	0.0390285	1000	17	2	21 [+]
POMC	Corticotropin-lipotropin precursor (Pro-opiomelanocortin) (POMC) [Contains: NPP; Melanotropin gamma (Gamma-MSH); Potential peptide; Corticotropin (Adrenocorticotrophic hormone) (ACTH); Melanotropin alpha (Alpha-MSH); Corticotropin-like intermediary peptide [Source:Uniprot/SWISSPROT;Acc:P01189]		18.78	-15.28	4.73E-05	228	13	6	49 [+]
POP7	Ribonuclease P protein subunit p20 (EC 3.1.26.5) (RNaseP protein p20) (hPOP7). [Source:Uniprot/SWISSPROT;Acc:O75817]		15.499	-10.87	0.00075442	241	14	4	51 [+]
POTE8_HUMAN	Prostate, ovary, testis-expressed protein on chromosome 8. [Source:Uniprot/SWISSPROT;Acc:Q6S8J7]		16.536	-16.16	0.0316779	436	14	1	25 [+]

PPCS	Phosphopantothenate--cysteine ligase (EC 6.3.2.5) (Phosphopantothenoylcysteine synthetase) (PPC synthetase). [Source:Uniprot/SWISSPROT;Acc:Q9HAB8]		15.672	-15.48	8.61E-05	523	21	4	44 [+]
PPIL5	Peptidylprolyl isomerase-like 5 (LRR-repeat protein 1) (LRR-1) (4-1BB-mediated-signaling molecule) (4-1BB1rr). [Source:Uniprot/SWISSPROT;Acc:Q96L50]		15.386	-17.14	0.00867484	175	11	3	37 [+]
PPP2R3B	Serine/threonine-protein phosphatase 2A 48 kDa regulatory subunit B (PP2A, subunit B, PR48 isoform). [Source:Uniprot/SWISSPROT;Acc:Q9Y5P8]		16.529	-21.1	0.00611673	1000	22	2	26 [+]
PPP2R5C	Serine/threonine-protein phosphatase 2A 56 kDa regulatory subunit gamma isoform (PP2A, B subunit, B' gamma isoform) (PP2A, B subunit, B56 gamma isoform) (PP2A, B subunit, PR61 gamma isoform) (PP2A, B subunit, R5 gamma isoform) (Renal carcinoma antigen NY- [Source:Uniprot/SWISSPROT;Acc:Q13362]		17.535	-18.99	0.0125644	238	8	1	17 [+]
PQLC1	PQ-loop repeat-containing protein 1. [Source:Uniprot/SWISSPROT;Acc:Q8N2U9]		15.721	-14.37	0.00078857	1488	13	5	16 [+]

PRAMEF12	PRAME family member DJ1198H6.2. [Source:Uniprot/SWISSPROT;Acc:O 95522]		15.459	-11.36	0.0179358	307	17	2	41 [+]
PRAMEF5	PRAME family member 5. [Source:Uniprot/SWISSPROT;Acc:Q 5TYX0]		16.263	-9.92	0.0415388	324	13	1	32 [+]
PRAMEF6	PRAME family member 6. [Source:Uniprot/SWISSPROT;Acc:Q 5VXH4]		16.263	-9.92	0.0415388	324	13	1	34 [+]
PRDX3	Thioredoxin-dependent peroxide reductase, mitochondrial precursor (EC 1.11.1.15) (Peroxiredoxin-3) (PRX III) (Antioxidant protein 1) (AOP-1) (Protein MER5 homolog) (HBC189). [Source:Uniprot/SWISSPROT;Acc:P 30048]		15.831	-16.11	2.31E-06	777	20	7	24 [+]
PRICKLE1	Prickle-like protein 1 (REST/NRSF- interacting LIM domain protein 1). [Source:Uniprot/SWISSPROT;Acc:Q 96MT3]		17.301	-22.31	0.0156788	537	20	6	53 [+]
PRIM2A	DNA primase large subunit (EC 2.7.7.-) (DNA primase 58 kDa subunit) (p58). [Source:Uniprot/SWISSPROT;Acc:P 49643]		16.63	-15.46	0.0290295	300	14	1	45 [+]
PRKACG	cAMP-dependent protein kinase, gamma-catalytic subunit (EC 2.7.11.11) (PKA C-gamma). [Source:Uniprot/SWISSPROT;Acc:P 22612]		15.525	-16.53	0.0382701	532	20	2	41 [+]

PRKAG2	5'-AMP-activated protein kinase subunit gamma-2 (AMPK gamma-2 chain) (AMPK gamma2) (H91620p). [Source:Uniprot/SWISSPROT;Acc:Q9UGJ0]		16.517	-13.47	0.00020608	260	14	5	59 [+]
PRKCD	Protein kinase C delta type (EC 2.7.11.13) (nPKC-delta). [Source:Uniprot/SWISSPROT;Acc:Q05655]		15.963	-11.09	0.00025837	449	19	8	67 [+]
PROC	Vitamin K-dependent protein C precursor (EC 3.4.21.69) (Autoprothrombin IIA) (Anticoagulant protein C) (Blood coagulation factor XIV) [Contains: Vitamin K-dependent protein C light chain; Vitamin K-dependent protein C heavy chain; Activation peptide]. [Source:Uniprot/SWISSPROT;Acc:P04070]		16.065	-18.46	0.00247516	296	18	5	79 [+]
PROCR	Endothelial protein C receptor precursor (Endothelial cell protein C receptor) (Activated protein C receptor) (APC receptor) (CD201 antigen). [Source:Uniprot/SWISSPROT;Acc:Q9UNN8]		15.566	-15.11	0.0022443	549	19	5	44 [+]

PROKR1	Prokineticin receptor 1 (PK-R1) (G-protein coupled receptor 73) (GPR73a) (G-protein coupled receptor ZAQ). [Source:Uniprot/SWISSPROT;Acc:Q8TCW9]		15.433	-18.19	0.0478123	1000	14	4	19 [+]
PROX1	Homeobox prospero-like protein PROX1 (PROX 1). [Source:Uniprot/SWISSPROT;Acc:Q92786]		17.196	-11.14	0.00305312	105	6	1	19 [+]
PRR6	Proline-rich protein 6 (Nuclear protein p30). [Source:Uniprot/SWISSPROT;Acc:Q7Z7K6]		18.101	-18.7	0.00735609	282	15	7	63 [+]
PRRC1	proline-rich coiled-coil 1 [Source:RefSeq_peptide;Acc:NP_570721]		15.947	-24.2	0.00207417	1000	15	3	15 [+]
PRSS16	Thymus-specific serine protease precursor (EC 3.4.-.-) (Serine protease 16). [Source:Uniprot/SWISSPROT;Acc:Q9NQE7]		15.98	-15.56	0.0270235	1254	16	5	20 [+]
PRSS16	Thymus-specific serine protease precursor (EC 3.4.-.-) (Serine protease 16). [Source:Uniprot/SWISSPROT;Acc:Q9NQE7]		16.13	-15.56	0.0458863	1155	16	1	15 [+]

PSG9	Pregnancy-specific beta-1-glycoprotein 9 precursor (PSBG-9) (Pregnancy-specific glycoprotein 9) (Pregnancy-specific beta-1 glycoprotein B) (PS-beta-B) (PS34) (Pregnancy-specific glycoprotein 7) (PSG7). [Source:Uniprot/SWISSPROT;Acc:Q00887]	18.4	-14.9	0.00554174	323	15	2	36 [+]
PSG9	Pregnancy-specific beta-1-glycoprotein 9 precursor (PSBG-9) (Pregnancy-specific glycoprotein 9) (Pregnancy-specific beta-1 glycoprotein B) (PS-beta-B) (PS34) (Pregnancy-specific glycoprotein 7) (PSG7). [Source:Uniprot/SWISSPROT;Acc:Q00887]	18.387	-14.9	0.00560908	325	15	1	37 [+]
PSMA7	Proteasome subunit alpha type 7 (EC 3.4.25.1) (Proteasome subunit RC6-1) (Proteasome subunit XAPC7). [Source:Uniprot/SWISSPROT;Acc:O14818]	15.725	-13.41	0.00774697	122	6	5	18 [+]

PSMB5	Proteasome subunit beta type 5 precursor (EC 3.4.25.1) (Proteasome epsilon chain) (Macropain epsilon chain) (Multicatalytic endopeptidase complex epsilon chain) (Proteasome subunit X) (Proteasome chain 6) (Proteasome subunit MB1). [Source:Uniprot/SWISSPROT;Acc:P28074]		16.517	-11.01	0.00883098	238	14	5	66 [+]
PSMD1	26S proteasome non-ATPase regulatory subunit 1 (26S proteasome regulatory subunit RPN2) (26S proteasome regulatory subunit S1) (26S proteasome subunit p112). [Source:Uniprot/SWISSPROT;Acc:Q99460]		16.065	-17.01	0.0499184	229	12	5	46 [+]
PSME1	Proteasome activator complex subunit 1 (Proteasome activator 28-alpha subunit) (PA28alpha) (PA28a) (Activator of multicatalytic protease subunit 1) (11S regulator complex subunit alpha) (REG-alpha) (Interferon gamma up-regulated I-5111 protein) (IGUP I-51) [Source:Uniprot/SWISSPROT;Acc:Q06323]		16.13	-19.38	0.0469724	1000	9	1	10 [+]
PSPC1	Paraspeckle protein 1 [Source:RefSeq_peptide;Acc:NP_001035879]		16.432	-17.13	9.84E-05	675	24	8	43 [+]

PSPC1	Paraspeckle protein 1 [Source:RefSeq_peptide;Acc:NP_001035879]+B749		16.164	-15.14	0.0455036	342	19	1	48 [+]
PTCD3	Pentatricopeptide repeat domain 3 [Source:RefSeq_peptide;Acc:NP_060422]		16.344	-17.51	0.0377652	1000	12	1	14 [+]
PTGER3	Prostaglandin E2 receptor, EP3 subtype (Prostanoid EP3 receptor) (PGE receptor, EP3 subtype) (PGE2-R). [Source:Uniprot/SWISSPROT;Acc:P43115]		15.574	-12.58	0.00291983	1000	10	1	10 [+]
PTGER3	Prostaglandin E2 receptor, EP3 subtype (Prostanoid EP3 receptor) (PGE receptor, EP3 subtype) (PGE2-R). [Source:Uniprot/SWISSPROT;Acc:P43115]		16.351	-14.57	0.0382609	1000	6	1	8 [+]
PTGES	Prostaglandin E synthase (EC 5.3.99.3) (Microsomal glutathione S-transferase 1-like 1) (MGST1-L1) (p53-induced apoptosis protein 12). [Source:Uniprot/SWISSPROT;Acc:O14684]		16.647	-21.6	0.02859	1278	18	3	22 [+]
PTPRK	Receptor-type tyrosine-protein phosphatase kappa precursor (EC 3.1.3.48) (Protein-tyrosine phosphatase kappa) (R-PTP-kappa). [Source:Uniprot/SWISSPROT;Acc:Q15262]		18.201	-20.25	0.0033015	383	17	1	50 [+]

PWP2	Periodic tryptophan protein 2 homolog. [Source:Uniprot/SWISSPROT;Acc:Q15269]		18.402	-20.01	0.00553027	409	18	4	52 [+]
PXMP2	Peroxisomal membrane protein 2 (22 kDa peroxisomal membrane protein). [Source:Uniprot/SWISSPROT;Acc:Q9NR77]		17.516	-10.23	0.0128007	303	19	7	68 [+]
Q08AG5_HUMAN	CDNA FLJ14959 fis, clone PLACE4000156, moderately similar to ZINC FINGER PROTEIN 91. [Source:Uniprot/SPTREMBL;Acc:Q96JV1]		16.018	-15.25	0.00015276	693	16	2	18 [+]
Q58FF5_HUMAN	Heat shock protein 90Be. [Source:Uniprot/SPTREMBL;Acc:Q58FF5]		16.645	-17.01	0.00758838	1000	15	3	20 [+]
Q58FF7_HUMAN	Heat shock protein 90Bc. [Source:Uniprot/SPTREMBL;Acc:Q58FF7]		16.158	-20.87	0.0457844	1000	9	1	11 [+]
Q5BLP7_HUMAN	CH41746 (Fragment). [Source:Uniprot/SPTREMBL;Acc:Q5BLP7]		15.585	-10.33	0.00449708	1000	20	2	27 [+]
Q5JWK4_HUMAN	OTTHUMP00000017299 (Fragment). [Source:Uniprot/SPTREMBL;Acc:Q5JWK4]		15.946	-16.67	0.0127963	1000	17	3	21 [+]
Q5T6E0_HUMAN	Ribosomal protein L15 pseudogene 3. [Source:Uniprot/SPTREMBL;Acc:Q5T6E0]		16.357	-17	0.00682976	1000	18	2	28 [+]

Q5VVH2_HUMAN	Peptidyl-prolyl cis-trans isomerase. [Source:Uniprot/SPTREMBL;Acc:Q5VVH2]		15.745	-16.83	0.00367203	1000	16	1	14 [+]
Q5VVH2_HUMAN	Peptidyl-prolyl cis-trans isomerase. [Source:Uniprot/SPTREMBL;Acc:Q5VVH2]		15.525	-16.83	0.00452705	1141	13	2	10 [+]
Q5W0B8_HUMAN	Novel protein (Fragment). [Source:Uniprot/SPTREMBL;Acc:Q5W0B8]		16.172	-22.71	0.0451816	1000	14	2	19 [+]
Q6ZP28_HUMAN	CDNA FLJ26662 fis, clone MPG02040. [Source:Uniprot/SPTREMBL;Acc:Q6ZP28]		16.23	-21	0.0428208	1000	6	1	10 [+]
Q6ZP58_HUMAN	CDNA FLJ26470 fis, clone KDN04339. [Source:Uniprot/SPTREMBL;Acc:Q6ZP58]		15.769	-17.47	0.00051901	1000	15	3	20 [+]
Q6ZP63_HUMAN	CDNA FLJ26452 fis, clone KDN03243. [Source:Uniprot/SPTREMBL;Acc:Q6ZP63]		16.41	-12.57	0.0362091	1000	18	1	18 [+]
Q6ZUP2_HUMAN	CDNA FLJ43495 fis, clone PEBLM2000338. [Source:Uniprot/SPTREMBL;Acc:Q6ZUP2]		16.879	-13.89	0.0233331	569	14	2	24 [+]
Q6ZV65_HUMAN	CDNA FLJ42946 fis, clone BRSTN2005721. [Source:Uniprot/SPTREMBL;Acc:Q6ZV65]		15.499	-8.22	0.00014615	296	16	4	47 [+]
Q7Z2F6_HUMAN	Zinc finger protein 720. [Source:Uniprot/SPTREMBL;Acc:Q7Z2F6]		15.803	-10.65	0.00265626	439	18	2	41 [+]

Q86U89_HUMAN	PHD finger (PHF20L1 protein). [Source:Uniprot/SPTREMBL;Acc:Q86U89]		16.056	-16.8	0.0184852	905	18	3	28 [+]
Q8I WV4_HUMAN	Nucleoporin. [Source:Uniprot/SPTREMBL;Acc:Q8I WV4]		16.804	-23.63	0.0250234	3045	1	1	1 [+]
Q8NF41_HUMAN	NOT ANNOTATED		17.026	-20.27	0.0203083	1000	17	2	20 [+]
Q8NHB0_HUMAN	Seven transmembrane helix receptor. [Source:Uniprot/SPTREMBL;Acc:Q8NHB0]		15.632	-24.95	0.00308792	1000	15	2	15 [+]
Q8WWB0_HUMAN	STEAP4 protein. [Source:Uniprot/SPTREMBL;Acc:Q8WWB0]		16.816	-14.57	0.0247411	1368	11	1	10 [+]
Q92967_HUMAN	Zinc finger protein zfp6 (Fragment). [Source:Uniprot/SPTREMBL;Acc:Q92967]		15.469	-15.04	0.00012851	1000	16	2	15 [+]
Q96AM0_HUMAN	NLRP1 protein. [Source:Uniprot/SPTREMBL;Acc:Q96AM0]		16.442	-14.05	0.0351504	375	16	1	37 [+]
Q96CK5_HUMAN	Homolog of Homo sapiens "PREDICTED "KIAA0226 gene product [Source:IPI;Acc:IPI00022496]"Homolog of Homo sapiens "PREDICTED "KIAA0226 gene product [Source:IPI;Acc:IPI00022496]" BY ORTHOLOGY TO:SINFRUT00000163195		17.509	-24.51	0.0128867	1000	17	4	20 [+]
Q96HG9_HUMAN	NOT ANNOTATED		16.23	-16.95	0.0428208	1000	11	1	11 [+]

Q9H693_HUMAN	CDNA: FLJ22477 fis, clone HRC10815. [Source:Uniprot/SPTREMBL;Acc:Q9H693]		16.178	-8.73	0.00147165	299	15	6	61 [+]
Q9P162_HUMAN	NOT ANNOTATED		15.533	-13.54	0.00367928	1000	7	1	6 [+]
Q9UK71_HUMAN	Lithium-sensitive myo-inositol monophosphatase A1 (EC 3.1.3.25) (Fragment). [Source:Uniprot/SPTREMBL;Acc:Q9UK71]		16.447	-16.99	0.00425166	1000	9	1	12 [+]
QDPR	Dihydropteridine reductase (EC 1.5.1.34) (HDHPR) (Quinoid dihydropteridine reductase). [Source:Uniprot/SWISSPROT;Acc:P09417]		15.412	-11.24	0.00140717	733	19	5	36 [+]
RAB38	Ras-related protein Rab-38 (Antigen NY-MEL-1). [Source:Uniprot/SWISSPROT;Acc:P57729]		17.16	-17.63	0.00072456	708	22	7	28 [+]
RAB3IP	RAB3A-interacting protein (Rabin-3) (SSX2-interacting protein). [Source:Uniprot/SWISSPROT;Acc:Q96QF0]		16.178	-12.13	0.00861315	277	14	6	50 [+]
RAD51C	DNA repair protein RAD51 homolog 3 (R51H3) (RAD51-like protein 2). [Source:Uniprot/SWISSPROT;Acc:O43502]		15.386	-12.73	0.00094675	107	5	5	19 [+]
RAE1	mRNA-associated protein mrnp 41 (Rae1 protein homolog). [Source:Uniprot/SWISSPROT;Acc:P78406]		16.34	-19.29	5.74E-05	1056	22	8	33 [+]

RALA	Ras-related protein Ral-A precursor. [Source:Uniprot/SWISSPROT;Acc:P11233]		15.391	-14.66	0.00028219	1871	2	4	2 [+]
RANBP3	Ran-binding protein 3 (RanBP3). [Source:Uniprot/SWISSPROT;Acc:Q9H6Z4]		17.535	-15.3	0.00017687	230	13	6	58 [+]
RAPGEF4	Rap guanine nucleotide exchange factor 4 (cAMP-regulated guanine nucleotide exchange factor II) (cAMP-GEFII) (Exchange factor directly activated by cAMP 2) (Epac 2). [Source:Uniprot/SWISSPROT;Acc:Q8WZA2]		15.425	-11.12	0.00067856	1123	13	5	17 [+]
RASGRP4	RAS guanyl releasing protein 4 [Source:RefSeq_peptide;Acc:NP_733749]		16.79	-16.78	0.0253608	398	18	5	46 [+]
RASIP1	Ras-interacting protein 1 (Rain). [Source:Uniprot/SWISSPROT;Acc:Q5U651]		16.065	-20.13	0.0499184	212	11	6	41 [+]
RASSF1	Ras association domain-containing protein 1. [Source:Uniprot/SWISSPROT;Acc:Q9NS23]		15.488	-15.82	0.00010392	795	27	6	36 [+]
RASSF6	Ras association domain-containing protein 6. [Source:Uniprot/SWISSPROT;Acc:Q6ZTQ3]		16.572	-14.71	0.0311281	371	16	1	40 [+]

RBBP7	Histone-binding protein RBBP7 (Retinoblastoma-binding protein 7) (RBBP-7) (Retinoblastoma-binding protein p46) (Histone acetyltransferase type B subunit 2) (Nucleosome remodeling factor subunit RBAP46). [Source:Uniprot/SWISSPROT;Acc:Q16576]		16.964	-13.5	0.021545	381	17	1	48 [+]
RBM10	RNA-binding protein 10 (RNA-binding motif protein 10) (G patch domain- containing protein 9). [Source:Uniprot/SWISSPROT;Acc:P98175]		16.857	-19.92	0.00759407	212	11	4	43 [+]
RBM22	Pre-mRNA-splicing factor RBM22 (RNA-binding motif protein 22) (Zinc finger CCCH domain-containing protein 16). [Source:Uniprot/SWISSPROT;Acc:Q9NW64]		15.536	-17.59	0.00063295	957	7	6	10 [+]
RCBTB2	RCC1 and BTB domain-containing protein 2 (Regulator of chromosome condensation and BTB domain-containing protein 2) (Chromosome condensation 1-like) (CHC1-L) (RCC1-like G exchanging factor). [Source:Uniprot/SWISSPROT;Acc:O95199]		16.911	-14.64	0.00074059	1144	15	3	18 [+]
RDH16	Retinol dehydrogenase 16 [Source:RefSeq_peptide;Acc:NP_003699]		16.927	-18.96	0.0223027	1000	18	3	26 [+]

REC8	Meiotic recombination protein REC8-like 1 (Cohesin Rec8p). [Source:Uniprot/SWISSPROT;Acc:O95072]	17.762	-16.24	0.00962523	161	10	2	37 [+]
RECQL	ATP-dependent DNA helicase Q1 (EC 3.6.1.-) (DNA-dependent ATPase Q1). [Source:Uniprot/SWISSPROT;Acc:P46063]	15.836	-9.92	0.00023794	412	19	4	47 [+]
REG4	Regenerating islet-derived protein 4 precursor (Reg IV) (REG-like protein) (Gastrointestinal secretory protein). [Source:Uniprot/SWISSPROT;Acc:Q9BYZ8]	16.155	-11.73	0.0458881	600	14	2	22 [+]
REN	Renin precursor (EC 3.4.23.15) (Angiotensinogenase). [Source:Uniprot/SWISSPROT;Acc:P00797]	16.404	-16.14	0.036402	197	11	5	32 [+]
REN	Renin precursor (EC 3.4.23.15) (Angiotensinogenase). [Source:Uniprot/SWISSPROT;Acc:P00797]	16.404	-16.14	0.036402	196	10	1	25 [+]
REPS2	RalBP1-associated Eps domain-containing protein 2 (RalBP1-interacting protein 2) (Partner of RalBP1). [Source:Uniprot/SWISSPROT;Acc:Q8NFH8]	16.97	-10.58	0.00201225	131	8	4	32 [+]

RFC3	Replication factor C subunit 3 (Replication factor C 38 kDa subunit) (RFC38) (Activator 1 38 kDa subunit) (A1 38 kDa subunit) (RF-C 38 kDa subunit). [Source:Uniprot/SWISSPROT;Acc:P40938]	18.775	-23.75	0.00388207	1201	13	3	16 [+]
RGMA	Repulsive guidance molecule A precursor (RGM domain family member A). [Source:Uniprot/SWISSPROT;Acc:Q96B86]	15.522	-20.96	2.94E-06	1581	9	6	14 [+]
RGS22	Regulator of G-protein signaling 22 (RGS22). [Source:Uniprot/SWISSPROT;Acc:Q8NE09]	16.404	-12.51	0.00891802	193	10	2	39 [+]
RGS4	Regulator of G-protein signaling 4 (RGS4) (RGP4). [Source:Uniprot/SWISSPROT;Acc:P49798]	16.63	-15.01	0.0294592	256	14	1	48 [+]
RHOBTB2	Rho-related BTB domain-containing protein 2 (Deleted in breast cancer 2 gene protein) (p83). [Source:Uniprot/SWISSPROT;Acc:Q9BYZ6]	17.507	-29	0.0129083	964	18	4	28 [+]
RHOG	Rho-related GTP-binding protein RhoG precursor. [Source:Uniprot/SWISSPROT;Acc:P84095]	15.368	-14.51	0.0307037	581	21	7	35 [+]

RKHD1	RNA-binding protein MEX3D (RING finger and KH domain-containing protein 1) (RING finger protein 193). [Source:Uniprot/SWISSPROT;Acc:Q86XN8]	16.156	-23.93	0.0458805	890	12	1	18 [+]
RLF	Zinc finger protein Rlf (Rearranged L-myc fusion gene protein) (Zn-15-related protein). [Source:Uniprot/SWISSPROT;Acc:Q13129]	15.812	-16.69	0.00109026	474	25	8	65 [+]
RNASE9	Ribonuclease-like protein 9 precursor. [Source:Uniprot/SWISSPROT;Acc:P60153]	15.452	-11.73	0.00737981	1000	16	3	19 [+]
RNASEN	Ribonuclease 3 (EC 3.1.26.3) (Ribonuclease III) (RNase III) (Drosha) (p241). [Source:Uniprot/SWISSPROT;Acc:Q9NRR4]	17.35	-15.26	0.00066371	370	20	8	58 [+]
RNASEN	Ribonuclease 3 (EC 3.1.26.3) (Ribonuclease III) (RNase III) (Drosha) (p241). [Source:Uniprot/SWISSPROT;Acc:Q9NRR4]	15.632	-15.26	0.00375661	1000	7	1	7 [+]
RNF145	Ring finger protein 145 (RNF145), mRNA [Source:RefSeq_dna;Acc:NM_144726]	17.034	-19.67	0.0201627	1259	9	2	12 [+]
RNF207	Ring finger protein 207 (RNF207), mRNA [Source:RefSeq_dna;Acc:NM_207396]	16.783	-15.38	0.0255418	390	19	1	35 [+]

RNF212	RING finger protein 212. [Source:Uniprot/SWISSPROT;Acc:Q495C1]		16.291	-12.03	0.0186589	118	7	3	30 [+]
RNF34	E3 ubiquitin-protein ligase RNF34 (EC 6.3.2.-) (RING finger protein 34) (RING finger protein RIFF) (FYVE-RING finger protein Momo) (Human RING finger homologous to inhibitor of apoptosis protein) (hRFI) (Caspases-8 and -10-associated RING finger protein 1 [Source:Uniprot/SWISSPROT;Acc:Q969K3]		16.242	-17.89	7.18E-05	776	21	5	32 [+]
RNF34	E3 ubiquitin-protein ligase RNF34 (EC 6.3.2.-) (RING finger protein 34) (RING finger protein RIFF) (FYVE-RING finger protein Momo) (Human RING finger homologous to inhibitor of apoptosis protein) (hRFI) (Caspases-8 and -10-associated RING finger protein 1 [Source:Uniprot/SWISSPROT;Acc:Q969K3]		16.244	-17.89	0.00372851	775	15	1	20 [+]
RNF6	RING finger protein 6 (RING-H2 protein). [Source:Uniprot/SWISSPROT;Acc:Q9Y252]		15.746	-11.83	5.68E-05	1056	18	8	20 [+]

RPN2	Dolichyl-diphosphooligosaccharide--protein glycosyltransferase 63 kDa subunit precursor (EC 2.4.1.119) (Ribophorin II) (RPN-II) (RIBIIR). [Source:Uniprot/SWISSPROT;Acc:P04844]		16.291	-10.68	0.00481671	302	15	4	40 [+]
RPN2	Dolichyl-diphosphooligosaccharide--protein glycosyltransferase 63 kDa subunit precursor (EC 2.4.1.119) (Ribophorin II) (RPN-II) (RIBIIR). [Source:Uniprot/SWISSPROT;Acc:P04844]		16.291	-10.68	0.0404523	308	14	1	28 [+]
RPS27	40S ribosomal protein S27 (Metallopan-stimulin 1) (MPS-1). [Source:Uniprot/SWISSPROT;Acc:P42677]		16.375	-10.88	0.0373924	389	20	1	43 [+]
RPS27A	40S ribosomal protein S27a. [Source:Uniprot/SWISSPROT;Acc:P62979]		15.493	-19.19	0.00101243	1000	18	3	20 [+]
RRH	Visual pigment-like receptor peropsin. [Source:Uniprot/SWISSPROT;Acc:O14718]		16.115	-18.93	0.00668298	510	22	4	51 [+]
RUFY2	RUN and FYVE domain-containing protein 2 (Rab4-interacting protein related). [Source:Uniprot/SWISSPROT;Acc:Q8WXA3]		15.545	-15.39	0.00055198	1000	14	3	22 [+]
RUFY2	RUN and FYVE domain-containing protein 2 (Rab4-interacting protein related). [Source:Uniprot/SWISSPROT;Acc:Q8WXA3]		16.301	-15.39	0.0392867	623	16	1	22 [+]

S100Z	Protein S100-Z (S100 calcium-binding protein Z). [Source:Uniprot/SWISSPROT;Acc:Q8WXG8]		17.571	-16.51	0.0121536	312	14	3	51 [+]
SACM1L	Suppressor of actin 1 [Source:RefSeq_peptide;Acc:NP_054735]		15.533	-14.39	0.0076551	1000	18	4	25 [+]
SAMD7	Sterile alpha motif domain-containing protein 7. [Source:Uniprot/SWISSPROT;Acc:Q7Z3H4]		15.808	-17.5	0.00052533	652	15	3	24 [+]
SAP30	Histone deacetylase complex subunit SAP30 (Sin3-associated polypeptide, 30 kDa) (Sin3 corepressor complex subunit SAP30). [Source:Uniprot/SWISSPROT;Acc:O75446]		16.857	-12.63	0.00285709	204	7	9	28 [+]
SAT1	Diamine acetyltransferase 1 (EC 2.3.1.57) (Spermidine/spermine N(1)-acetyltransferase 1) (SSAT) (SSAT-1) (Putrescine acetyltransferase) (Polyamine N-acetyltransferase 1). [Source:Uniprot/SWISSPROT;Acc:P21673]		16.297	-21.7	0.00364611	318	18	9	69 [+]

SAT1	Diamine acetyltransferase 1 (EC 2.3.1.57) (Spermidine/spermine N(1)-acetyltransferase 1) (SSAT) (SSAT-1) (Putrescine acetyltransferase) (Polyamine N-acetyltransferase 1). [Source:Uniprot/SWISSPROT;Acc:P21673]		16.404	-21.7	0.036402	257	13	1	48 [+]
SCHIP1	Schwannomin interacting protein 1 [Source:RefSeq_peptide;Acc:NP_055390]		15.832	-12.06	0.00231143	1000	19	8	32 [+]
SCN8A	Sodium channel protein type 8 subunit alpha (Sodium channel protein type VIII subunit alpha) (Voltage-gated sodium channel subunit alpha Nav1.6). [Source:Uniprot/SWISSPROT;Acc:Q9UQD0]		17.422	-8.63	0.000109	270	13	1	40 [+]
SCUBE2	Signal peptide, CUB and EGF-like domain-containing protein 2 precursor (Protein CEGP1). [Source:Uniprot/SWISSPROT;Acc:Q9NQ36]		15.404	-16.58	0.00066391	657	25	6	45 [+]
SELK_HUMAN	Selenoprotein K. [Source:Uniprot/SWISSPROT;Acc:Q9Y6D0]		16.813	-14.74	0.00016487	367	18	7	46 [+]
SEMA3A	Semaphorin-3A precursor (Semaphorin III) (Sema III). [Source:Uniprot/SWISSPROT;Acc:Q14563]		16.517	-17.04	0.00182679	197	10	10	30 [+]

SEMA3B	Semaphorin-3B precursor (Semaphorin V) (Sema V) (Sema A(V)). [Source:Uniprot/SWISSPROT;Acc:Q13214]	16.619	-10.59	7.68E-06	433	17	8	46 [+]
SEMA4C	Semaphorin-4C precursor. [Source:Uniprot/SWISSPROT;Acc:Q9C0C4]	16.388	-16.64	0.0122596	884	25	9	39 [+]
SEMG1	Semenogelin-1 precursor (Semenogelin I) (SGI) [Contains: Alpha- inhibin-92; Alpha-inhibin-31; Seminal basic protein]. [Source:Uniprot/SWISSPROT;Acc:P04279]	16.444	-17.01	0.0344693	1000	13	1	13 [+]
SETX	Probable helicase senataxin (EC 3.6.1.-) (SEN1 homolog). [Source:Uniprot/SWISSPROT;Acc:Q7Z333]	17.274	-14.96	4.36E-05	343	18	4	53 [+]
SFRS5	Splicing factor, arginine/serine-rich 5 (Pre-mRNA-splicing factor SRP40) (Delayed-early protein HRS). [Source:Uniprot/SWISSPROT;Acc:Q13243]	15.65	-16.55	7.43E-05	543	19	9	42 [+]
SFT2D1	Vesicle transport protein SFT2A (SFT2 domain-containing protein 1) (pRGR1). [Source:Uniprot/SWISSPROT;Acc:Q8WV19]	16.599	-16.05	0.0303512	481	19	4	48 [+]
SGCE	Epsilon-sarcoglycan precursor (Epsilon-SG). [Source:Uniprot/SWISSPROT;Acc:O43556]	15.725	-15.9	0.0002208	267	15	6	63 [+]

SHANK1	Synaptotagmin-3 (Synaptotagmin III) (SytIII). [Source:Uniprot/SWISSPROT;Acc:Q9BQG1]		16.449	-18.84	0.034892	506	16	1	21 [+]
SIPA1L1	Signal-induced proliferation-associated 1-like protein 1 (High-risk human papilloma viruses E6 oncoproteins targeted protein 1) (E6-targeted protein 1). [Source:Uniprot/SWISSPROT;Acc:O43166]		15.499	-17.85	0.00023244	240	9	6	29 [+]
SIPA1L2	Signal-induced proliferation-associated 1-like protein 2. [Source:Uniprot/SWISSPROT;Acc:Q9P2F8]		16.469	-18.82	0.00336129	417	20	1	44 [+]
SKP1A	S-phase kinase-associated protein 1A (Cyclin A/CDK2-associated protein p19) (p19A) (p19skp1) (RNA polymerase II elongation factor-like protein) (Organ of Corti protein 2) (OCP-II protein) (OCP-2) (Transcription elongation factor B) (SIII). [Source:Uniprot/SWISSPROT;Acc:P63208]		16.728	-18.44	0.0265317	1000	15	8	27 [+]
SLAIN1	SLAIN motif family, member 1 B [Source:RefSeq_peptide;Acc:NP_653196]		15.703	-22.59	0.00011347	1000	18	7	26 [+]
SLAIN1	SLAIN motif family, member 1 B [Source:RefSeq_peptide;Acc:NP_653196]		15.691	-22.59	0.00236702	1007	11	1	13 [+]

SLC10A7	Sodium/bile acid cotransporter 7 (Na(+)/bile acid cotransporter 7) (Solute carrier family 10 member 7). [Source:Uniprot/SWISSPROT;Acc:Q0GE19]		15.596	-18.45	1.29E-06	2080	10	5	10 [+]
SLC12A3	Solute carrier family 12 member 3 (Thiazide-sensitive sodium-chloride cotransporter) (Na-Cl symporter). [Source:Uniprot/SWISSPROT;Acc:P55017]		15.648	-19.4	0.00659024	1000	12	5	17 [+]
SLC22A7	Solute carrier family 22 member 7 isoform a [Source:RefSeq_peptide;Acc:NP_006663]		16.404	-15.93	0.036402	202	13	1	40 [+]
SLC24A2	Sodium/potassium/calcium exchanger 2 precursor (Na(+)/K(+)/Ca(2+)- exchange protein 2) (Retinal cone Na-Ca+K exchanger) (Solute carrier family 24 member 2). [Source:Uniprot/SWISSPROT;Acc:Q9UI40]		16.291	-20.42	0.039645	173	9	5	38 [+]
SLC25A38	Solute carrier family 25, member 38 [Source:RefSeq_peptide;Acc:NP_060345]		15.697	-14.39	3.10E-05	707	22	4	35 [+]
SLC25A4	ADP/ATP translocase 1 (Adenine nucleotide translocator 1) (ANT 1) (ADP,ATP carrier protein 1) (Solute carrier family 25 member 4) (ADP,ATP carrier protein, heart/skeletal muscle isoform T1). [Source:Uniprot/SWISSPROT;Acc:P12235]		16.63	-12.22	0.00305312	299	15	7	50 [+]

SLC26A11	Solute carrier family 26, member 11 [Source:RefSeq_peptide;Acc:NP_775897]		16.233	-23.62	0.00035854	780	19	4	33 [+]
SLC35A1	Uncharacterized protein C6orf165. [Source:Uniprot/SWISSPROT;Acc:Q8IYR0]		16.404	-18.87	0.00130871	215	11	5	37 [+]
SLC35B1	Solute carrier family 35 member B1 (UDP-galactose transporter-related protein 1) (UGTrel1) (hUGTrel1). [Source:Uniprot/SWISSPROT;Acc:P78383]		16.543	-16.37	0.0319799	480	15	7	32 [+]
SLC35D2	Solute carrier family 35, member D2 [Source:RefSeq_peptide;Acc:NP_008932]		16.573	-13.3	0.0310859	349	14	1	33 [+]
SLC3A1	Neutral and basic amino acid transport protein rBAT (B(0,+)-type amino acid transport protein) (NBAT) (D2H). [Source:Uniprot/SWISSPROT;Acc:Q07837]		16.102	-16.89	1.01E-06	855	20	5	27 [+]
SLC3A1	Neutral and basic amino acid transport protein rBAT (B(0,+)-type amino acid transport protein) (NBAT) (D2H). [Source:Uniprot/SWISSPROT;Acc:Q07837]		17.988	-16.89	0.00818827	182	8	1	32 [+]
SLC6A2	Sodium-dependent noradrenaline transporter (Norepinephrine transporter) (NET). [Source:Uniprot/SWISSPROT;Acc:P23975]		16.031	-18.18	2.33E-05	1000	17	4	22 [+]

SLITRK2	SLIT and NTRK-like protein 2 precursor. [Source:Uniprot/SWISSPROT;Acc:Q9H156]		16.378	-20.65	0.00243659	877	22	5	32 [+]
SLITRK2	SLIT and NTRK-like protein 2 precursor. [Source:Uniprot/SWISSPROT;Acc:Q9H156]		16.374	-20.65	0.0374298	879	16	1	16 [+]
SLMAP	Sarcolemmal membrane-associated protein (Sarcolemmal-associated protein). [Source:Uniprot/SWISSPROT;Acc:Q14BN4]		15.641	-14.44	0.00437675	1060	12	1	12 [+]
SMC1B	Structural maintenance of chromosomes protein 1B (SMC1beta protein). [Source:Uniprot/SWISSPROT;Acc:Q8NDV3]		15.756	-20.84	0.00060439	490	20	4	42 [+]
SMC6	Structural maintenance of chromosomes protein 6 (hSMC6). [Source:Uniprot/SWISSPROT;Acc:Q96SB8]		16.146	-17.65	0.0452245	1685	4	1	3 [+]
SMC6	Structural maintenance of chromosomes protein 6 (hSMC6). [Source:Uniprot/SWISSPROT;Acc:Q96SB8]		16.144	-17.65	0.0453019	1687	6	4	5 [+]
SMPDL3A	Acid sphingomyelinase-like phosphodiesterase 3a precursor (EC 3.1.4.-) (ASM-like phosphodiesterase 3a). [Source:Uniprot/SWISSPROT;Acc:Q92484]		17.535	-18.77	0.00792385	312	16	5	49 [+]

SNAP25	Synaptosomal-associated protein 25 (SNAP-25) (Synaptosomal-associated 25 kDa protein) (Super protein) (SUP). [Source:Uniprot/SWISSPROT;Acc:P60880]	16.002	-17.88	0.00419612	1220	19	8	30 [+]
SNHG5	Small nucleolar RNA host gene (non-protein coding) 5 (SNHG5) on chromosome 6 [Source:RefSeq_dna;Acc:NR_003038]	17.083	-13.68	0.00012329	277	15	1	41 [+]
SNHG5	Small nucleolar RNA host gene (non-protein coding) 5 (SNHG5) on chromosome 6 [Source:RefSeq_dna;Acc:NR_003038]	17.029	-25.33	0.00156837	355	17	1	45 [+]
SNHG5	Small nucleolar RNA host gene (non-protein coding) 5 (SNHG5) on chromosome 6 [Source:RefSeq_dna;Acc:NR_003038]	16.769	-13.68	0.00167117	354	17	1	34 [+]
SNX11	Sorting nexin-11. [Source:Uniprot/SWISSPROT;Acc:Q9Y5W9]	15.311	-20.2	0.00015362	1235	16	4	17 [+]
SNX17	Sorting nexin-17. [Source:Uniprot/SWISSPROT;Acc:Q15036]	15.63	-15.99	0.00024844	409	19	8	44 [+]
SNX2	Sorting nexin-2 (Transformation-related gene 9 protein) (TRG-9). [Source:Uniprot/SWISSPROT;Acc:O60749]	15.907	-13.65	0.032	457	20	10	57 [+]

SOAT2	Sterol O-acyltransferase 2 (EC 2.3.1.26) (Cholesterol acyltransferase 2) (Acyl coenzyme A:cholesterol acyltransferase 2) (ACAT-2). [Source:Uniprot/SWISSPROT;Acc:O75908]	17.133	-15.91	0.00163853	415	19	4	60 [+]
SOD1	Superoxide dismutase [Cu-Zn] (EC 1.15.1.1). [Source:Uniprot/SWISSPROT;Acc:P00441]	15.386	-10.51	0.0007012	239	13	5	53 [+]
SOS1	Son of sevenless homolog 1 (SOS-1). [Source:Uniprot/SWISSPROT;Acc:Q07889]	15.365	-13.77	0.00030095	1000	24	10	32 [+]
SOX17	Transcription factor SOX-17. [Source:Uniprot/SWISSPROT;Acc:Q9H6I2]	17.54	-12.7	0.00745079	376	17	6	52 [+]
SP140	Nuclear body protein SP140 (Nuclear autoantigen Sp-140) (Speckled 140 kDa) (LYSp100 protein) (Lymphoid-restricted homolog of Sp100). [Source:Uniprot/SWISSPROT;Acc:Q13342]	16.195	-24.3	0.00060437	487	13	2	29 [+]
SPATA4	Spermatogenesis-associated protein 4 (Testis spermatocyte apoptosis-related gene 2 protein) (Testis and spermatogenesis cell-related protein 2). [Source:Uniprot/SWISSPROT;Acc:Q8NEY3]	17.422	-18.6	0.00397441	206	11	4	37 [+]

SPG20	Spartin (Trans-activated by hepatitis C virus core protein 1). [Source:Uniprot/SWISSPROT;Acc:Q8N0X7]		16.422	-15.58	0.0357982	617	18	1	19 [+]
SPG21	Maspardin (Spastic paraplegia 21 autosomal recessive Mast syndrome protein) (Acid cluster protein 33). [Source:Uniprot/SWISSPROT;Acc:Q9NZD8]		15.866	-11.74	0.0021564	597	22	8	53 [+]
SPP1	Osteopontin precursor (Bone sialoprotein-1) (Secreted phosphoprotein 1) (SPP-1) (Urinary stone protein) (Nephropontin) (Uropontin). [Source:Uniprot/SWISSPROT;Acc:P10451]		16.958	-15.51	8.05E-05	430	19	7	39 [+]
SPP1	Osteopontin precursor (Bone sialoprotein-1) (Secreted phosphoprotein 1) (SPP-1) (Urinary stone protein) (Nephropontin) (Uropontin). [Source:Uniprot/SWISSPROT;Acc:P10451]		16.615	-15.51	0.00252092	520	17	1	21 [+]
SPSB3	SPRY domain-containing SOCS box protein 3 (SSB-3). [Source:Uniprot/SWISSPROT;Acc:Q6PJ21]		15.958	-22.12	0.00189482	384	20	6	70 [+]

SRGN	Secretory granule proteoglycan core protein precursor (Platelet proteoglycan core protein) (P.PG) (Hematopoietic proteoglycan core protein) (Serglycin). [Source:Uniprot/SWISSPROT;Acc:P10124]		16.92	-11.02	0.0182221	689	21	4	32 [+]
SS18L2	SS18-like protein 2 (SYT homolog 2). [Source:Uniprot/SWISSPROT;Acc:Q9UHA2]		15.988	-12.03	0.00281995	485	20	4	43 [+]
SSB	Lupus La protein (Sjogren syndrome type B antigen) (SS-B) (La ribonucleoprotein) (La autoantigen). [Source:Uniprot/SWISSPROT;Acc:P05455]		17.309	-10.02	0.0155574	285	17	6	60 [+]
SSX1	Protein SSX1 (Synovial sarcoma, X breakpoint 1). [Source:Uniprot/SWISSPROT;Acc:Q16384]		16.171	-19.4	0.0452462	595	14	1	23 [+]
SSX2	Protein SSX2 (Synovial sarcoma, X breakpoint 2) (SSX) (HOM-MEL-40). [Source:Uniprot/SWISSPROT;Acc:Q16385]		16.171	-19.4	0.0452462	627	18	1	24 [+]
SSX2_HUMAN	Protein SSX2 (Synovial sarcoma, X breakpoint 2) (SSX) (HOM-MEL-40). [Source:Uniprot/SWISSPROT;Acc:Q16385]		16.171	-19.4	0.0452462	631	18	1	24 [+]

SSX3	Protein SSX3. [Source:Uniprot/SWISSPROT;Acc:Q99909]		16.701	-19.4	0.0275817	414	23	1	53 [+]
SSX3	Protein SSX3. [Source:Uniprot/SWISSPROT;Acc:Q99909]		16.174	-19.4	0.0451177	612	18	1	29 [+]
SSX5	Protein SSX5. [Source:Uniprot/SWISSPROT;Acc:O60225]		16.189	-19.4	0.0444763	641	17	1	28 [+]
SSX8	Protein SSX8. [Source:Uniprot/SWISSPROT;Acc:Q7RTT4]		16.171	-19.4	0.0452462	595	17	1	26 [+]
SSX9	Protein SSX9. [Source:Uniprot/SWISSPROT;Acc:Q7RTT3]		16.174	-19.4	0.0451177	600	18	1	30 [+]
ST3GAL4	CMP- <i>N</i> -acetylneuraminate- β -galactosamide- α -2,3-sialyltransferase (EC 2.4.99.-) (Beta-galactoside alpha-2,3-sialyltransferase) (Alpha 2,3-sialyltransferase IV) (Alpha 2,3-ST) (Gal-NAc6S) (STZ) (SIAT4-C) (ST3Gal III) (SAT-3) (ST-4). [Source:Uniprot/SWISSPROT;Acc:Q11206]		16.857	-13.03	0.00272659	219	12	3	37 [+]
ST6GALNAC5	α -N-acetylgalactosaminide alpha-2,6-sialyltransferase 5 (EC 2.4.99.-) (GalNAc alpha-2,6-sialyltransferase V) (ST6GalNAc V) (GD1 alpha synthase) (Sialyltransferase 7E). [Source:Uniprot/SWISSPROT;Acc:Q9BVH7]		15.424	-10.3	0.00168214	828	16	4	24 [+]

STAG2	Cohesin subunit SA-2 (Stromal antigen 2) (SCC3 homolog 2). [Source:Uniprot/SWISSPROT;Acc:Q8N3U4]		16.047	-9.85	0.00433751	1000	9	1	8 [+]
STK32C	Serine/threonine-protein kinase 32C (EC 2.7.11.1) (PKE) (YANK3). [Source:Uniprot/SWISSPROT;Acc:Q86UX6]		16.089	-13.7	0.0109064	518	19	4	40 [+]
STX11	Syntaxin-11. [Source:Uniprot/SWISSPROT;Acc:O75558]		15.533	-19.39	0.00047755	879	13	2	16 [+]
SYNPR	Synaptoporin. [Source:Uniprot/SWISSPROT;Acc:Q8TBG9]		16.056	-14.01	4.88E-05	1439	10	6	12 [+]
TADA1L	SPT3-associated factor 42 [Source:RefSeq_peptide;Acc:NP_444281]		15.943	-17.03	4.89E-07	1057	15	8	22 [+]
TADA3L	Transcriptional adapter 3-like (ADA3-like protein) (ADA3 homolog) (hADA3). [Source:Uniprot/SWISSPROT;Acc:O75528]		16.374	-15.71	0.00411696	497	22	5	49 [+]
TAF13	Transcription initiation factor TFIID subunit 13 (Transcription initiation factor TFIID 18 kDa subunit) (TAF(II)18) (TAFII-18) (TAFII18). [Source:Uniprot/SWISSPROT;Acc:Q15543]		16.437	-12.49	0.00098593	664	20	4	36 [+]

TAF15	TATA-binding protein-associated factor 2N (RNA-binding protein 56) (TAFII68) (TAF(II)68). [Source:Uniprot/SWISSPROT;Acc:Q92804]		19.006	-16.14	0.00311714	288	16	4	67 [+]
TAF1A	TATA box-binding protein-associated factor RNA polymerase I subunit A (TATA box-binding protein-associated factor 1A) (TBP-associated factor 1A) (TBP-associated factor RNA polymerase I 48 kDa) (TAFI48) (Transcription factor SL1). [Source:Uniprot/SWISSPROT;Acc:Q15573]		17.896	-14.54	0.00171725	352	18	5	68 [+]
TAF1A	TATA box-binding protein-associated factor RNA polymerase I subunit A (TATA box-binding protein-associated factor 1A) (TBP-associated factor 1A) (TBP-associated factor RNA polymerase I 48 kDa) (TAFI48) (Transcription factor SL1). [Source:Uniprot/SWISSPROT;Acc:Q15573]		16.436	-14.54	0.0353181	729	17	1	22 [+]
TAF9	Adenylate kinase isoenzyme 6 (EC 2.7.4.3) (ATP-AMP transphosphorylase 6). [Source:Uniprot/SWISSPROT;Acc:Q9Y3D8]		16.857	-10.87	0.00014476	199	10	4	40 [+]

TAF9	Adenylate kinase isoenzyme 6 (EC 2.7.4.3) (ATP-AMP transphosphorylase 6). [Source:Uniprot/SWISSPROT;Acc:Q9Y3D8]		16.857	-10.87	0.00014476	198	11	1	30 [+]
TAP1	Antigen peptide transporter 1 (APT1) (Peptide transporter TAP1) (ATP-binding cassette sub-family B member 2) (Peptide transporter PSF1) (Peptide supply factor 1) (PSF-1) (Peptide transporter involved in antigen processing 1). [Source:Uniprot/SWISSPROT;Acc:Q03518]		15.518	-12.26	0.00960175	530	24	5	60 [+]
TARBP2	TAR RNA-binding protein 2 (Trans-activation-responsive RNA-binding protein). [Source:Uniprot/SWISSPROT;Acc:Q15633]		16.97	-16.81	0.00406873	281	16	8	74 [+]
TAS2R60	Taste receptor type 2 member 60 (T2R60) (T2R56). [Source:Uniprot/SWISSPROT;Acc:P59551]		16.728	-17.1	0.00539587	1000	20	3	25 [+]
TBCD	Tubulin-specific chaperone D (Tubulin-folding cofactor D) (Beta-tubulin cofactor D) (tfcD) (SSD-1). [Source:Uniprot/SWISSPROT;Acc:Q9BTW9]		17.404	-14.71	0.0142283	717	19	1	30 [+]
TBCD	Tubulin-specific chaperone D (Tubulin-folding cofactor D) (Beta-tubulin cofactor D) (tfcD) (SSD-1). [Source:Uniprot/SWISSPROT;Acc:Q9BTW9]		16.827	-14.71	0.0244905	1000	23	2	27 [+]

TBCK_HUMAN	TBC domain-containing protein kinase-like protein. [Source:Uniprot/SWISSPROT;Acc:Q8TEA7]		15.981	-10.74	0.00065887	487	20	2	29 [+]
TBPL1	TATA box-binding protein-like protein 1 (TBP-like protein 1) (TATA box-binding protein-related factor 2) (TBP-related factor 2) (STUD protein) (21 kDa TBP-like protein). [Source:Uniprot/SWISSPROT;Acc:P62380]		15.797	-9.56	7.54E-05	449	15	7	40 [+]
TBXA2R	Thromboxane A2 receptor (TXA2-R) (Prostanoid TP receptor). [Source:Uniprot/SWISSPROT;Acc:P21731]		17.875	-13.84	0.00911416	169	9	1	21 [+]
TBXAS1	Thromboxane-A synthase (EC 5.3.99.5) (TXA synthase) (TXS) (Cytochrome P450 5A1). [Source:Uniprot/SWISSPROT;Acc:P24557]		16.291	-17.53	0.00884967	192	11	4	44 [+]
TBXAS1	Thromboxane-A synthase (EC 5.3.99.5) (TXA synthase) (TXS) (Cytochrome P450 5A1). [Source:Uniprot/SWISSPROT;Acc:P24557]		16.291	-17.53	0.0404523	251	12	1	43 [+]
TCERG1	Transcription elongation regulator 1 (TATA box-binding protein-associated factor 2S) (Transcription factor CA150). [Source:Uniprot/SWISSPROT;Acc:O14776]		15.406	-15.64	5.58E-05	865	18	8	38 [+]

TCF2	Hepatocyte nuclear factor 1-beta (HNF-1beta) (HNF-1B) (Variant hepatic nuclear factor 1) (VHNF1) (Homeoprotein LFB3) (Transcription factor 2) (TCF-2). [Source:Uniprot/SWISSPROT;Acc:P35680]	16.431	-15.94	0.0052979	940	15	7	23 [+]
TEX14	Testis-expressed protein 14 (Testis-expressed sequence 14) (Protein kinase-like protein SgK307) (Sugen kinase 307). [Source:Uniprot/SWISSPROT;Acc:Q8IWB6]	16.599	-20.52	0.0303383	324	20	4	82 [+]
TEX14	Testis-expressed protein 14 (Testis-expressed sequence 14) (Protein kinase-like protein SgK307) (Sugen kinase 307). [Source:Uniprot/SWISSPROT;Acc:Q8IWB6]	16.565	-20.52	0.0313222	330	17	1	54 [+]
TGDS	dTDP-D-glucose 4,6-dehydratase (EC 4.2.1.46). [Source:Uniprot/SWISSPROT;Acc:O95455]	15.463	-19.4	0.00683835	725	20	9	35 [+]
TGFBI	Transforming growth factor-beta-induced protein ig-h3 precursor (Beta ig-h3) (Kerato-epithelin) (RGD-containing collagen-associated protein) (RGD-CAP). [Source:Uniprot/SWISSPROT;Acc:Q15582]	18.004	-18.69	0.00012959	439	24	7	55 [+]

TGFBRAP1	TGF beta receptor associated protein - 1 [Source:RefSeq_peptide;Acc:NP_004248]		17.309	-17.78	6.05E-06	298	17	6	73 [+]
TGIF2	Homeobox protein TGIF2 (5'-TG-3'-interacting factor 2) (TGFB-induced factor 2) (TGF(beta)-induced transcription factor 2). [Source:Uniprot/SWISSPROT;Acc:Q9GZN2]		15.818	-25.62	0.0007524	2519	10	5	10 [+]
THBS4	Thrombospondin-4 precursor. [Source:Uniprot/SWISSPROT;Acc:P35443]		15.838	-12.19	1.55E-06	141	9	6	26 [+]
THOC7	Ngg1 interacting factor 3 like 1 binding protein 1 [Source:RefSeq_peptide;Acc:NP_079351]		16.178	-11.29	0.0439477	261	13	4	46 [+]
TIMELESS	Timeless homolog (hTIM). [Source:Uniprot/SWISSPROT;Acc:Q9UNS1]		15.553	-13.58	0.0081201	590	24	4	47 [+]
TIMM17A	Mitochondrial import inner membrane translocase subunit Tim17-A (Inner membrane preprotein translocase Tim17a). [Source:Uniprot/SWISSPROT;Acc:Q99595]		15.673	-11.89	0.00033512	1107	21	3	27 [+]
TJP2	Tight junction protein ZO-2 (Zonula occludens 2 protein) (Zona occludens 2 protein) (Tight junction protein 2). [Source:Uniprot/SWISSPROT;Acc:Q9UDY2]		16.557	-18.3	0.0310604	664	15	1	22 [+]

TLE4	Transducin-like enhancer protein 4. [Source:Uniprot/SWISSPROT;Acc:Q04727]		16.63	-18.26	0.0294592	202	9	1	43 [+]
TLR1	Toll-like receptor 1 precursor (Toll/interleukin-1 receptor-like protein) (TIL) (CD281 antigen). [Source:Uniprot/SWISSPROT;Acc:Q15399]		15.612	-11.14	0.00551568	212	11	4	43 [+]
TM4SF19	Transmembrane 4 L6 family member 19. [Source:Uniprot/SWISSPROT;Acc:Q96DZ7]		16.065	-18.16	0.048693	219	11	3	41 [+]
TMCO3	Transmembrane and coiled-coil domain-containing protein 3 precursor (Putative LAG1-interacting protein). [Source:Uniprot/SWISSPROT;Acc:Q6UWJ1]		18.44	-21.15	0.00041725	653	20	6	35 [+]
TMCO3	Transmembrane and coiled-coil domain-containing protein 3 precursor (Putative LAG1-interacting protein). [Source:Uniprot/SWISSPROT;Acc:Q6UWJ1]		18.697	-21.15	0.00418194	574	15	1	26 [+]
TMCO3	Transmembrane and coiled-coil domain-containing protein 3 precursor (Putative LAG1-interacting protein). [Source:Uniprot/SWISSPROT;Acc:Q6UWJ1]		18.33	-21.15	0.00591893	691	14	1	17 [+]

TMCO4	Transmembrane and coiled-coil domains 4 [Source:RefSeq_peptide;Acc:NP_859070]	16.046	-17.42	0.00224345	389	17	1	35 [+]
TMED4	Transmembrane emp24 domain-containing protein 4 precursor. [Source:Uniprot/SWISSPROT;Acc:Q7Z7H5]	15.523	-17.98	3.74E-07	1582	8	6	9 [+]
TMED8	Protein TMED8. [Source:Uniprot/SWISSPROT;Acc:Q6PL24]	15.32	-24.24	1.25E-07	2525	2	2	3 [+]
TMEM131	Transmembrane protein 131 (Protein RW1) (Fragment). [Source:Uniprot/SWISSPROT;Acc:Q92545]	16.586	-18.7	0.00069584	759	23	8	30 [+]
TMEM142A	Calcium release-activated calcium channel protein 1 (Transmembrane protein 142A) (Protein orai-1). [Source:Uniprot/SWISSPROT;Acc:Q96D31]	17.364	-25.6	0.00474675	389	21	6	74 [+]
TMEM173	Transmembrane protein 173. [Source:Uniprot/SWISSPROT;Acc:Q86WV6]	15.939	-17.75	0.00075243	727	17	4	30 [+]
TMEM18	Transmembrane protein 18. [Source:Uniprot/SWISSPROT;Acc:Q96B42]	15.595	-16.76	0.00013669	1605	8	3	8 [+]
TMEM22	Transmembrane protein 22. [Source:Uniprot/SWISSPROT;Acc:Q8TBE7]	16.517	-10.39	8.21E-05	183	9	8	38 [+]
TMEM64	Transmembrane protein 64 [Source:RefSeq_peptide;Acc:NP_001008495]	15.485	-10.83	1.65E-08	1000	17	7	16 [+]

TMM29_HUMAN	Transmembrane protein 29. [Source:Uniprot/SWISSPROT;Acc:Q8NDB6]		16.178	-24.37	0.0449427	195	10	1	27 [+]
TNFAIP6	Tumor necrosis factor-inducible protein TSG-6 precursor (TNF-stimulated gene 6 protein) (Hyaluronate-binding protein). [Source:Uniprot/SWISSPROT;Acc:P98066]		15.971	-13.58	0.00281902	510	20	7	54 [+]
TNFRSF11B	Tumor necrosis factor receptor superfamily member 11B precursor (Osteoprotegerin) (Osteoclastogenesis inhibitory factor). [Source:Uniprot/SWISSPROT;Acc:O00300]		15.471	-13.06	0.00093983	816	17	4	21 [+]
TOM1L1	TOM1-like protein 1 (Target of Myb-like protein 1) (Src-activating and signaling molecule protein). [Source:Uniprot/SWISSPROT;Acc:O75674]		16.273	-12.15	0.00182172	716	21	4	28 [+]
TOMM70A	Mitochondrial precursor proteins import receptor (Translocase of outer membrane TOM70). [Source:Uniprot/SWISSPROT;Acc:O94826]		17.535	-20.11	0.00017871	267	16	7	90 [+]
TOPBP1	DNA topoisomerase 2-binding protein 1 (DNA topoisomerase II-binding protein 1) (DNA topoisomerase IIbeta-binding protein 1) (TopBP1). [Source:Uniprot/SWISSPROT;Acc:Q92547]		16.245	-14.29	0.021731	644	18	6	29 [+]

TP53BP2	Apoptosis-stimulating of p53 protein 2 (Tumor suppressor p53-binding protein 2) (p53-binding protein 2) (p53BP2) (53BP2) (Bcl2-binding protein) (Bbp) (Renal carcinoma antigen NY-REN-51). [Source:Uniprot/SWISSPROT;Acc:Q13625]		16.165	-22.77	0.044452	764	15	1	21 [+]
TPM1	Tropomyosin-1 alpha chain (Alpha-tropomyosin). [Source:Uniprot/SWISSPROT;Acc:P09493]		17.422	-18.98	0.0139816	241	14	1	47 [+]
TPRX1	Tetra-peptide repeat homeobox [Source:RefSeq_peptide;Acc:NP_940881]		15.937	-9.88	0.00451401	532	19	2	32 [+]
TPT1	Translationally-controlled tumor protein (TCTP) (p23) (Histamine-releasing factor) (HRF) (Fortilin). [Source:Uniprot/SWISSPROT;Acc:P13693]		16.004	-16.64	0.00331373	424	14	1	32 [+]
TRAIP	TRAF-interacting protein (RING finger protein 206). [Source:Uniprot/SWISSPROT;Acc:Q9BWF2]		15.666	-13.79	0.00646316	508	16	4	34 [+]
TRAPPC3	Trafficking protein particle complex subunit 3 (BET3 homolog). [Source:Uniprot/SWISSPROT;Acc:O43617]		15.952	-15.83	0.00406873	258	12	1	35 [+]
TRBV3-1	T-cell receptor beta V gene segment [Source:IMGT/GENE_DB;Acc:TRBV3-1]		16.728	-21.98	0.02689	1000	13	2	15 [+]

TRIM3	Tripartite motif-containing protein 3 (RING finger protein 22) (Brain-expressed RING finger protein) (RING finger protein 97). [Source:Uniprot/SWISSPROT;Acc:O75382]		18.353	-22.65	0.00037469	411	21	7	75 [+]
TRIM3	Tripartite motif-containing protein 3 (RING finger protein 22) (Brain-expressed RING finger protein) (RING finger protein 97). [Source:Uniprot/SWISSPROT;Acc:O75382]		16.728	-22.65	0.0265317	1000	15	1	16 [+]
TRIM71	Tripartite motif-containing protein 71 (Lin-41 homolog). [Source:Uniprot/SWISSPROT;Acc:Q2Q1W2]		15.319	-12.03	0.00010551	1000	20	7	32 [+]
TRIML1	Tripartite motif family-like protein 1 (RING finger protein 209). [Source:Uniprot/SWISSPROT;Acc:Q8N9V2]		15.499	-21.11	0.00110806	123	7	3	25 [+]
TRIP4	Activating signal cointegrator 1 (ASC1) (Thyroid receptor-interacting protein 4) (TRIP-4). [Source:Uniprot/SWISSPROT;Acc:Q15650]		16.065	-13.52	0.00486711	214	14	8	37 [+]
TSG101	Tumor susceptibility gene 101 protein. [Source:Uniprot/SWISSPROT;Acc:Q99816]		17.988	-14.04	0.00768944	231	14	6	71 [+]
TSGA10	Testis specific, 10 [Source:RefSeq_peptide;Acc:NP_079520]		15.916	-17.74	0.00221209	319	15	5	48 [+]

TSPAN8	Tetraspanin-8 (Tspan-8) (Transmembrane 4 superfamily member 3) (Tumor- associated antigen CO-029). [Source:Uniprot/SWISSPROT;Acc:P19075]	15.838	-9.9	0.00275001	237	14	6	44 [+]
TSSC1	Protein TSSC1 (Tumor-suppressing subchromosomal transferable fragment candidate gene 1 protein) (Tumor-suppressing STF cDNA 1 protein). [Source:Uniprot/SWISSPROT;Acc:Q53HC9]	15.441	-11.36	0.00414428	353	15	1	54 [+]
TSSC1	Protein TSSC1 (Tumor-suppressing subchromosomal transferable fragment candidate gene 1 protein) (Tumor-suppressing STF cDNA 1 protein). [Source:Uniprot/SWISSPROT;Acc:Q53HC9]	15.365	-11.36	0.00421738	369	16	8	65 [+]
TTC18	Tetratricopeptide repeat domain 18 [Source:RefSeq_peptide;Acc:NP_660153]	17.083	-22.16	9.17E-05	213	11	6	47 [+]
TTC18	Tetratricopeptide repeat domain 18 [Source:RefSeq_peptide;Acc:NP_660153]	17.083	-22.16	0.0192564	209	10	1	33 [+]
TTC21B	Tetratricopeptide repeat domain 21B [Source:RefSeq_peptide;Acc:NP_079029]	16.883	-15.2	0.0232421	423	20	4	53 [+]

TTC32	Tetratricopeptide repeat protein 32 (TPR repeat protein 32). [Source:Uniprot/SWISSPROT;Acc:Q5I0X7]		15.838	-14.83	0.00128912	228	12	6	38 [+]
TTF1	Transcription termination factor 1 (TTF-1) (TTF-I) (RNA polymerase I termination factor). [Source:Uniprot/SWISSPROT;Acc:Q15361]		16.37	-9.94	0.0375729	367	19	3	58 [+]
TTLL11	Tubulin--tyrosine ligase-like protein 11. [Source:Uniprot/SWISSPROT;Acc:Q8NHH1]		15.386	-16.22	0.00789276	207	12	3	56 [+]
TUBAL3	Tubulin, α -like 3 [Source:RefSeq_peptide;Acc:NP_079079]		15.807	-11.58	0.00163901	419	21	5	56 [+]
TUBB6	Tubulin β -6 chain. [Source:Uniprot/SWISSPROT;Acc:Q9BUF5]		15.685	-13.32	0.00782593	422	16	5	35 [+]
TUSC3	Tumor suppressor candidate 3 (Protein N33). [Source:Uniprot/SWISSPROT;Acc:Q13454]		16.766	-10.54	0.00061759	334	17	5	58 [+]
TUSC3	Tumor suppressor candidate 3 (Protein N33). [Source:Uniprot/SWISSPROT;Acc:Q13454]		16.31	-10.54	0.0389693	429	16	1	39 [+]
TYBN_HUMAN	NB thymosin beta (Thymosin-like protein 8). [Source:Uniprot/SWISSPROT;Acc:Q99406]		16.782	-14.98	0.0252292	396	13	1	34 [+]

U3045_HUMAN	Protein UNQ3045/PRO9861 precursor. [Source:Uniprot/SWISSPROT;Acc:Q6UWE3]		16.086	-13.97	0.0434846	1000	22	3	33 [+]
UBAC2	UBA domain-containing protein PHGDHL1 precursor. [Source:Uniprot/SWISSPROT;Acc:Q8NBM4]		17.83	-14.14	0.00330366	363	19	1	49 [+]
UCHL1	Ubiquitin carboxyl-terminal hydrolase isozyme L1 (EC 3.4.19.12) (EC 6.-.-.) (UCH-L1) (Ubiquitin thioesterase L1) (Neuron cytoplasmic protein 9.5) (PGP 9.5) (PGP9.5). [Source:Uniprot/SWISSPROT;Acc:P09936]		15.427	-9.64	0.00075255	356	17	7	74 [+]
UCN2	Urocortin-2 precursor (Urocortin II) (Ucn II) (Stresscopin-related peptide) (Urocortin-related peptide). [Source:Uniprot/SWISSPROT;Acc:Q96RP3]		16.622	-24.5	0.0296932	1066	16	3	20 [+]
UGCGL2	UDP-glucose:glycoprotein glucosyltransferase 2 precursor (EC 2.4.1.-) (UDP-glucose ceramide glucosyltransferase-like 1) (UDP--Glc:glycoprotein glucosyltransferase 2) (HUGT2). [Source:Uniprot/SWISSPROT;Acc:Q9NYU1]		16.178	-9.75	0.0449427	210	12	5	38 [+]

UGT8	2-Hydroxyacylsphingosine 1-beta-galactosyltransferase precursor (EC 2.4.1.45) (UDP-galactose-ceramide galactosyltransferase) (Ceramide UDP-galactosyltransferase) (Cerebroside synthase). [Source:Uniprot/SWISSPROT;Acc:Q16880]	16.961	-20.29	0.00213274	1000	19	5	26 [+]
UNC5A	Netrin receptor UNC5A precursor (Unc-5 homolog A) (Unc-5 homolog 1). [Source:Uniprot/SWISSPROT;Acc:Q6ZN44]	15.319	-21.67	0.00355622	1010	23	6	29 [+]
UPB1	β -Ureidopropionase (EC 3.5.1.6) (Beta-alanine synthase) (N-carbamoyl-beta-alanine amidohydrolase) (BUP-1). [Source:Uniprot/SWISSPROT;Acc:Q9UBR1]	16.133	-15.96	0.00106615	790	25	2	31 [+]
UQCRH	Ubiquinol-cytochrome c reductase complex 11 kDa protein, mitochondrial precursor (EC 1.10.2.2) (Mitochondrial hinge protein) (Cytochrome c1 nonheme 11 kDa protein) (Complex III subunit VIII). [Source:Uniprot/SWISSPROT;Acc:P07919]	18.214	-12.56	0.00660821	192	9	4	31 [+]

UQCRH	Ubiquinol-cytochrome c reductase complex 11 kDa protein, mitochondrial precursor (EC 1.10.2.2) (Mitochondrial hinge protein) (Cytochrome c1 nonheme 11 kDa protein) (Complex III subunit VIII). [Source:Uniprot/SWISSPROT;Acc:P07919]		18.214	-12.56	0.00660821	189	9	1	22 [+]
USPL1	Ubiquitin-specific peptidase-like protein 1. [Source:Uniprot/SWISSPROT;Acc:Q5W0Q7]		18.214	-12.31	0.0006508	193	11	7	49 [+]
VAPB	Vesicle-associated membrane protein-associated protein B/C (VAMP-associated protein B/C) (VAMP-B/VAMP-C) (VAP-B/VAP-C). [Source:Uniprot/SWISSPROT;Acc:O95292]		15.46	-22.14	0.00091202	2668	4	5	4 [+]
VAPB	Vesicle-associated membrane protein-associated protein B/C (VAMP-associated protein B/C) (VAMP-B/VAMP-C) (VAP-B/VAP-C). [Source:Uniprot/SWISSPROT;Acc:O95292]		17.063	-22.14	0.0196211	923	15	1	17 [+]
VBP1	Prefoldin subunit 3 (Von Hippel-Lindau-binding protein 1) (VHL-binding protein 1) (VBP-1) (HIBBJ46). [Source:Uniprot/SWISSPROT;Acc:P61758]		16.188	-15.59	0.00930473	974	19	3	24 [+]

VCAM1	Vascular cell adhesion protein 1 precursor (V-CAM 1) (CD106 antigen) (INCAM-100). [Source:Uniprot/SWISSPROT;Acc:P19320]	17.196	-12.55	0.0173093	171	7	1	17 [+]
VCAM1	Vascular cell adhesion protein 1 precursor (V-CAM 1) (CD106 antigen) (INCAM-100). [Source:Uniprot/SWISSPROT;Acc:P19320]	15.644	-12.55	0.0223217	758	23	7	30 [+]
VDAC2	Voltage-dependent anion-selective channel protein 2 (VDAC-2) (hVDAC2) (Outer mitochondrial membrane protein porin 2). [Source:Uniprot/SWISSPROT;Acc:P45880]	17.179	-13.39	0.0175887	340	17	1	48 [+]
VDAC2	Voltage-dependent anion-selective channel protein 2 (VDAC-2) (hVDAC2) (Outer mitochondrial membrane protein porin 2). [Source:Uniprot/SWISSPROT;Acc:P45880]	16.623	-13.39	0.0296755	459	18	1	38 [+]
VLDLR	Very low-density lipoprotein receptor precursor (VLDL receptor) (VLDL-R). [Source:Uniprot/SWISSPROT;Acc:P98155]	16.773	-18.5	0.0257667	612	21	1	33 [+]
VLDLR	Very low-density lipoprotein receptor precursor (VLDL receptor) (VLDL-R). [Source:Uniprot/SWISSPROT;Acc:P98155]	16.759	-18.5	0.0261194	617	24	6	59 [+]

VNN2	Vascular non-inflammatory molecule 2 precursor (Vanin-2) (Glycosylphosphatidyl inositol-anchored protein GPI-80) (Protein FOAP- 4). [Source:Uniprot/SWISSPROT;Acc:O95498]	16.414	-10.86	0.0148944	430	20	4	53 [+]
VNN2	Vascular non-inflammatory molecule 2 precursor (Vanin-2) (Glycosylphosphatidyl inositol-anchored protein GPI-80) (Protein FOAP- 4). [Source:Uniprot/SWISSPROT;Acc:O95498]	16.522	-10.86	0.0326061	405	18	1	47 [+]
VPS33B	Vacuolar protein sorting-associated protein 33B (hVPS33B). [Source:Uniprot/SWISSPROT;Acc:Q9H267]	16.404	-10.67	0.036402	300	18	7	70 [+]
VPS41	Vacuolar protein sorting-associated protein 41 homolog (S53). [Source:Uniprot/SWISSPROT;Acc:P49754]	15.461	-14.32	7.57E-05	2302	3	3	3 [+]
VRK3	Serine/threonine-protein kinase VRK3 (EC 2.7.11.1) (Vaccinia-related kinase 3). [Source:Uniprot/SWISSPROT;Acc:Q8IV63]	15.746	-13.77	1.69E-05	327	18	5	74 [+]
WBP7_HUMAN	WW domain-binding protein 7 (Myeloid/lymphoid or mixed-lineage leukemia protein 4) (Trithorax homolog 2). [Source:Uniprot/SWISSPROT;Acc:Q9UMN6]	16.392	-18.61	0.014966	321	19	7	70 [+]

WDFY1	WD repeat and FYVE domain-containing protein 1 (WD40- and FYVE domain- containing protein 1) (Phosphoinositide-binding protein 1) (FENS-1) (Zinc finger FYVE domain-containing protein 17). [Source:Uniprot/SWISSPROT;Acc:Q8IWB7]		15.945	-21.69	0.00899233	3323	2	2	3 [+]
WDFY2	WD repeat and FYVE domain-containing protein 2 (WD40- and FYVE domain- containing protein 2) (Zinc finger FYVE domain-containing protein 22). [Source:Uniprot/SWISSPROT;Acc:Q96P53]		16.32	-13.35	0.00149085	314	18	5	72 [+]
WDR21A	WD repeat protein 21A. [Source:Uniprot/SWISSPROT;Acc:Q8WV16]		16.105	-15.62	0.00384484	843	12	2	12 [+]
WDR22	WD repeat protein 22 (Breakpoint cluster region protein 2) (BCRP2). [Source:Uniprot/SWISSPROT;Acc:Q96JK2]		16.865	-17.1	0.00076771	1000	19	6	29 [+]
WDR27	WD repeat domain 27 [Source:RefSeq_peptide;Acc:NP_872358]		16.371	-18.86	4.02E-05	1000	20	2	26 [+]
WDR45L	WD repeat domain phosphoinositide-interacting protein 3 (WIPI-3) (WD repeat protein 45-like) (WDR45-like protein) (WIPI49-like protein). [Source:Uniprot/SWISSPROT;Acc:Q5MNZ6]		15.517	-18.18	6.58E-06	1307	14	6	17 [+]

WDR46	WD repeat domain 46 (WDR46), mRNA [Source:RefSeq_dna;Acc:NM_005452]	17.083	-20.59	0.0192564	171	11	6	44 [+]
WDR60	WD repeat protein 60. [Source:Uniprot/SWISSPROT;Acc:Q8WVS4]	15.832	-14.56	0.00114887	1000	20	3	23 [+]
WDR71	WD repeat protein 71 (Protein G-16). [Source:Uniprot/SWISSPROT;Acc:Q9BRP4]	15.675	-16.96	0.0499385	329	18	3	45 [+]
WDSUB1	WD repeat, SAM and U-box domain-containing protein 1. [Source:Uniprot/SWISSPROT;Acc:Q8N9V3]	15.499	-14.32	0.00018911	172	9	4	39 [+]
WEE1	Wee1-like protein kinase (EC 2.7.10.2) (Wee1A kinase) (WEE1hu). [Source:Uniprot/SWISSPROT;Acc:P30291]	15.569	-16.92	7.65E-06	1000	25	8	47 [+]
WHDC1	WAS protein homology region 2 domain containing 1 [Source:RefSeq_peptide;Acc:NP_001073904]	15.448	-12.68	3.62E-05	1323	17	4	22 [+]
WHSC2	Negative elongation factor A (NELF-A) (Wolf-Hirschhorn syndrome candidate 2 protein). [Source:Uniprot/SWISSPROT;Acc:Q9H3P2]	17.951	-16.95	0.00032169	596	26	5	55 [+]

WHSC2	Negative elongation factor A (NELF-A) (Wolf-Hirschhorn syndrome candidate 2 protein). [Source:Uniprot/SWISSPROT;Acc:Q9H3P2]		19.346	-16.95	0.0022582	300	17	1	58 [+]
WIF1	Wnt inhibitory factor 1 precursor (WIF-1). [Source:Uniprot/SWISSPROT;Acc:Q9Y5W5]		16.805	-21.39	2.06E-05	722	26	7	48 [+]
WTAP	Wilms' tumor 1-associating protein (WT1-associated protein) (Putative pre-mRNA-splicing regulator female-lethal(2D) homolog). [Source:Uniprot/SWISSPROT;Acc:Q15007]		16.362	-11.04	0.00223745	708	22	7	35 [+]
XKR3	XK-related protein 3 (XTES). [Source:Uniprot/SWISSPROT;Acc:Q5GH77]		16.97	-10.62	0.0214202	187	8	1	22 [+]
XKR9	XK-related protein 9. [Source:Uniprot/SWISSPROT;Acc:Q5GH70]		15.631	-15.83	0.00026707	1517	8	3	11 [+]
XPO5	Exportin-5 (Exp5) (Ran-binding protein 21). [Source:Uniprot/SWISSPROT;Acc:Q9HAV4]		16.827	-21.49	0.0244905	1000	10	1	11 [+]
XR_015868.1	Similar to ring finger protein 18 (LOC732387), mRNA [Source:RefSeq_dna;Acc:XR_015868]		16.195	-16.75	0.00275965	798	15	1	20 [+]
XR_016028.1	NOT ANNOTATED		17.875	-13.4	0.00911416	211	10	2	37 [+]

XR_017847.1	CDNA FLJ35816 fis, clone TESTI2006109. [Source:Uniprot/SPTREMBL;Acc:Q8NA59]		16.538	-19.49	0.0316001	1367	6	1	6 [+]
XR_017859.1	tMDC II (TMDCII), misc RNA [Source:RefSeq_dna;Acc:XR_017859]		16.912	-12.68	0.0226149	348	16	1	28 [+]
XR_017872.1	CDNA FLJ42102 fis, clone TESOP2006746. [Source:Uniprot/SPTREMBL;Acc:Q6ZVU0]		16.039	-11.18	0.049827	501	20	1	45 [+]
YIPF4	Protein YIPF4 (YIP1 family member 4). [Source:Uniprot/SWISSPROT;Acc:Q9BSR8]		15.766	-10.82	0.0325111	960	16	6	27 [+]
YIPF7	Yip1 domain family, member 7 (YIPF7), mRNA [Source:RefSeq_dna;Acc:NM_182592]		15.685	-17.44	0.00065582	1000	18	2	22 [+]
YN001_HUMAN	Putative uncharacterized protein CS0DJ013YG01. [Source:Uniprot/SWISSPROT;Acc:Q86SZ3]		17.823	-18.18	0.00957263	1000	15	2	17 [+]
YN002_HUMAN	Putative uncharacterized protein CS0DE013YM09 homolog. [Source:Uniprot/SWISSPROT;Acc:Q86TS7]		15.633	-10.55	0.0200474	1237	10	4	14 [+]
YN003_HUMAN	Uncharacterized protein FLJ30638. [Source:Uniprot/SWISSPROT;Acc:Q96DQ3]		17.026	-16.19	0.01743	1000	13	2	14 [+]
YPEL1	Protein yippee-like 1. [Source:Uniprot/SWISSPROT;Acc:O60688]		16.404	-10.61	0.00406873	263	15	4	49 [+]

YV008_HUMAN	Putative uncharacterized protein FLJ32756. [Source:Uniprot/SWISSPROT;Acc:Q96M85]		16.06	-19.88	0.00298652	1000	10	1	10 [+]
ZBP1	Z-DNA-binding protein 1 (Tumor stroma and activated macrophage protein DLM-1). [Source:Uniprot/SWISSPROT;Acc:Q9H171]		16.896	-18.7	0.0229573	723	15	1	28 [+]
ZBP1	Z-DNA-binding protein 1 (Tumor stroma and activated macrophage protein DLM-1). [Source:Uniprot/SWISSPROT;Acc:Q9H171]		16.886	-18.7	0.0231822	727	15	1	28 [+]
ZBTB17	Zinc finger and BTB domain-containing protein 17 (Zinc finger protein 151) (Myc-interacting zinc finger protein) (Miz-1 protein). [Source:Uniprot/SWISSPROT;Acc:Q13105]		17.922	-21.09	0.00871561	458	19	1	42 [+]
ZF36_HUMAN	Zinc finger protein ZFP-36 (Fragment). [Source:Uniprot/SWISSPROT;Acc:P16415]		15.742	-12.38	0.0199973	435	18	3	41 [+]
ZFAND6	AN1-type zinc finger protein 6 (Zinc finger A20 domain-containing protein 3) (Associated with PRK1 protein). [Source:Uniprot/SWISSPROT;Acc:Q6FIF0]		15.685	-10.39	0.0133252	742	23	7	36 [+]

ZFYVE26	Zinc finger, FYVE domain containing 26 [Source:RefSeq_peptide;Acc:NP_056161]+B1058	15.645	-20.85	0.00890648	1915	12	4	15 [+]
ZIC2	Zinc finger protein ZIC 2 (Zinc finger protein of the cerebellum 2). [Source:Uniprot/SWISSPROT;Acc:O95409]	15.418	-19.94	0.00631673	1082	14	7	19 [+]
ZKSCAN3	Zinc finger protein 306 (Zinc finger protein 47 homolog) (Zfp-47) (Zf47) (Zinc finger and SCAN domain-containing protein 13). [Source:Uniprot/SWISSPROT;Acc:Q9BRR0]	15.967	-8.27	0.00013653	461	22	1	36 [+]
ZMYM2	MYM-type zinc finger protein 2 (Zinc finger protein 198) (Fused in myeloproliferative disorders protein) (Rearranged in atypical myeloproliferative disorder protein). [Source:Uniprot/SWISSPROT;Acc:Q9UBW7]	17.196	-12.42	0.0171604	279	15	1	42 [+]
ZMYM6	Zinc finger MYM-type protein 6 (Zinc finger protein 258). [Source:Uniprot/SWISSPROT;Acc:O95789]	16.232	-15.67	0.042743	742	15	1	30 [+]
ZNF117	zinc finger protein 117 [Source:RefSeq_peptide;Acc:NP_056936]	15.632	-16.34	0.00367928	1000	12	2	6 [+]
ZNF121	Zinc finger protein 121 (Zinc finger protein 20) (Fragment). [Source:Uniprot/SWISSPROT;Acc:P58317]	16.178	-10.88	0.0034231	276	10	3	22 [+]

ZNF124	Zinc finger protein 124 (HZF-16). [Source:Uniprot/SWISSPROT;Acc:Q15973]		15.568	-12.77	0.00419045	677	9	1	11 [+]
ZNF124	Zinc finger protein 124 (HZF-16). [Source:Uniprot/SWISSPROT;Acc:Q15973]		16.97	-12.77	0.0214202	146	6	2	20 [+]
ZNF17	Zinc finger protein 17 (Zinc finger protein KOX10) (HPF3). [Source:Uniprot/SWISSPROT;Acc:P17021]		15.542	-16.59	9.49E-07	1060	11	3	12 [+]
ZNF204	NOT ANNOTATED		15.373	-11.55	0.00209671	913	10	2	11 [+]
ZNF207	Zinc finger protein 207. [Source:Uniprot/SWISSPROT;Acc:O43670]		16.124	-16.44	0.0187714	692	19	10	37 [+]
ZNF207	Zinc finger protein 207. [Source:Uniprot/SWISSPROT;Acc:O43670]		16.439	-16.44	0.0352468	575	14	1	18 [+]
ZNF212	Zinc finger protein 212 (Zinc finger protein C2H2-150). [Source:Uniprot/SWISSPROT;Acc:Q9UDV6]		16.261	-21.05	0.0136693	1180	15	4	19 [+]
ZNF253	Zinc finger protein 93 (Zinc finger protein 505) (Zinc finger protein HTF34). [Source:Uniprot/SWISSPROT;Acc:P35789]		16.163	-14.43	0.0455601	934	11	1	11 [+]
ZNF274	Zinc finger protein 274 (Zinc finger protein HFB101) (Zinc finger protein zfp2) (Zf2). [Source:Uniprot/SWISSPROT;Acc:Q96GC6]		16.465	-12.12	0.0136959	418	17	3	43 [+]

ZNF277P	Zinc finger protein 277. [Source:Uniprot/SWISSPROT;Acc:Q9NRM2]		16.404	-11.45	0.0105032	300	15	4	54 [+]
ZNF29_HUMAN	Zinc finger protein 29 (Zinc finger protein KOX26) (Fragment). [Source:Uniprot/SWISSPROT;Acc:P17037]		15.402	-13.16	0.00858653	1000	20	1	27 [+]
ZNF291	Zinc finger protein 291. [Source:Uniprot/SWISSPROT;Acc:Q9BY12]		17.041	-15.97	0.00057376	436	21	8	48 [+]
ZNF329	Zinc finger protein 329 [Source:RefSeq_peptide;Acc:NP_078896]		15.988	-14.25	0.0201202	823	24	4	32 [+]
ZNF403	Protein ZNF403 (Laryngeal carcinoma-related protein 1). [Source:Uniprot/SWISSPROT;Acc:Q9H3C7]		15.75	-11.42	0.00360078	433	23	10	56 [+]
ZNF418	Zinc finger protein 418. [Source:Uniprot/SWISSPROT;Acc:Q8TF45]		17.353	-19.53	0.0149254	522	22	2	40 [+]
ZNF419	Zinc finger protein 419A. [Source:Uniprot/SWISSPROT;Acc:Q96HQ0]		15.533	-13.73	0.0031395	1000	11	1	10 [+]
ZNF419	Zinc finger protein 419A. [Source:Uniprot/SWISSPROT;Acc:Q96HQ0]		16.451	-13.73	0.0348506	571	17	1	28 [+]
ZNF419	Zinc finger protein 419A. [Source:Uniprot/SWISSPROT;Acc:Q96HQ0]		16.394	-13.73	0.0367418	590	16	3	25 [+]
ZNF443	Zinc finger protein 443 (Krueppel-type zinc finger protein ZK1). [Source:Uniprot/SWISSPROT;Acc:Q9Y2A4]		16.013	-12.94	0.0186164	449	21	2	51 [+]

ZNF454	Zinc finger protein 454. [Source:Uniprot/SWISSPROT;Acc:Q8N9F8]		16.079	-9.86	0.00691404	460	19	3	57 [+]
ZNF479	Zinc finger protein 479 (Zinc finger protein Kr19) (HKr19). [Source:Uniprot/SWISSPROT;Acc:Q96JC4]		16.404	-10.42	0.036402	219	9	1	13 [+]
ZNF487	Zinc finger protein 487 (Fragment). [Source:Uniprot/SPTREMBL;Acc:Q5T1H0]		16.031	-14.87	1.00E-06	1000	14	3	10 [+]
ZNF521	Zinc finger protein 521 [Source:RefSeq_peptide;Acc:NP_056276]		16.781	-17.84	0.00242658	785	26	6	36 [+]
ZNF530	Zinc finger protein 530 [Source:RefSeq_peptide;Acc:NP_065931]		15.891	-12.37	0.00414472	719	16	3	24 [+]
ZNF558	Zinc finger protein 558. [Source:Uniprot/SWISSPROT;Acc:Q96NG5]		16.408	-18	0.0356237	1575	7	3	7 [+]
ZNF56	Zinc finger protein 56 (Fragment). [Source:Uniprot/SPTREMBL;Acc:Q15929]		16.079	-15	0.00338859	1000	11	1	8 [+]
ZNF565	Zinc finger protein 565. [Source:Uniprot/SWISSPROT;Acc:Q8N9K5]		16.63	-11.93	0.00450714	172	9	3	24 [+]
ZNF571	Zinc finger protein 571. [Source:Uniprot/SWISSPROT;Acc:Q7Z3V5]		15.435	-11.95	0.0106676	2164	4	3	5 [+]
ZNF586	Zinc finger protein 586. [Source:Uniprot/SWISSPROT;Acc:Q9NXT0]		15.467	-22.23	0.00012694	1267	9	2	6 [+]

ZNF594	CDNA FLJ16209 fis, clone CTONG2020378, moderately similar to ZINC FINGER PROTEIN 35. [Source:Uniprot/SPTREMBL;Acc:Q6ZNC6]		16.047	-14.12	0.00217307	1000	5	1	6 [+]
ZNF608	Zinc finger protein 608 (Renal carcinoma antigen NY-REN-36). [Source:Uniprot/SWISSPROT;Acc:Q9ULD9]		15.406	-12.68	0.00084519	983	18	7	35 [+]
ZNF613	Zinc finger protein 613. [Source:Uniprot/SWISSPROT;Acc:Q6PF04]		15.832	-14.11	0.00183961	1000	12	3	14 [+]
ZNF699	Zinc finger protein 699 (Hangover homolog). [Source:Uniprot/SWISSPROT;Acc:Q32M78]		15.354	-13.85	0.00143978	1200	11	2	13 [+]
ZNF700	Zinc finger protein 700. [Source:Uniprot/SWISSPROT;Acc:Q9H0M5]		15.799	-10.73	0.00397563	509	18	2	29 [+]
ZNF750	Protein ZNF750. [Source:Uniprot/SWISSPROT;Acc:Q32MQ0]		16.269	-15.01	0.0412837	707	19	4	33 [+]
ZNF799	Zinc finger protein 799. [Source:Uniprot/SWISSPROT;Acc:Q96GE5]		16.013	-12.94	0.0188969	449	22	2	51 [+]
ZNF83	Zinc finger protein 83 (Zinc finger protein HPF1). [Source:Uniprot/SWISSPROT;Acc:P51522]		16.057	-12.63	4.70E-05	636	23	3	28 [+]

ZNF83	Zinc finger protein 83 (Zinc finger protein HPF1). [Source:Uniprot/SWISSPROT;Acc:P51522]		15.355	-12.63	0.00013579	1000	12	1	12 [+]
ZRSR1	U2 small nuclear ribonucleoprotein auxiliary factor 35 kDa subunit-related protein 2 (U2(RNU2) small nuclear RNA auxiliary factor 1-like 2) (CCCH type zinc finger, RNA-binding motif and serine/arginine rich protein 2) (Renal carcinoma antigen NY-REN-20). [Source:Uniprot/SWISSPROT;Acc:Q15696]		16.857	-14.69	0.0238243	276	13	1	38 [+]
ZSWIM2	Zinc finger SWIM domain-containing protein 2 (Zinc finger ZZ-type-containing protein 2). [Source:Uniprot/SWISSPROT;Acc:Q8NEG5]		17.383	-14.93	0.00520399	504	17	6	34 [+]
ZZZ3	Zinc finger, ZZ domain containing 3 [Source:RefSeq_peptide;Acc:NP_056349]		17.319	-20.8	0.015417	752	17	1	19 [+]
ZZZ3	Zinc finger, ZZ domain containing 3 [Source:RefSeq_peptide;Acc:NP_056349]		16.611	-20.8	0.0216181	1140	17	5	17 [+]

28 kDa heat- and acid-stable phosphoprotein (PDGF-associated protein) (PAP) (PDGFA-associated protein 1) (PAP1). [Source:Uniprot/SWISSPROT;Acc:Q13442]28 kDa heat- and acid-stable phosphoprotein (PDGF-associated protein) (PAP) (PDGFA-associated protein 1) (PAP1). [Source:Uniprot/SWISSPROT;Acc:Q13442] BY ORTHOLOGY TO:ENSBTAT00000037136	15.718	-12.08	8.77E-05	1000	26	7	37 [+]
NOT ANNOTATED	15.545	-16.86	0.0003126	1000	22	3	21 [+]
NOT ANNOTATED	16.662	-15.22	0.00211158	1000	12	2	11 [+]
NOT ANNOTATED	16.628	-15.49	0.00216782	1000	10	1	10 [+]
NOT ANNOTATED	16.628	-15.49	0.00223553	1000	9	1	9 [+]
NOT ANNOTATED	16.628	-15.49	0.00223553	1000	8	2	8 [+]
NOT ANNOTATED	15.651	-19.63	0.00303707	1000	15	2	19 [+]
NOT ANNOTATED	15.799	-13.96	0.00323439	1000	11	1	17 [+]
NOT ANNOTATED	18.44	-19.99	0.00533222	140	8	2	22 [+]
Homolog of Brachydanio rerio "Ion channel NompC." [Source:Uniprot/SPTREMBL;Acc:Q7T1G6]"Homolog of Brachydanio rerio "Ion channel NompC." [Source:Uniprot/SPTREMBL;Acc:Q7T1G6]" BY ORTHOLOGY TO:SINFRUT00000151246	15.469	-12.51	0.00724804	1000	19	3	20 [+]
NOT ANNOTATED	18.06	-14.16	0.00764873	1000	11	1	11 [+]
NOT ANNOTATED	15.832	-14.29	0.0111116	1000	11	2	13 [+]
NOT ANNOTATED	17.309	-14.48	0.0155574	1000	7	1	12 [+]
NOT ANNOTATED	16.103	-18.68	0.0195991	1000	24	2	28 [+]
NOT ANNOTATED	16.827	-20.15	0.0244905	1000	17	2	21 [+]

	NOT ANNOTATED		16.827	-16.94	0.0244905	1000	11	1	10 [+]
	NOT ANNOTATED		15.725	-15.79	0.0351617	140	7	3	23 [+]
	NOT ANNOTATED		16.429	-23.3	0.0355658	1000	13	2	16 [+]
	NOT ANNOTATED		16.324	-18.14	0.0392439	1000	13	1	14 [+]
	NOT ANNOTATED		16.143	-16.85	0.0464127	1000	9	1	12 [+]

Supplementary Table 13. Predicted targets of hsa-miR-181a-3p by miRanda-mirSVR.

Gene symbol	Full name	Cancer gene
AACS	Acetoacetyl-CoA synthetase	
AAK1	AP2 associated kinase 1	
AASDHPPT	Aminoadipate-semialdehyde dehydrogenase-phosphopantetheinyl transferase	
AATF	Apoptosis antagonizing transcription factor	
ABCA11P	ATP-binding cassette, sub-family A (ABC1), member 11, pseudogene	
ABCA13	ATP-binding cassette, sub-family A (ABC1), member 13	
ABCB5	ATP-binding cassette, sub-family B (MDR/TAP), member 5	
ABCB8	ATP-binding cassette, sub-family B (MDR/TAP), member 8	
ABCC5	ATP-binding cassette, sub-family C (CFTR/MRP), member 5	
ABCC9	ATP-binding cassette, sub-family C (CFTR/MRP), member 9	
ABCD1	ATP-binding cassette, sub-family D (ALD), member 1	
ABCF2	ATP-binding cassette, sub-family F (GCN20), member 2	
ABHD2	Abhydrolase domain containing 2	
ABHD5	Abhydrolase domain containing 5	
ABI2	Abl-interactor 2	√
ACACB	Acetyl-CoA carboxylase beta	
ACAP2	ArfGAP with coiled-coil, ankyrin repeat and PH domains 2	
ACBD3	Acyl-CoA binding domain containing 3	
ACCN1	Acid-sensing (proton-gated) ion channel 2	
ACE	Angiotensin I converting enzyme	
ACER2	Alkaline ceramidase 2	
ACIN1	Apoptotic chromatin condensation inducer 1	
ACTR3	ARP3 actin-related protein 3 homolog (yeast)	
ACTR3B	ARP3 actin-related protein 3 homolog B (yeast)	
ACY3	Aspartoacylase (aminocyclase) 3	
ADAM10	ADAM metallopeptidase domain 10	
ADAM15	ADAM metallopeptidase domain 15	
ADAM19	ADAM metallopeptidase domain 19	

ADAM5P	ADAM metallopeptidase domain 5, pseudogene	
ADAM9	ADAM metallopeptidase domain 9	
ADAMTS13	ADAM metallopeptidase with thrombospondin type 1 motif, 13	
ADAMTS3	ADAM metallopeptidase with thrombospondin type 1 motif, 3	
ADARB1	Adenosine deaminase, RNA-specific, B1	
ADAT2	Adenosine deaminase, tRNA-specific 2	
ADC	Arginine decarboxylase	
ADCYAP1	Adenylate cyclase activating polypeptide 1 (pituitary)	
ADD1	Adducin 1 (alpha)	
ADIPOR2	Adiponectin receptor 2	
ADM2	Adrenomedullin 2	
ADNP2	ADNP homeobox 2	
ADRA2B	Adrenoceptor alpha 2B	
ADRBK2	Adrenergic, beta, receptor kinase 2	
AES	Amino-terminal enhancer of split	
AFAP1	Actin filament associated protein 1	
AFARP1	Aldo-keto reductase family 7, member A2 pseudogene 1	
AFF2	AF4/FMR2 family, member 2	
AFG3L1	AFG3-like AAA ATPase 1, pseudogene	
AFMID	Arylformamidase	
AG2	Anterior gradient 2	
AGBL5	ATP/GTP binding protein-like 5	
AGK	Acylglycerol kinase	
AGPAT2	1-Acylglycerol-3-phosphate O-acyltransferase 2	
AGPAT3	1-Acylglycerol-3-phosphate O-acyltransferase 3	
AGPAT4	1-Acylglycerol-3-phosphate O-acyltransferase 4	
AGPAT6	1-Acylglycerol-3-phosphate O-acyltransferase 6	
AHR	Aryl hydrocarbon receptor	
AHRR	Aryl-hydrocarbon receptor repressor	
AIRE	Autoimmune regulator	
AK3L1	Adenylate kinase 3-like 1	

AKAP7	A kinase (PRKA) anchor protein 7	
AKNA	AT-hook transcription factor	
AKR1D1	Aldo-keto reductase family 1, member D1	
ALDH18A1	Aldehyde dehydrogenase 18 family, member A1	
ALDH6A1	Aldehyde dehydrogenase 6 family, member A1	
ALG6	ALG6, alpha-1,3-glucosyltransferase	
AMOT	Angiomotin	
AMOTL1	Angiomotin like 1	
AMPD3	Adenosine monophosphate deaminase 3	
AMT	Aminomethyltransferase	
AMTN	Amelotin	
AMY2B	Amylase, alpha 2B (pancreatic)	
ANAPC11	Anaphase promoting complex subunit 11	
ANAPC2	Anaphase promoting complex subunit 2	
ANAPC7	Anaphase promoting complex subunit 7	
ANK2	Ankyrin 2, neuronal	
ANKH	ANKH inorganic pyrophosphate transport regulator	
ANKRD13B	Ankyrin repeat domain 13B	
ANKRD22	Ankyrin repeat domain 22	
ANKRD27	Ankyrin repeat domain 27 (VPS9 domain)	
ANKRD36	Ankyrin repeat domain 36	
ANKRD36B	Ankyrin repeat domain 36B	
ANKRD44	Ankyrin repeat domain 44	
ANKRD54	Ankyrin repeat domain 54	
ANKRD58	Sosondowah ankyrin repeat domain family member D	
ANKS1A	Ankyrin repeat and sterile alpha motif domain containing 1A	
ANKS6	Ankyrin repeat and sterile alpha motif domain containing 6	
ANO1	Anoctamin 1, calcium activated chloride channel	
ANO4	Anoctamin 4	
ANP32E	Acidic (leucine-rich) nuclear phosphoprotein 32 family, member E	
ANPEP	Alanine (membrane) aminopeptidase	

ANXA3	Annexin A3	
AP1S1	Adaptor-related protein complex 1, sigma 1 subunit	
AP1S3	Adaptor-related protein complex 1, sigma 3 subunit	
AP4M1	Adaptor-related protein complex 4, mu 1 subunit	
APBB2	Amyloid beta (A4) precursor protein-binding, family B, member 2	
APC2	Adenomatosis polyposis coli 2	
APH1B	APH1B gamma secretase subunit	
APLNR	Apelin receptor	
APOBEC3B	Apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3B	
APOL2	Apolipoprotein L, 2	
APOL6	Apolipoprotein L, 6	
APP	Amyloid beta (A4) precursor protein	
APPBP2	Amyloid beta precursor protein (cytoplasmic tail) binding protein 2	
AQP12B	Aquaporin 12B	
AQP9	Aquaporin 9	
ARF4	ADP-ribosylation factor 4	
ARFGAP2	ADP-ribosylation factor GTPase activating protein 2	
ARHGAP20	Rho GTPase activating protein 20	
ARHGAP26	Rho GTPase activating protein 26	
ARHGDI1A	Rho GDP dissociation inhibitor (GDI) alpha	
ARHGEF10	Rho guanine nucleotide exchange factor (GEF) 10	
ARHGEF33	Rho guanine nucleotide exchange factor (GEF) 33	
ARL2BP	ADP-ribosylation factor-like 2 binding protein	
ARL4A	ADP-ribosylation factor-like 4A	
ARMC7	Armadillo repeat containing 7	
ARMCX4	Armadillo repeat containing, X-linked 4	
ARNTL	Aryl hydrocarbon receptor nuclear translocator-like	
ARPC1A	Actin related protein 2/3 complex, subunit 1A, 41kDa	
ARSD	Arylsulfatase D	
ARSK	Arylsulfatase family, member K	
ASB1	Ankyrin repeat and SOCS box containing 1	

ATAD5	ATPase family, AAA domain containing 5	
ATCAY	Ataxia, cerebellar, Cayman type	
ATG16L1	Autophagy related 16-like 1 (<i>S. cerevisiae</i>)	
ATG16L2	Autophagy related 16-like 2 (<i>S. cerevisiae</i>)	
ATG2A	Autophagy related 2A	
ATG7	Autophagy related 7	
ATM	ATM serine/threonine kinase	√
ATP10B	ATPase, class V, type 10B	
ATP11A	ATPase, class VI, type 11A	
ATP13A4	ATPase type 13A4	
ATP4A	ATPase, H ⁺ /K ⁺ exchanging, alpha polypeptide	
ATP5G3	ATP synthase, H ⁺ transporting, mitochondrial Fo complex, subunit C3 (subunit 9)	
ATP6V0A2	ATPase, H ⁺ transporting, lysosomal V0 subunit a2	
ATP6V1C2	ATPase, H ⁺ transporting, lysosomal 42 kDa, V1 subunit C2	
ATP8A2	ATPase, aminophospholipid transporter, class I, type 8A, member 2	
ATP9B	ATPase, class II, type 9B	
ATR	ATR serine/threonine kinase	
ATXN3	Ataxin 3	
AXIN1	Axin 1	√
B3GALT6	UDP-Gal:betaGal beta 1,3-galactosyltransferase polypeptide 6	
B3GNTL1	UDP-GlcNAc:betaGal beta-1,3- <i>N</i> -acetylglucosaminyltransferase-like 1	
B4GALT1	UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 1	
B4GALT5	UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 5	
BACE2	Beta-site APP-cleaving enzyme 2	
BAIAP2	BAI1-associated protein 2	
BANP	BTG3 associated nuclear protein	
BASE	BPI fold containing family A, member 4	
BAT2	Proline-rich coiled-coil 2A	
BAT2L1	Proline-rich coiled-coil 2B	
BCKDK	branched chain ketoacid dehydrogenase kinase	
BCL11A	B-cell CLL/lymphoma 11A (zinc finger protein)	√

BCL2	B-cell CLL/lymphoma 2	√
BDH1	3-Hydroxybutyrate dehydrogenase, type 1	
BDKRB2	Bradykinin receptor B2	
BEND2	BEN domain containing 2	
BEND3	BEN domain containing 3	
BEND7	BEN domain containing 7	
BGN	Biglycan	
BMP1	Bone morphogenetic protein 1	
BMP7	Bone morphogenetic protein 7	
BPESC1	Blepharophimosis, epicanthus inversus and ptosis, candidate 1 (non-protein coding)	
BRD2	Bromodomain containing 2	
BRPF3	bromodomain and PHD finger containing, 3	
BTBD7	BTB (POZ) domain containing 7	
BTBD9	BTB (POZ) domain containing 9	
BTG1	B-cell translocation gene 1, anti-proliferative	√
BTG1	B-cell translocation gene 1, anti-proliferative	
C10orf26	WW domain binding protein 1-like	
C10orf4	Fragile site, folic acid type, rare, fra(10)(q23.3) or fra(10)(q24.2) candidate 1	
C10orf41	ZNF503 antisense RNA 2	
C10orf44	ZNF32 antisense RNA 3	
C10orf54	Chromosome 10 open reading frame 54	
C10orf72	V-set and transmembrane domain containing 4	
C11orf20	Testis expressed 40	
C11orf57	Chromosome 11 open reading frame 57	
C12orf23	Transmembrane protein 263	
C12orf49	Chromosome 12 open reading frame 49	
C12orf5	Chromosome 12 open reading frame 5	
C12orf61	Long intergenic non-protein coding RNA 1465	
C12orf74	Chromosome 12 open reading frame 74	
C12orf75	Chromosome 12 open reading frame 75	
C14orf166B	Chromosome 15 open reading frame, human C14orf166B	

C14orf25	Tetratricopeptide repeat domain 6	
C14orf28	Chromosome 14 open reading frame 28	
C14orf79	Chromosome 14 open reading frame 79	
C15orf17	Family with sequence similarity 219, member B	
C15orf37	Chromosome 15 open reading frame 37	
C15orf42	TOPBP1-interacting checkpoint and replication regulator	
C15orf62	Chromosome 15 open reading frame 62	
C16orf52	Chromosome 16 open reading frame 52	
C16orf55	Spermatogenesis associated 33	
C16orf57	U6 snRNA biogenesis 1	
C16orf61	Chromosome 11 open reading frame, human C16orf61	
C16orf63	FGFR1OP N-terminal like	
C16orf81	Long intergenic non-protein coding RNA 304	
C16orf82	Chromosome 16 open reading frame 82	
C16orf86	Chromosome 16 open reading frame 86	
C16orf92	Chromosome 16 open reading frame 92	
C17orf100	Chromosome 17 open reading frame 100	
C17orf103	N-acetyltransferase domain containing 1	
C17orf107	Chromosome 17 open reading frame 107	
C17orf48	Chromosome 18 open reading frame, human C17orf48	
C17orf51	Chromosome 17 open reading frame 51	
C17orf56	ENTH domain containing 2	
C17orf68	CTS telomere maintenance complex component 1	
C17orf86	SEC14-like 1 (<i>S. cerevisiae</i>)	
C17orf96	Chromosome 17 open reading frame 96	
C18orf8	Chromosome 18 open reading frame 8	
C19orf12	Chromosome 19 open reading frame 12	
C19orf36	IZUMO family member 4	
C19orf62	BRISC and BRCA1 A complex member 1	
C19orf75	SIGLEC family like 1	
C1orf167	Chromosome 1 open reading frame 167	

C1orf187	Chromosome 21 open reading frame, human C1orf187	
C1orf200	Chromosome 1 open reading frame 200	
C1orf201	Sperm-tail PG-rich repeat containing 1	
C1orf213	Chromosome 1 open reading frame 213	
C1orf64	Chromosome 1 open reading frame 64	
C1orf69	IBA57, iron-sulfur cluster assembly homolog (<i>S. cerevisiae</i>)	
C1orf81	Maestro heat-like repeat family member 3, pseudogene	
C1orf89	REM2 and RAB-like small GTPase 1	
C1orf96	Chromosome 3 open reading frame, human C1orf96	
C20orf160	Chromosome 20 open reading frame, human C20orf160	
C20orf197	Chromosome 20 open reading frame 197	
C20orf199	ZNFX1 antisense RNA 1	
C20orf3	Adipocyte plasma membrane associated protein	
C21orf105	Endogenous retrovirus group 48, member 1	
C21orf105	Endogenous retrovirus group 48, member 1	
C21orf58	Chromosome 21 open reading frame 58	
C21orf90	Chromosome 21 open reading frame 90	
C21orf99	Ankyrin repeat domain 30B pseudogene 2	
C22orf26	Proline rich 34	
C22orf29	Chromosome 22 open reading frame 29	
C22orf30	Proline rich 14-like	
C22orf9	Chromosome 22 open reading frame 9	
C3orf19	Coiled-coil domain containing 174	
C3orf42	Long intergenic non-protein coding RNA 852	
C3orf67	Chromosome 3 open reading frame 67	
C4orf12	WDFY3 antisense RNA 2	
C5orf35	SET domain containing 9	
C5orf41	CREB3 regulatory factor	
C6orf168	Chromosome 3 open reading frame, human C6orf168	
C6orf192	Chromosome 3 open reading frame, human C6orf192	
C6orf208	Long intergenic non-protein coding RNA 574	

C6orf225	Chromosome 6 open reading frame 225 homolog	
C6orf35	Chromosome 6 open reading frame 35	
C6orf41	Chromosome 6 open reading frame 41	
C7orf41	Maturin, neural progenitor differentiation regulator homolog (Xenopus)	
C7orf58	Cadherin-like and PC-esterase domain containing 1	
C7orf65	Chromosome 7 open reading frame 65	
C8orf38	NADH dehydrogenase (ubiquinone) complex I, assembly factor 6	
C8orf40	Small integral membrane protein 19	
C8orf49	Chromosome 8 open reading frame 49	
C8orf68	ERICH1 antisense RNA 1	
C9orf109	Family with sequence similarity 225, member A (non-protein coding)	
C9orf110	Chromosome 9 open reading frame 110	
C9orf114	Chromosome 9 open reading frame 114	
C9orf140	Chromosome 17 open reading frame, human C9orf140	
C9orf144	Family with sequence similarity 205, member B	
C9orf150	Chromosome Z open reading frame, human C9orf150	
C9orf153	Chromosome 9 open reading frame 153	
C9orf6	Chromosome 9 open reading frame 6	
C9orf80	INTS3 and NABP interacting protein	
C9orf86	RAB, member RAS oncogene family-like 6	
C9orf96	Serine/threonine kinase-like domain containing 1	
CA12	Carbonic anhydrase XII	
CA3	Carbonic anhydrase III, muscle specific	
CA4	Carbonic anhydrase IV	
CABC1	Chaperone, ABC1 activity of bc1 complex like (<i>S. pombe</i>)	
CABP7	Calcium binding protein 7	
CACNA1A	Calcium channel, voltage-dependent, P/Q type, alpha 1A subunit	
CACNA1B	Calcium channel, voltage-dependent, N type, alpha 1B subunit	
CACNA1C	Calcium channel, voltage-dependent, L type, alpha 1C subunit	
CACNA1D	Calcium channel, voltage-dependent, L type, alpha 1D subunit	√
CACNA2D3	Calcium channel, voltage-dependent, alpha 2/delta subunit 3	

CACNB2	Calcium channel, voltage-dependent, beta 2 subunit	
CALB2	Calbindin 2	
CALM1	Calmodulin 1 (phosphorylase kinase, delta)	
CALN1	Calneuron 1	
CAPN14	Calpain 14	
CARKD	Carbohydrate kinase domain containing	
CASK	Calcium/calmodulin-dependent serine protein kinase (MAGUK family)	
CASP8	Caspase 8, apoptosis-related cysteine peptidase	√
CASZ1	Castor zinc finger 1	
CAV1	Caveolin 1, caveolae protein, 22kDa	
CBX7	Chromobox homolog 7	
CC2D1B	Coiled-coil and C2 domain containing 1B	
CCDC137	Coiled-coil domain containing 137	
CCDC144B	Coiled-coil domain containing 144B (pseudogene)	
CCDC144C	Coiled-coil domain containing 144C, pseudogene	
CCDC152	Coiled-coil domain containing 152	
CCDC22	Coiled-coil domain containing 22	
CCDC62	Coiled-coil domain containing 62	
CCDC7	Coiled-coil domain containing 7	
CCDC78	Coiled-coil domain containing 78	
CCDC88B	Coiled-coil domain containing 88B	
CCKBR	Cholecystokinin B receptor	
CCND2	Cyclin D2	
CCNL2	Cyclin L2	
CCS	Copper chaperone for superoxide dismutase	
CD34	CD34 molecule	
CD69	CD69 molecule	
CD93	CD93 molecule	
CD99L2	CD99 molecule-like 2	
CDC14B	Cell division cycle 14B	
CDC14C	Cell division cycle 14C	

CDH1	Cadherin 1, type 1, E-cadherin (epithelial)	√
CDK12	Cyclin-dependent kinase 12	√
CDK19	Cyclin-dependent kinase 19	
CDK5RAP2	CDK5 regulatory subunit associated protein 2	
CDK9	Cyclin-dependent kinase 9	
CDKN2B	Cyclin-dependent kinase inhibitor 2B (p15, inhibits CDK4)	
CEBPA	CCAAT/enhancer binding protein (C/EBP), alpha	√
CELF1	CUGBP, Elav-like family member 1	
CELF2	CUGBP, Elav-like family member 2	
CENPO	Centromere protein O	
CENPT	Centromere protein T	
CEP192	Centrosomal protein 192kDa	
CEP250	Centrosomal protein 250kDa	
CEP63	Centrosomal protein 63kDa	
CES3	Carboxylesterase 3	
CES4	Carboxylesterase 4	
CFL2	Cofilin 2 (muscle)	
CFLAR	CASP8 and FADD-like apoptosis regulator	
CHCHD7	Coiled-coil-helix-coiled-coil-helix domain containing 7	√
CHD1L	Chromodomain helicase DNA binding protein 1-like	
CHD5	Chromodomain helicase DNA binding protein 5	
CHMP4B	Charged multivesicular body protein 4B	
CHST10	Carbohydrate sulfotransferase 10	
CHST13	Carbohydrate (chondroitin 4) sulfotransferase 13	
CHST3	Carbohydrate (chondroitin 6) sulfotransferase 3	
CILP2	Cartilage intermediate layer protein 2	
CKMT1B	Creatine kinase, mitochondrial 1B	
CLCNKA	Chloride channel, voltage-sensitive Ka	
CLCNKB	Chloride channel, voltage-sensitive Kb	
CLDN12	Claudin 12	
CLEC2D	C-type lectin domain family 2, member D	

CLK3	CDC-like kinase 3	
CLRN1OS	CLRN1 antisense RNA 1	
CMAS	Cytidine monophosphate N-acetylneuraminic acid synthetase	
CMKLR1	Chemokine-like receptor 1	
CMTM4	CKLF-like MARVEL transmembrane domain containing 4	
CNNM3	Cyclin and CBS domain divalent metal cation transport mediator 3	
CNPY1	Canopy FGF signaling regulator 1	
CNTNAP1	Contactin associated protein 1	
CNTNAP3B	Contactin associated protein-like 3B	
COG3	Component of oligomeric golgi complex 3	
COG6	Component of oligomeric golgi complex 6	
COL24A1	Collagen, type XXIV, alpha 1	
COL27A1	Collagen, type XXVII, alpha 1	
COL29A1	Collagen, type VI, alpha 5	
COL5A1	Collagen, type V, alpha 1	
COL9A2	Collagen, type IX, alpha 2	
COMMD4	COMM domain containing 4	
COPS7B	COP9 signalosome subunit 7B	
COPS7B	COP9 signalosome subunit 7B	
CORIN	Corin, serine peptidase	
CORO2A	Coronin, actin binding protein, 2A	
CORO2B	Coronin, actin binding protein, 2B	
COX19	Cytochrome c oxidase assembly homolog 19 (<i>S. cerevisiae</i>)	
CPA4	Carboxypeptidase A4	
CPEB4	Cytoplasmic polyadenylation element binding protein 4	
CPLX2	Complexin 2	
CPNE2	Copine II	
CPS1	Carbamoyl-phosphate synthase 1, mitochondrial	
CPT1A	Carnitine palmitoyltransferase 1A (liver)	
CRADD	CASP2 and RIPK1 domain containing adaptor with death domain	
CRB1	Crumbs family member 1, photoreceptor morphogenesis associated	

CREB1	CAMP responsive element binding protein 1	√
CRK	V-crk avian sarcoma virus CT10 oncogene homolog	
CRMP1	Collapsin response mediator protein 1	
CRTC1	CREB regulated transcription coactivator 1	
CRTC3	CREB regulated transcription coactivator 3	√
CRX	Cone-rod homeobox	
CSDC2	Cold shock domain containing C2, RNA binding	
CSNK1E	Casein kinase 1, epsilon	
CSNK1G1	Casein kinase 1, gamma 1	
CTCFL	CCCTC-binding factor (zinc finger protein)-like	
CTDSPL	CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase-like	
CTLA4	Cytotoxic T-lymphocyte-associated protein 4	
CTPS	CTP synthase 1	
CTSC	Cathepsin C	
CTSK	Cathepsin K	
CTSZ	Cathepsin Z	
CUX2	Cut-like homeobox 2	
CWC27	CWC27 spliceosome-associated protein homolog (<i>S. cerevisiae</i>)	
CX3CR1	Chemokine (C-X3-C motif) receptor 1	
CXCR5	Chemokine (C-X-C motif) receptor 5	
CXorf22	Chromosome X open reading frame 22	
CYB561	Cytochrome b561	
CYCSP52	Cytochrome c, somatic pseudogene 52	
CYP2F1	Cytochrome P450, family 2, subfamily F, polypeptide 1	
CYP2U1	Cytochrome P450, family 2, subfamily U, polypeptide 1	
CYP8B1	Cytochrome P450, family 8, subfamily B, polypeptide 1	
CYTH2	Cytohesin 2	
D2HGDH	D-2-hydroxyglutarate dehydrogenase	
DACT3	Dishevelled-binding antagonist of beta-catenin 3	
DAG1	Dystroglycan 1 (dystrophin-associated glycoprotein 1)	
DAGLB	Diacylglycerol lipase, beta	

DBNDD1	Dysbindin (dystrobrevin binding protein 1) domain containing 1	
DBP	D site of albumin promoter (albumin D-box) binding protein	
DCAF11	DDB1 and CUL4 associated factor 11	
DCAF8L1	DDB1 and CUL4 associated factor 8-like 1	
DCLK2	Doublecortin-like kinase 2	
DCP2	Decapping mRNA 2	
DDA1	DET1 and DDB1 associated 1	
DDB2	Damage-specific DNA binding protein 2, 48kDa	√
DDI2	DNA-damage inducible 1 homolog 2 (<i>S. cerevisiae</i>)	
DDX10	DEAD (Asp-Glu-Ala-Asp) box polypeptide 10	√
DDX11L1	DEAD/H (Asp-Glu-Ala-Asp/His) box helicase 11 like 1	
DDX11L10	DEAD/H (Asp-Glu-Ala-Asp/His) box helicase 11 like 10	
DDX11L11	DEAD/H box polypeptide 11 like 11	
DDX11L2	DEAD/H (Asp-Glu-Ala-Asp/His) box helicase 11 like 2	
DDX11L5	DEAD/H (Asp-Glu-Ala-Asp/His) box helicase 11 like 5	
DDX11L9	DEAD/H (Asp-Glu-Ala-Asp/His) box helicase 11 like 9	
DDX3X	DEAD (Asp-Glu-Ala-Asp) box helicase 3, X-linked	
DDX60L	DEAD (Asp-Glu-Ala-Asp) box polypeptide 60-like	
DECR2	2,4-dienoyl CoA reductase 2, peroxisomal	
DENND1A	DENN/MADD domain containing 1A	
DEPDC5	DEP domain containing 5	
DERL3	Derlin 3	
DEXI	Dexi homolog (mouse)	
DGCR5	DiGeorge syndrome critical region gene 5 (non-protein coding)	
DGCR6	DiGeorge syndrome critical region gene 6	
DGCR8	DGCR8 microprocessor complex subunit	
DGCR9	DiGeorge syndrome critical region gene 9 (non-protein coding)	
DGKB	Diacylglycerol kinase, beta 90kDa	
DGKH	Diacylglycerol kinase, eta	
DGUOK	Deoxyguanosine kinase	
DHODH	Dihydroorotate dehydrogenase (quinone)	

DIDO1	Death inducer-obliterator 1	
DIRAS1	DIRAS family, GTP-binding RAS-like 1	
DIS3L2	DIS3 like 3'-5' exoribonuclease 2	
DISC1	Disrupted in schizophrenia 1	
DIXDC1	DIX domain containing 1	
DLAT	Dihydrolipoamide S-acetyltransferase	
DLX5	Distal-less homeobox 5	
DMD	Dystrophin	
DMRT1	Doublesex and mab-3 related transcription factor 1	
DNAH14	Dynein, axonemal, heavy chain 14	
DNAI2	Dynein, axonemal, intermediate chain 2	
DNAJC10	DnaJ (Hsp40) homolog, subfamily C, member 10	
DNAJC16	DnaJ (Hsp40) homolog, subfamily C, member 16	
DNM2	Dynamamin 2	√
DNMT3B	DNA (cytosine-5-)-methyltransferase 3 beta	
DOCK2	Dedicator of cytokinesis 2	
DOCK5	Dedicator of cytokinesis 5	
DOPEY1	Dopey family member 1	
DOT1L	DOT1-like histone H3K79 methyltransferase	
DPH1	Diphthamide biosynthesis 1	
DPY19L3	Dpy-19-like 3 (C. elegans)	
DRAM1	DNA-damage regulated autophagy modulator 1	
DSCC1	DNA replication and sister chromatid cohesion 1	
DSG1	Desmoglein 1	
DSP	Desmoplakin	
DTYMK	Deoxythymidylate kinase (thymidylate kinase)	
DUSP23	Dual specificity phosphatase 23	
DUSP28	Dual specificity phosphatase 28	
DUSP3	Dual specificity phosphatase 3	
DUSP7	Dual specificity phosphatase 7	
DUX4	Double homeobox 4	√

DYDC1	DPY30 domain containing 1 [<i>Homo sapiens</i> (human)]	
DYNC1LI2	Dynein, cytoplasmic 1, light intermediate chain 2	
DYNLL2	Dynein, light chain, LC8-type 2	
DYNLRB2	Dynein, light chain, roadblock-type 2	
DYSFIP1	Protein phosphatase 1, regulatory subunit 27	
E2F7	E2F transcription factor 7	
E2F8	E2F transcription factor 8	
EBF1	Early B-cell factor 1	√
EBF2	Early B-cell factor 2	
EBF3	Early B-cell factor 3	
ECSIT	ECSIT signalling integrator	
EDA	Ectodysplasin A	
EDC3	Edc3p	
EDNRB	Endothelin receptor type B	
EEF2K	Eukaryotic elongation factor-2 kinase	
EFCAB2	EF-hand calcium binding domain 2	
EHHADH	Enoyl-CoA, hydratase/3-hydroxyacyl CoA dehydrogenase	
EIF2AK1	Eukaryotic translation initiation factor 2-alpha kinase 1	
EIF2AK4	Eukaryotic translation initiation factor 2 alpha kinase 4	
EIF2S1	Eukaryotic translation initiation factor 2, subunit 1 alpha, 35kDa	
EIF4A2	Eukaryotic translation initiation factor 4A2	√
EIF4H	Eukaryotic translation initiation factor 4H	
ELAVL3	ELAV like neuron-specific RNA binding protein 3	
ELL	Elongation factor RNA polymerase II	√
ELMOD3	ELMO/CED-12 domain containing 3	
EMID2	EMI domain containing 2	
EML1	Echinoderm microtubule associated protein like 1	
EML6	Echinoderm microtubule associated protein like 6	
EMP2	Epithelial membrane protein 2	
ENDOD1	Endonuclease domain containing 1	
ENGASE	Endo-beta-N-acetylglucosaminidase	

ENPEP	Glutamyl aminopeptidase	
ENPP6	Ectonucleotide pyrophosphatase/phosphodiesterase 6	
ENTPD6	Ectonucleoside triphosphate diphosphohydrolase 6 (putative)	
EPHA10	EPH receptor A10	
EPHB1	EPH receptor B1	
EPHB6	EPH receptor B6	
EPHB6	EPH receptor B6	
EPM2A	Epilepsy, progressive myoclonus type 2A, Lafora disease (laforin)	
EPS8L1	EPS8-like 1	
EPYC	Epiphycan	
ERBB3	V-erb-b2 avian erythroblastic leukemia viral oncogene homolog 3	
ERC1	ELKS/RAB6-interacting/CAST family member 1	
ERICH1	Glutamate-rich 1	
ESR2	Estrogen receptor 2 (ER beta)	
ETF1	Eukaryotic translation termination factor 1	
ETV6	Ets variant 6	√
ETV7	Ets variant 7	
EVC	Ellis van Creveld syndrome	
EXOG	Endo/exonuclease (5'-3'), endonuclease G-like	
EXOSC2	Exosome component 2	
EXOSC8	Exosome component 8	
EZH2	Enhancer of zeste 2 polycomb repressive complex 2 subunit	√
F2R	Coagulation factor II (thrombin) receptor	
FAIM2	Fas apoptotic inhibitory molecule 2	
FAM101B	Family with sequence similarity 101, member B	
FAM103A1	Family with sequence similarity 103, member A1	
FAM104A	Family with sequence similarity 104, member A	
FAM105B	Family with sequence similarity 105, member B	
FAM115A	Family with sequence similarity 115, member A	
FAM117A	Family with sequence similarity 117, member A	
FAM119A	Family with sequence similarity 119, member A	

FAM120A	Family with sequence similarity 120, member A	
FAM122B	Family with sequence similarity 122, member B	
FAM134A	Family with sequence similarity 134, member A	
FAM13A	Family with sequence similarity 13, member A	
FAM149A	Family with sequence similarity 149, member A	
FAM153B	Family with sequence similarity 153, member B	
FAM160B1	Family with sequence similarity 160, member B1	
FAM160B2	Family with sequence similarity 160, member B2	
FAM178A	Family with sequence similarity 178, member A	
FAM179A	Family with sequence similarity 179, member A	
FAM181B	Family with sequence similarity 181, member B	
FAM189A1	family with sequence similarity 189, member A1	
FAM190A	Family with sequence similarity 190, member A	
FAM196A	Family with sequence similarity 196, member A	
FAM23A	Transmembrane protein 236	
FAM23B	Transmembrane protein 236	
FAM38B	Piezo-type mechanosensitive ion channel component 2	
FAM57A	Family with sequence similarity 57, member A	
FAM73B	Family with sequence similarity 73, member B	
FAM74A1	Family with sequence similarity 74, member A1	
FAM74A3	Family with sequence similarity 74, member A3	
FAM74A4	Family with sequence similarity 74, member A4	
FAM7A1	ULK4 pseudogene 1	
FAM7A2	ULK4 pseudogene 2	
FAM7A3	ULK4 pseudogene 3	
FAM84B	Family with sequence similarity 84, member B	
FAM99A	Family with sequence similarity 99, member A (non-protein coding)	
FARP1	FERM, RhoGEF (ARHGEF) and pleckstrin domain protein 1 (chondrocyte-derived)	
FBLN1	Fibulin 1	
FBN3	Fibrillin 3	
FBXL18	F-box and leucine-rich repeat protein 18	

FBXL2	F-box and leucine-rich repeat protein 2	
FBXO24	F-box protein 24	
FBXO41	F-box protein 41	
FBXO43	F-box protein 43	
FBXW8	F-box and WD repeat domain containing 8	
FCGR2C	Fc fragment of IgG, low affinity IIc, receptor for (CD32) (gene/pseudogene)	
FES	FES proto-oncogene, tyrosine kinase	
FES	FES proto-oncogene, tyrosine kinase	
FETUB	Fetuin B	
FFAR3	Free fatty acid receptor 3	
FGD2	FYVE, RhoGEF and PH domain containing 2	
FGF19	Fibroblast growth factor 19	
FHAD1	Forkhead-associated (FHA) phosphopeptide binding domain 1	
FIBCD1	Fibrinogen C domain containing 1	
FJX1	Four jointed box 1 (Drosophila)	
FKBP9	FK506 binding protein 9, 63 kDa	
FKTN	Fukutin	
FLJ11292	Uncharacterized protein FLJ11292	
FLJ16779	Uncharacterized LOC100192386	
FLJ30679	Uncharacterized protein FLJ30679	
FLJ30838	Long intergenic non-protein coding RNA 1122	
FLJ30901	Uncharacterized protein FLJ30901	
FLJ33581	Uncharacterized LOC400839	
FLJ39582	Uncharacterized protein FLJ39582-like	
FLJ39824	Hypothetical LOC441173	
FLJ41484	GAS6 antisense RNA 1	
FLJ41484	GAS6 antisense RNA 1	
FLJ42280	Putative uncharacterized protein FLJ42280 +B622	
FLJ44054	Long intergenic non-protein coding RNA 452	
FLJ44635	TPT1-like protein	
FLJ45340	Long intergenic non-protein coding RNA 1000	

FLJ46361	Deleted in malignant brain tumors 1 pseudogene 1	
FLJ90757	BAIAP2 antisense RNA 1	
FLRT1	Fibronectin leucine rich transmembrane protein 1	
FLT1	Fms-related tyrosine kinase 1	
FLYWCH1	FLYWCH-type zinc finger 1	
FNTB	Farnesyltransferase, CAAX box, beta	
FOSB	FBJ murine osteosarcoma viral oncogene homolog B	
FOXE1	Forkhead box E1 (thyroid transcription factor 2)	
FOXF2	Forkhead box F2	
FOXK2	Forkhead box K2	
FOXN3	Forkhead box N3	
FOXN4	Forkhead box N4	
FOXO3	Forkhead box O3	
FOXP1	Forkhead box P1	√
FRAT2	Frequently rearranged in advanced T-cell lymphomas 2	
FREM2	FRAS1 related extracellular matrix protein 2	
FRMPD4	FERM and PDZ domain containing 4	
FRY	Furry homolog (Drosophila)	
FSIP2	Fibrous sheath interacting protein 2	
FSTL1	Follistatin-like 1	
FUT2	Fucosyltransferase 2 (secretor status included)	
FUT5	Fucosyltransferase 5 (alpha (1,3) fucosyltransferase)	
FUT8	Fucosyltransferase 8 (alpha (1,6) fucosyltransferase)	
FXYD1	FXYD domain containing ion transport regulator 1	
FYTTD1	Forty-two-three domain containing 1	
G3BP2	GTPase activating protein (SH3 domain) binding protein 2	
GABBR1	Gamma-aminobutyric acid (GABA) B receptor, 1	
GABRB2	Gamma-aminobutyric acid (GABA) A receptor, beta 2	
GADD45B	Growth arrest and DNA-damage-inducible, beta	
GALNT13	Polypeptide N-acetylgalactosaminyltransferase 13	
GALNT5	Polypeptide N-acetylgalactosaminyltransferase 5	

GALNT6	Polypeptide N-acetylgalactosaminyltransferase 6	
GALNTL1	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase-like 1	
GAPT	GRB2-binding adaptor protein, transmembrane	
GAS7	Growth arrest-specific 7	√
GATA3	GATA binding protein 3	√
GATAD2A	GATA zinc finger domain containing 2A	
GCNT1	Glucosaminyl (N-acetyl) transferase 1, core 2	
GCSH	Glycine cleavage system protein H (aminomethyl carrier)	
GDAP1L1	Ganglioside induced differentiation associated protein 1-like 1	
GDI1	GDP dissociation inhibitor 1	
GFM1	G elongation factor, mitochondrial 1	
GHDC	GH3 domain containing	
GHR	Growth hormone receptor	
GIGYF2	GRB10 interacting GYF protein 2	
GINS1	GINS complex subunit 1 (Psf1 homolog)	
GIPC1	GIPC PDZ domain containing family, member 1	
GJA3	Gap junction protein, alpha 3, 46kDa	
GJD3	Gap junction protein, delta 3, 31.9kDa	
GK5	Glycerol kinase 5 (putative)	
GLB1L2	Galactosidase, beta 1-like 2	
GLIPR2	GLI pathogenesis-related 2	
GLP1R	Glucagon-like peptide 1 receptor	
GLS	Glutaminase	
GLYCK	Glycerate kinase	
GNA11	Guanine nucleotide binding protein (G protein), alpha 11 (Gq class)	√
GNAO1	Guanine nucleotide binding protein (G protein), alpha activating activity polypeptide O	
GNAS	GNAS complex locus	√
GNG2	Guanine nucleotide binding protein (G protein), gamma 2	
GNG4	Guanine nucleotide binding protein (G protein), gamma 4	
GOLGA1	Golgin A1	
GOLGA7B	Golgin A7 family, member B	

GOLGA8C	Golgin A8 family, member C, pseudogene	
GOLGA8DP	Golgin A8 family, member D, pseudogene	
GOLGA8E	Golgin A8 family, member E, pseudogene	
GOLGA8F	Golgin A8 family, member F	
GOLGA8G	Golgin A8 family, member G	
GOLT1A	Golgi transport 1A	
GORAB	Golgin, RAB6-interacting	
GPBP1	GC-rich promoter binding protein 1	
GPD1	Glycerol-3-phosphate dehydrogenase 1 (soluble)	
GPN1	GPN-loop GTPase 1	
GPR107	G protein-coupled receptor 107	
GPR111	G protein-coupled receptor 111	
GPR123	G protein-coupled receptor 123	
GPR124	G protein-coupled receptor 124	
GPR144	G protein-coupled receptor 144	
GPR179	G protein-coupled receptor 179	
GPR20	G protein-coupled receptor 20	
GPRIN2	G protein regulated inducer of neurite outgrowth 2	
GRAMD1C	GRAM domain containing 1C	
GRAMD3	GRAM domain containing 3	
GRB2	Growth factor receptor-bound protein 2	
GREB1	Growth regulation by estrogen in breast cancer 1	
GRHL3	Grainyhead-like 3 (Drosophila)	
GRIA1	Glutamate receptor, ionotropic, AMPA 1	
GRIP2	Glutamate receptor interacting protein 2	
GRK1	G protein-coupled receptor kinase 1	
GRM7	Glutamate receptor, metabotropic 7	
GSK3B	Glycogen synthase kinase 3 beta	
GTDC1	Glycosyltransferase-like domain containing 1	
GTF2H2B	General transcription factor IIH, polypeptide 2B (pseudogene)	
GTF2H5	General transcription factor IIH, polypeptide 5	

GTF2IRD1	GTF2I repeat domain containing 1	
GTPBP1	GTP binding protein 1	
GTSE1	G-2 and S-phase expressed 1	
GYG2	Glycogenin 2	
GYPC	Glycophorin C (Gerbich blood group)	
H1F0	H1 histone family, member 0	
H1FX	H1 histone family, member X	
H2AFV	H2A histone family, member V	
H2AFY	H2A histone family, member Y	
HAAO	3-Hydroxyanthranilate 3,4-dioxygenase	
HABP2	Hyaluronan binding protein 2	
HBEGF	Heparin-binding EGF-like growth factor	
HBS1L	HBS1-like translational GTPase	
HCG27	HLA complex group 27 (non-protein coding)	
HDAC4	Histone deacetylase 4	
HDAC6	Histone deacetylase 6	
HDGFRP2	Hepatoma-derived growth factor-related protein 2	
HDLBP	High density lipoprotein binding protein	
HEATR2	HEAT repeat containing 2	
HELLS	Helicase, lymphoid-specific	
HEXA	Hexosaminidase A (alpha polypeptide)	
HEXIM1	Hexamethylene bis-acetamide inducible 1	
HHIP	Hedgehog interacting protein	
HIF3A	Hypoxia inducible factor 3, alpha subunit	
HINT2	Histidine triad nucleotide binding protein 2	
HIP1	Huntingtin interacting protein 1	√
HIST2H2BE	Histone cluster 2, H2be	
HLA-A	Major histocompatibility complex, class I, A	
HLA-DMB	Major histocompatibility complex, class II, DM beta	
HLA-DOB	Major histocompatibility complex, class II, DO beta	
HLA-DPB1	Major histocompatibility complex, class II, DP beta 1	

HLA-J	Major histocompatibility complex, class I, J (pseudogene)	
HLA-L	Major histocompatibility complex, class I, L (pseudogene)	
HMBOX1	Homeobox containing 1	
HMGCL	3-hydroxymethyl-3-methylglutaryl-CoA lyase	
HOXC4	Homeobox C4	
HPCAL1	Hippocalcin-like 1	
HPS1	Hermansky-Pudlak syndrome 1	
HRH1	Histamine receptor H1	
HSD17B1	Hydroxysteroid (17-beta) dehydrogenase 1	
HSD3B7	Hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase 7	
HSFX1	Heat shock transcription factor family, X linked 1	
HSPA14	Heat shock 70kDa protein 14	
HSPG2	Heparan sulfate proteoglycan 2	
HUWE1	HECT, UBA and WWE domain containing 1, E3 ubiquitin protein ligase	
IARS	Isoleucyl-tRNA synthetase	
IDS	Iduronate 2-sulfatase	
IFIT2	Interferon-induced protein with tetratricopeptide repeats 2	
IFNAR1	Interferon (alpha, beta and omega) receptor 1	
IGF1R	Insulin-like growth factor 1 receptor	
IGFBP5	Insulin-like growth factor binding protein 5	
IGHMBP2	Immunoglobulin mu binding protein 2	
IGSF5	Immunoglobulin superfamily, member 5	
IKBKB	Inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase beta	
IKZF1	IKAROS family zinc finger 1 (Ikaros)	
IL15	Interleukin 15	
IL16	Interleukin 16	
IL17D	Interleukin 17D	
IL17RE	Interleukin 17 receptor E	
IL1F9	Interleukin 1 family, member 9	
IL1RN	Interleukin 1 receptor antagonist	
IL27	Interleukin 27	

ING5	Inhibitor of growth family, member 5	
INMT	Indolethylamine N-methyltransferase	
INTS1	Integrator complex subunit 1	
INTU	Inturned planar cell polarity protein	
IPO8	Importin 8	
IQCE	IQ motif containing E	
ISCU	Iron-sulfur cluster assembly enzyme	
ISG20	Interferon stimulated exonuclease gene 20kDa	
ISPD	Isoprenoid synthase domain containing	
ITFG3	Integrin alpha FG-GAP repeat containing 3	
ITGA2	Integrin, alpha 2 (CD49B, alpha 2 subunit of VLA-2 receptor)	
ITGA7	Integrin, alpha 7	
ITGA9	Integrin, alpha 9	
ITIH1	Inter-alpha-trypsin inhibitor heavy chain 1	
ITPK1	Inositol-tetrakisphosphate 1-kinase	
JAKMIP1	Janus kinase and microtubule interacting protein 1	
JMJD5	lysine (K)-specific demethylase 8	
JMJD6	Jumonji domain containing 6	
JRK	Jrk homolog (mouse)	
JUP	Junction plakoglobin	
KANK1	KN motif and ankyrin repeat domains 1	
KANK4	KN motif and ankyrin repeat domains 4	
KAZ	Kazrin, periplakin interacting protein	
KBTBD5	Kelch-like family member 40	
KCNA1	Potassium voltage-gated channel, shaker-related subfamily, member 1 (episodic ataxia with myokymia)	
KCNC1	Potassium voltage-gated channel, Shaw-related subfamily, member 1	
KCNE4	Potassium voltage-gated channel, Isk-related family, member 4	
KCNE4	Potassium voltage-gated channel, Isk-related family, member 4	
KCNG3	Potassium voltage-gated channel, subfamily G, member 3	
KCNJ2	Potassium inwardly-rectifying channel, subfamily J, member 2	
KCNK2	Potassium channel, subfamily K, member 2	

KCNMA1	Potassium large conductance calcium-activated channel, subfamily M, alpha member 1	
KCNN2	Potassium intermediate/small conductance calcium-activated channel, subfamily N, member 2	
KCNN3	Potassium intermediate/small conductance calcium-activated channel, subfamily N, member 3	
KCNS2	Potassium voltage-gated channel, delayed-rectifier, subfamily S, member 2	
KCNU1	Potassium channel, subfamily U, member 1	
KCTD12	Potassium channel tetramerization domain containing 12	
KCTD2	Potassium channel tetramerization domain containing 2	
KCTD8	Potassium channel tetramerization domain containing 8	
KDEL2	KDEL (Lys-Asp-Glu-Leu) endoplasmic reticulum protein retention receptor 2	
KDM4B	Lysine (K)-specific demethylase 4B	
KDM4C	Lysine (K)-specific demethylase 4C	
KGFLP1	Fibroblast growth factor 7 pseudogene	
KHNYN	KH and NYN domain containing	
KHSRP	KH-type splicing regulatory protein	
KIAA0125	KIAA0125	
KIAA0182	Gse1 coiled-coil protein	
KIAA0319L	KIAA0319-like	
KIAA0355	KIAA0355	
KIAA0430	KIAA0430	
KIAA0513	KIAA0513	
KIAA0776	UFM1-specific ligase 1	
KIAA1715	KIAA1715	
KIAA1908	PSMG3 antisense RNA 1	
KIF11	Kinesin family member 11	
KIF13A	Kinesin family member 13A	
KIF21B	Kinesin family member 21B	
KIF26A	Kinesin family member 26A	
KIF3B	Kinesin family member 3B	
KLF12	Kruppel-like factor 12	
KLF13	Kruppel-like factor 13	
KLF17	Kruppel-like factor 17	

KLF3	Kruppel-like factor 3 (basic)	
KLHDC10	Kelch domain containing 10	
KLHL18	Kelch-like family member 18	
KLHL29	Kelch-like family member 29	
KLHL30	Kelch-like family member 30	
KLRAQ1	Protein phosphatase 1, regulatory subunit 21	
KREMEN1	Kringle containing transmembrane protein 1	
KRT14	Keratin 14	
KRT33B	Keratin 33B	
KRT8P12	Keratin 8 pseudogene 12	
KSR2	Kinase suppressor of ras 2	
KTELC1	Protein O-glycosyltransferase 1	
L3MBTL	L(3)mbt-like 1 (Drosophila)	
LALBA	Lactalbumin, alpha-	
LARGE	Like-glycosyltransferase	
LASP1	LIM and SH3 protein 1	
LASS1	Ceramide synthase 1	
LCLAT1	Lysocardiolipin acyltransferase 1	
LDLRAD2	Low density lipoprotein receptor class A domain containing 2	
LDLRAD3	Low density lipoprotein receptor class A domain containing 3	
LETM2	Leucine zipper-EF-hand containing transmembrane protein 2	
LHX6	LIM homeobox 6	
LIG4	Ligase IV, DNA, ATP-dependent	
LIMK1	LIM domain kinase 1	
LIMK2	LIM domain kinase 2	
LIMS3	LIM and senescent cell antigen-like domains 3	
LIMS3-LOC440895	LIMS3-LOC440895 readthrough	
LINGO1	Leucine rich repeat and Ig domain containing 1	
LMAN2L	Lectin, mannose-binding 2-like	
LMBR1	Limb development membrane protein 1	
LMNA	Lamin A/C	

LMO1	LIM domain only 1 (rhombotin 1)	√
LMO3	LIM domain only 3 (rhombotin-like 2)	
LNP1	Leukemia NUP98 fusion partner 1	
LOC100125918	Uncharacterized LOC100125918	
LOC100128126	STAU2 antisense RNA 1	
LOC100128554	Uncharacterized LOC100128554	
LOC100129196	MATN1 antisense RNA 1	
LOC100129250	TOPORS antisense RNA 1	
LOC100129716	ARRDC3 antisense RNA 1	
LOC100129826	Uncharacterized LOC100129826	
LOC100130238	Uncharacterized LOC100130238	
LOC100130331	POTE ankyrin domain family, member F pseudogene	
LOC100130353	Hippocampus abundant transcript-like 1 pseudogene	
LOC100130386	Long intergenic non-protein coding RNA 552	
LOC100130776	AGAP2 antisense RNA 1	
LOC100130987	Uncharacterized LOC100130987	
LOC100131347	RAD52 motif containing 1 pseudogene	
LOC100131530	Uncharacterized LOC100131530	
LOC100132062	Uncharacterized LOC100132062	
LOC100132832	Postmeiotic segregation increased 2 pseudogene 9	
LOC100132984		
LOC100133029	Sirtuin 5 pseudogene	
LOC100133091	Uncharacterized LOC100133091	
LOC100133161	Long intergenic non-protein coding RNA 1001	
LOC100133331	Uncharacterized LOC100133331	
LOC100133612	Long intergenic non-protein coding RNA 1134	
LOC100134040	Uncharacterized LOC100134040	
LOC100134229	JHDM1D antisense RNA 1 (head to head)	
LOC100147773	Uncharacterized LOC100147773	
LOC100287290	Cytokine receptor CRL2	
LOC100288346	NCAM1 antisense RNA1	

LOC100289580	Uncharacterized LOC100289580	
LOC100302401	RASAL2 antisense RNA 1	
LOC126536	Long intergenic non-protein coding RNA 661	
LOC143188	Uncharacterized LOC143188	
LOC145820	Long intergenic non-protein coding RNA 924	
LOC149773	APCDD1L antisense RNA 1 (head to head)	
LOC150381	PRR34 antisense RNA 1	
LOC150776	Sphingomyelin phosphodiesterase 4, neutral membrane (neutral sphingomyelinase-3) pseudogene	
LOC152217	NCBP2 antisense RNA 2 (head to head)	
LOC152225	Uncharacterized LOC152225	
LOC157273	Uncharacterized LOC157273	
LOC255025	Long intergenic non-protein coding RNA 879	
LOC255411	Long intergenic non-protein coding RNA 935	
LOC256880	Uncharacterized LOC256880	
LOC26102	Uncharacterized LOC26102	
LOC283887	Uncharacterized LOC283887	
LOC284294	Uncharacterized LOC284294	
LOC284581	Uncharacterized LOC284581	
LOC284628	Uncharacterized LOC284628	
LOC284632	Uncharacterized LOC284632	
LOC284749	Long intergenic non-protein coding RNA 494	
LOC284926	Uncharacterized LOC284926	
LOC285205	Long intergenic non-protein coding RNA 636	
LOC285593	Uncharacterized LOC285593	
LOC286299	Uncharacterized LOC286299	
LOC338797	Uncharacterized LOC338797	
LOC339240	Keratin 17 pseudogene 5	
LOC340074	Uncharacterized LOC340074	
LOC341056	SUMO1 activating enzyme subunit 1 pseudogene	
LOC344887	NmrA-like family domain containing 1 pseudogene	
LOC348021	Long intergenic non-protein coding RNA 442	

LOC349114	Similar to hypothetical protein LOC349114	
LOC374491	Transmembrane phosphoinositide 3-phosphatase and tensin homolog 2 pseudogene 6	
LOC387646	Leucine rich repeat containing 37, member A6, pseudogene	
LOC388692	Uncharacterized LOC388692	
LOC388692	Uncharacterized LOC388692	
LOC388889	Hypothetical LOC388889	
LOC390940	Phospholipase A2 inhibitor and LY6/PLAUR domain containing	
LOC392232	Transient receptor potential cation channel, subfamily A, member 1 pseudogene	
LOC399744	Long intergenic non-protein coding RNA 999	
LOC400553	Uncharacterized LOC400553	
LOC400707	Uncharacterized LOC400707	
LOC400804	Uncharacterized LOC400804	
LOC400891	Leucine rich repeat containing 74B	
LOC400931	MIRLET7B host gene (non-protein coding)	
LOC401296	Uncharacterized LOC401296	
LOC401463	Uncharacterized LOC401463	
LOC401589	Uncharacterized LOC401589	
LOC440248	Hect domain and RLD 2 pseudogene 9	
LOC440297	Chondroitin sulfate proteoglycan 4 pseudogene 8	
LOC440356	CDIPT antisense RNA 1 (head to head)	
LOC440792	Proline dehydrogenase (oxidase) 1 pseudogene	
LOC440926	H3 histone, family 3A, pseudogene 4	
LOC440993	Long intergenic non-protein coding RNA 969	
LOC441046	Glucuronidase, beta pseudogene 5	
LOC550643	Long intergenic non-protein coding RNA 1420	
LOC619207	Scavenger receptor protein family member	
LOC63930	Uncharacterized LOC63930	
LOC641515	Alpha-1,3-mannosyl-glycoprotein 4-beta-N-acetylglucosaminyltransferase-like protein LOC641515 homolog	
LOC642852	Uncharacterized LOC642852	
LOC643008	Small integral membrane protein 5	
LOC643387	TAR DNA binding protein pseudogene	

LOC643401	Long intergenic non-protein coding RNA 1021	
LOC643529	Long intergenic non-protein coding RNA 865	
LOC644090	Uncharacterized LOC644090	
LOC645195	Uncharacterized LOC645195	
LOC647288	CTAGE family, member 11, pseudogene	
LOC647979	Long intergenic non-protein coding RNA 657	
LOC650368	Tumor suppressing subtransferable candidate 2 pseudogene	
LOC651250	Leucine rich repeat containing 37, member A16, pseudogene	
LOC728537	Long intergenic non-protein coding RNA 1125	
LOC729603	Calcineurin-like EF-hand protein 1 pseudogene	
LOC730101	Uncharacterized LOC730101	
LOC84740	AFAP1 antisense RNA 1	
LOR	Loricrin	
LPIN3	Lipin 3	
LPP	LIM domain containing preferred translocation partner in lipoma	√
LPPR2	Lipid phosphate phosphatase-related protein type 2	
LRCH1	Leucine-rich repeats and calponin homology (CH) domain containing 1	
LRG1	Leucine-rich alpha-2-glycoprotein 1	
LRP6	Low density lipoprotein receptor-related protein 6	
LRRC14	Leucine rich repeat containing 14	
LRRC15	Leucine rich repeat containing 15	
LRRC27	Leucine rich repeat containing 27	
LRRC3B	Leucine rich repeat containing 3B	
LRRFIP1	Leucine rich repeat (in FLII) interacting protein 1	
LRRIQ1	Leucine-rich repeats and IQ motif containing 1	
LRRK1	Leucine-rich repeat kinase 1	
LRTM2	Leucine-rich repeats and transmembrane domains 2	
LRWD1	Leucine-rich repeats and WD repeat domain containing 1	
LSG1	Large 60S subunit nuclear export GTPase 1	
LSM14B	LSM14B, SCD6 homolog B (<i>S. cerevisiae</i>)	
LSMD1	LSM domain containing 1	

LTBP2	Latent transforming growth factor beta binding protein 2	
LY6E	Lymphocyte antigen 6 complex, locus E	
LY6K	Lymphocyte antigen 6 complex, locus K	
LY9	Lymphocyte antigen 9	
LYNX1	Ly6/neurotoxin 1	
LYPD6	LY6/PLAUR domain containing 6	
LYSMD4	LysM, putative peptidoglycan-binding, domain containing 4	
LYST	Lysosomal trafficking regulator	
MACC1	Metastasis associated in colon cancer 1	
MAFG	V-maf avian musculoaponeurotic fibrosarcoma oncogene homolog G	
MAGI1	Membrane associated guanylate kinase, WW and PDZ domain containing 1	
MAK	Male germ cell-associated kinase	
MALAT1	Metastasis associated lung adenocarcinoma transcript 1 (non-protein coding)	√
MAMLD1	Mastermind-like domain containing 1	
MAN1B1	Mannosidase, alpha, class 1B, member 1	
MAN2A2	Mannosidase, alpha, class 2A, member 2	
MAN2B2	Mannosidase, alpha, class 2B, member 2	
MAOB	Monoamine oxidase B	
MAP2K7	Mitogen-activated protein kinase kinase 7	
MAP3K2	Mitogen-activated protein kinase kinase kinase 2	
MAP3K5	Mitogen-activated protein kinase kinase kinase 5	
MAP6D1	MAP6 domain containing 1	
MAPK12	Mitogen-activated protein kinase 12	
MAPRE2	Microtubule-associated protein, RP/EB family, member 2	
MARK2	MAP/microtubule affinity-regulating kinase 2	
MARVELD2	MARVEL domain containing 2	
MAST1	Microtubule associated serine/threonine kinase 1	
MAST3	Microtubule associated serine/threonine kinase 3	
MASTL	Microtubule associated serine/threonine kinase-like	
MAX	MYC associated factor X	√
MBD5	Methyl-CpG binding domain protein 5	

MBNL1	Muscleblind-like splicing regulator 1	
MBP	Myelin basic protein	
MCART3P	Solute carrier family 25, member 51 pseudogene 1	
MCHR1	Melanin-concentrating hormone receptor 1	
MCM5	Minichromosome maintenance complex component 5	
MCTS1	Malignant T cell amplified sequence 1	
MDGA1	MAM domain containing glycosylphosphatidylinositol anchor 1	
MECP2	Methyl CpG binding protein 2	
MED1	Mediator complex subunit 1	
MED25	Mediator complex subunit 25	
MED27	Mediator complex subunit 27	
MED28	Mediator complex subunit 28	
MEG8	Maternally expressed 8 (non-protein coding)	
MEGF8	Multiple EGF-like-domains 8	
METAP2	Methionyl aminopeptidase 2	
METT10D	Methyltransferase like 16	
MFAP3	Microfibrillar-associated protein 3	
MFRP	Membrane frizzled-related protein	
MFSD7	Major facilitator superfamily domain containing 7	
MGA	MGA, MAX dimerization protein	
MGAT5B	Mannosyl (alpha-1,6-)-glycoprotein beta-1,6-N-acetyl-glucosaminyltransferase, isozyme B	
MGC12916	Uncharacterized protein MGC12916	
MGC23284	SNAI3 antisense RNA 1	
MGC2752	CENPBD1 pseudogene 1	
MGC34034	Long intergenic non-protein coding RNA 1312	
MGLL	Monoglyceride lipase	
MIA	Melanoma inhibitory activity	
MIAT	Myocardial infarction associated transcript (non-protein coding)	
MICAL3	Microtubule associated monooxygenase, calponin and LIM domain containing 3	
MID1	Midline 1	
MID2	Midline 2	

MIER1	Mesoderm induction early response 1, transcriptional regulator	
MKI67IP	Nucleolar protein interacting with the FHA domain of MKI67	
MKL1	Megakaryoblastic leukemia (translocation) 1	√
MKNK2	MAP kinase interacting serine/threonine kinase 2	
MKX	Mohawk homeobox	
MLEC	Malectin	
MLL3	Lysine (K)-specific methyltransferase 2C	√
MLL5	Lysine (K)-specific methyltransferase 2E	
MLLT1	myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to, 1	√
MLXIP	MLX interacting protein	
MLYCD	Malonyl-CoA decarboxylase	
MMAB	Methylmalonic aciduria (cobalamin deficiency) cblB type	
MMP11	Matrix metalloproteinase 11 (stromelysin 3)	
MMP25	Matrix metalloproteinase 25	
MN1	Meningioma (disrupted in balanced translocation) 1	√
MNT	MAX network transcriptional repressor	
MNX1	Motor neuron and pancreas homeobox 1	
MOBKL1A	MOB kinase activator 1B	
MORN1	MORN repeat containing 1	
MPHOSPH6	M-phase phosphoprotein 6	
MPI	Mannose phosphate isomerase	
MPP4	Membrane protein, palmitoylated 4 (MAGUK p55 subfamily member 4)	
MPST	Mercaptopyruvate sulfurtransferase	
MPZL1	Myelin protein zero-like 1	
MPZL3	Myelin protein zero-like 3	
MREG	Melanoregulin	
MRPS11	Mitochondrial ribosomal protein S11	
MRPS18A	Mitochondrial ribosomal protein S18A	
MRPS35	Mitochondrial ribosomal protein S35	
MS4A10	Membrane-spanning 4-domains, subfamily A, member 10	
MS4A2	Membrane-spanning 4-domains, subfamily A, member 2	

MS4A7	Membrane-spanning 4-domains, subfamily A, member 7	
MSI2	Musashi RNA-binding protein 2	√
MSRA	Methionine sulfoxide reductase A	
MST1	Macrophage stimulating 1 (hepatocyte growth factor-like)	
MST1P2	Macrophage stimulating 1 (hepatocyte growth factor-like) pseudogene 2	
MSTO2P	Misato family member 2, pseudogene	
MSX2	Msh homeobox 2	
MSX2P1	Msh homeobox 2 pseudogene 1	
MTA2	Metastasis associated 1 family, member 2	
MTHFSD	Methenyltetrahydrofolate synthetase domain containing	
MTL5	Metallothionein-like 5, testis-specific (tesmin)	
MTMR1	Yotubularin related protein 1	
MTMR9	Myotubularin related protein 9	
MTR	5-methyltetrahydrofolate-homocysteine methyltransferase	
MYB	V-myb avian myeloblastosis viral oncogene homolog	
MYBPC3	Myosin binding protein C, cardiac	
MYCBPAP	MYCBP associated protein	
MYH10	Myosin, heavy chain 10, non-muscle	
MYO5A	Myosin VA (heavy chain 12, myoxin)	
MYO7A	Myosin VIIA	
MYOCD	Myocardin	
MYOD1	Myogenic differentiation 1	
MYOZ2	Myozenin 2	
MYOZ3	Myozenin 3	
MYPN	Myopalladin	
NACC1	Nucleus accumbens associated 1, BEN and BTB (POZ) domain containing	
NAPIL5	Nucleosome assembly protein 1-like 5	
NAPA	N-ethylmaleimide-sensitive factor attachment protein, alpha	
NARG2	NMDA receptor regulated 2	
NBLA00301	HAND2 antisense RNA 1 (head to head)	
NCAM1	Neural cell adhesion molecule 1	

NCAPG	Non-SMC condensin I complex, subunit G	
NCDN	Neurochondrin	
NCK2	NCK adaptor protein 2	
NCLN	Nicalin	
NCRNA00085	Sperm acrosome associated 6, pseudogene	
NCRNA00093	DNMBP antisense RNA 1	
NCRNA00095	FBXL19 antisense RNA 1 (head to head)	
NCRNA00105	ASMTL antisense RNA 1	
NCRNA00213	HOXA distal transcript antisense RNA	
NCRNA00222	Long intergenic non-protein coding RNA 222	
NDUFA10	Long intergenic non-protein coding RNA 222	
NECAP2	NECAP endocytosis associated 2	
NEDD4L	Neural precursor cell expressed, developmentally down-regulated 4-like, E3 ubiquitin protein ligase	
NEFH	Neurofilament, heavy polypeptide	
NEFM	Neurofilament, medium polypeptide	
NEK11	NIMA-related kinase 11	
NEU1	Sialidase 1	
NEU4	Sialidase 4	
NF1	Neurofibromin 1	√
NFIA	Nuclear factor I/A	
NHEJ1	Nonhomologous end-joining factor 1	
NIPA1	Non imprinted in Prader-Willi/Angelman syndrome 1	
NIPA2	Non imprinted in Prader-Willi/Angelman syndrome 2	
NIPAL4	NIPA-like domain containing 4	
NIPSNAP3B	Nipsnap homolog 3B (<i>C. elegans</i>)	
NISCH	Nischarin	
NKX2-3	NK2 homeobox 3	
NLRC5	NLR family, CARD domain containing 5	
NME4	NME/NM23 nucleoside diphosphate kinase 4	
NMT1	N-myristoyltransferase 1	
NOB1	NIN1/RPN12 binding protein 1 homolog (<i>S. cerevisiae</i>)	

NOS1AP	Nitric oxide synthase 1 (neuronal) adaptor protein	
NOX5	NADPH oxidase, EF-hand calcium binding domain 5	
NPAS3	Neuronal PAS domain protein 3	
NPAS4	Neuronal PAS domain protein 4	
NPEPL1	Aminopeptidase-like 1	
NPLOC4	Nuclear protein localization 4 homolog (<i>S. cerevisiae</i>)	
NPNT	Nephronectin	
NPTX1	Neuronal pentraxin	
NPTXR	Neuronal pentraxin receptor	
NPY6R	Neuropeptide Y receptor Y6 (pseudogene)	
NR1D2	Neuropeptide Y receptor Y6 (pseudogene)	
NR3C1	Nuclear receptor subfamily 3, group C, member 1 (glucocorticoid receptor)	
NR4A1	Nuclear receptor subfamily 4, group A, member 1	
NRP1	Neuropilin 1	
NRP2	Neuropilin 2	
NRSN1	Neurensin 1	
NRXN3	Neurexin 3	
NSL1	NSL1, MIS12 kinetochore complex component	
NSUN7	NOP2/Sun domain family, member 7	
NT5DC3	5'-nucleotidase domain containing 3	
NTNG2	Netrin G2	
NTSR1	Neurotensin receptor 1 (high affinity)	
NUB1	Negative regulator of ubiquitin-like proteins 1	
NUBPL	Nucleotide binding protein-like	
NUFIP2	Nuclear fragile X mental retardation protein interacting protein 2	
OAS3	2'-5'-oligoadenylate synthetase 3, 100kDa	
OCIAD1	OCIA domain containing 1	
OLFM1	Olfactomedin 1	
OLFM4	Olfactomedin 4	
OLIG1	Oligodendrocyte transcription factor 1	
ONECUT1	One cut homeobox 1	

ONECUT2	One cut homeobox 2	
OPA3	Optic atrophy 3 (autosomal recessive, with chorea and spastic paraplegia)	
OPN1MW	Opsin 1 (cone pigments), medium-wave-sensitive	
OPN3	Opsin 3	
OR7E156P	Olfactory receptor, family 7, subfamily E, member 156 pseudogene	
ORAI3	ORAI calcium release-activated calcium modulator 3	
ORMDL3	ORMDL sphingolipid biosynthesis regulator 3	
OSBP2	Oxysterol binding protein 2	
OSBPL10	Oxysterol binding protein-like 10	
OSBPL2	Oxysterol binding protein-like 2	
OSBPL8	Oxysterol binding protein-like 8	
OTP	Orthopedia homeobox	
OTUD3	OTU deubiquitinase 3	
OVOS	Ovostatin	
OXA1L	Oxidase (cytochrome c) assembly 1-like	
P2RX7	Purinergic receptor P2X, ligand-gated ion channel, 7	
PABPN1	Poly(A) binding protein, nuclear 1	
PACRGL	PARK2 co-regulated-like	
PACSIN1	Protein kinase C and casein kinase substrate in neurons 1	
PAFAH1B2	Platelet-activating factor acetylhydrolase 1b, catalytic subunit 2 (30kDa)	√
PAOX	Polyamine oxidase (exo-N4-amino)	
PAPLN	Papilin, proteoglycan-like sulfated glycoprotein	
PAPPA2	Pappalysin 2	
PARK7	Parkinson protein 7	
PARP9	Poly (ADP-ribose) polymerase family, member 9	
PARVG	Parvin, gamma	
PAX5	Paired box 5	√
PAX7	Paired box 7	√
PBXIP1	Pre-B-cell leukemia homeobox interacting protein 1	
PCCB	Propionyl CoA carboxylase, beta polypeptide	
PCGF3	Polycomb group ring finger 3	

PCGF6	Polycomb group ring finger 6	
PCLO	Piccolo presynaptic cytomatrix protein	
PCNXL2	Pecanex-like 2 (Drosophila)	
PCSK6	Proprotein convertase subtilisin/kexin type 6	
PDCD7	Programmed cell death 7	
PDCL	Phosducin-like	
PDE10A	Phosphodiesterase 10A	
PDE4DIP	Phosphodiesterase 4D interacting protein	√
PDE8B	Phosphodiesterase 8B	
PKD1	Pyruvate dehydrogenase kinase, isozyme 1	
PDLIM2	PDZ and LIM domain 2 (mystique)	
PDLIM3	PDZ and LIM domain 3	
PDS5B	PDS5, regulator of cohesion maintenance, homolog B (<i>S. cerevisiae</i>)	
PDXK	Pyridoxal (pyridoxine, vitamin B6) kinase	
PDXP	Pyridoxal (pyridoxine, vitamin B6) phosphatase	
PELI1	Pellino E3 ubiquitin protein ligase 1	
PELI3	Pellino E3 ubiquitin protein ligase family member 3	
PER1	Period circadian clock 1	√
PERP	PERP, TP53 apoptosis effector	
PEX14	Peroxisomal biogenesis factor 14	
PEX7	Peroxisomal biogenesis factor 7	
PFDN1	Prefoldin subunit 1	
PGBD5	PiggyBac transposable element derived 5	
PGGT1B	Protein geranylgeranyltransferase type I, beta subunit	
PGM5	Phosphoglucomutase 5	
PGP	Phosphoglycolate phosphatase	
PHACTR1	Phosphatase and actin regulator 1	
PHACTR2	Phosphatase and actin regulator 2	
PHB2	Prohibitin 2	
PHF11	PHD finger protein 11	
PHF15	PHD finger protein 15	

PHF21A	PHD finger protein 21A	
PHF8	PHD finger protein 8	
PHLDB1	Pleckstrin homology-like domain, family B, member 1	
PIAS2	Protein inhibitor of activated STAT, 2	
PID1	Phosphotyrosine interaction domain containing 1	
PIK3C2G	Phosphotyrosine interaction domain containing 1	
PIK3C3	Phosphatidylinositol 3-kinase, catalytic subunit type 3	
PIK3R2	Phosphoinositide-3-kinase, regulatory subunit 2 (beta)	
PIM1	Pim-1 proto-oncogene, serine/threonine kinase	√
PIN1	Peptidylprolyl cis/trans isomerase, NIMA-interacting 1	
PIP4K2C	Phosphatidylinositol-5-phosphate 4-kinase, type II, gamma	
PIP5K1P1	Phosphatidylinositol-4-phosphate 5-kinase, type I, pseudogene 1	
PIP5KL1	Phosphatidylinositol-4-phosphate 5-kinase-like 1	
PKD1L2	Polycystic kidney disease 1-like 2	
PKP2	Plakophilin 2	
PLA2G15	Phospholipase A2, group XV	
PLA2G4F	Phospholipase A2, group IVF	
PLA2G5	Phospholipase A2, group V	
PLAT	Plasminogen activator, tissue	
PLB1	Phospholipase B1	
PLCL2	Phospholipase C-like 2	
PLEKHA5	Pleckstrin homology domain containing, family A member 5	
PLEKHA7	Pleckstrin homology domain containing, family A member 7	
PLEKHB2	Pleckstrin homology domain containing, family B (evectins) member 2	
PLEKHG1	Pleckstrin homology domain containing, family G (with RhoGef domain) member 1	
PLEKHG4B	Pleckstrin homology domain containing, family G (with RhoGef domain) member 4B	
PLEKHM3	Pleckstrin homology domain containing, family M, member 3	
PLK3	Polo-like kinase 3	
PLP1	Proteolipid protein 1	
PLVAP	Plasmalemma vesicle associated protein	
PLXND1	Plexin D1	

PM20D2	Peptidase M20 domain containing 2	
PML	Promyelocytic leukemia	√
PMS2L11	DTX2P1-UPK3BP1-PMS2P11 readthrough transcribed pseudogene	
PMS2L2	Postmeiotic segregation increased 2-like 2 pseudogene	
PMS2L3	Postmeiotic segregation increased 2 pseudogene 3	
PMS2L5	Postmeiotic segregation increased 2 pseudogene 5	
PNLIPRP3	Pancreatic lipase-related protein 3	
PNMA3	Paraneoplastic Ma antigen 3	
PNPLA4	Patatin-like phospholipase domain containing 4	
PODN	Podocan	
POLD1	Polymerase (DNA directed), delta 1, catalytic subunit	
POLN	Polymerase (DNA directed) nu	
POLR1D	Polymerase (RNA) I polypeptide D, 16kDa	
POLR1E	Polymerase (RNA) I polypeptide E, 53kDa	
POLR2H	Polymerase (RNA) II (DNA directed) polypeptide H	
POM121C	POM121 transmembrane nucleoporin C	
POM121L8P	POM121 transmembrane nucleoporin-like 8 pseudogene	
POM121L9P	POM121 transmembrane nucleoporin-like 9, pseudogene	
POU2F2	POU class 2 homeobox 2	
POU2F3	POU class 2 homeobox 3	
PPARA	Peroxisome proliferator-activated receptor alpha	
PPARGC1A	Peroxisome proliferator-activated receptor gamma, coactivator 1 alpha	
PPFIBP1	PTPRF interacting protein, binding protein 1 (liprin beta 1)	
PPFIBP2	PTPRF interacting protein, binding protein 2 (liprin beta 2)	
PPIL5	Leucine rich repeat protein 1	
PIIP5K2	Diphosphoinositol pentakisphosphate kinase 2	
PPM1K	Protein phosphatase, Mg ²⁺ /Mn ²⁺ dependent, 1K	
PPP1R12A	Protein phosphatase 1, regulatory subunit 12A	
PPP1R12B	Protein phosphatase 1, regulatory subunit 12B	
PPP1R14C	Protein phosphatase 1, regulatory (inhibitor) subunit 14C	
PPP2R1B	Protein phosphatase 2, regulatory subunit A, beta	

PPP2R4	Protein phosphatase 2A activator, regulatory subunit 4	
PPP4C	Protein phosphatase 4, catalytic subunit	
PPP6C	Protein phosphatase 6, catalytic subunit	
PPRC1	Peroxisome proliferator-activated receptor gamma, coactivator-related 1	
PQLC1	PQ loop repeat containing 1	
PRAMEF11	PRAME family member 11	
PRAMEF4	PRAME family member 4	
PRAMEF5	PRAME family member 5	
PRAMEF6	PRAME family member 6	
PRAMEF9	PRAME family member 9	
PRDM2	PR domain containing 2, with ZNF domain	
PRDX2	Peroxiredoxin 2	
PRELP	Proline/arginine-rich end leucine-rich repeat protein	
PRG4	Proteoglycan 4	
PRKCZ	Protein kinase C, zeta	
PRKRA	Protein kinase, interferon-inducible double stranded RNA dependent activator	
PRKX	Protein kinase, X-linked	
PRKY	Protein kinase, Y-linked, pseudogene	
PRMT1	Protein arginine methyltransferase 1	
PRMT2	Protein arginine methyltransferase 2	
PRPF3	Pre-mRNA processing factor 3	
PRPF4	Pre-mRNA processing factor 4	
PRPH2	Peripherin 2 (retinal degeneration, slow)	
PRR18	Proline rich 18	
PRR23A	Proline rich 23A	
PRRC1	Proline-rich coiled-coil 1	
PRUNE	Prune exopolyphosphatase	
PSD3	Pleckstrin and Sec7 domain containing 3	
PSMB4	Proteasome (prosome, macropain) subunit, beta type, 4	
PSMD9	Proteasome (prosome, macropain) 26S subunit, non-ATPase, 9	
PTAFR	Platelet-activating factor receptor	

PTBP1	Polypyrimidine tract binding protein 1	
PTEN	Phosphatase and tensin homolog	√
PTGDR	Prostaglandin D2 receptor (DP)	
PTGFRN	Prostaglandin F2 receptor inhibitor	
PTK7	Protein tyrosine kinase 7	
PTPN5	Protein tyrosine phosphatase, non-receptor type 5 (striatum-enriched)	
PTPN6	Protein tyrosine phosphatase, non-receptor type 6	
PTPRD	Protein tyrosine phosphatase, receptor type, D	
PTPRJ	Protein tyrosine phosphatase, receptor type, J	
PTRF	Polymerase I and transcript release factor	
PUS1	Pseudouridylate synthase 1	
PXDN	Peroxidasin homolog (Drosophila)	
QPRT	Quinolate phosphoribosyltransferase	
QRICH1	Glutamine-rich 1	
RAB11FIP4	RAB11 family interacting protein 4 (class II)	
RAB3GAP1	RAB3 GTPase activating protein subunit 1 (catalytic)	
RAB3IP	RAB3A interacting protein	
RAB40C	RAB40C, member RAS oncogene family	
RABGAP1	RAB GTPase activating protein 1	
RABGEF1	RAB guanine nucleotide exchange factor (GEF) 1	
RAC2	Ras-related C3 botulinum toxin substrate 2 (rho family, small GTP binding protein Rac2)	
RALGDS	Ral guanine nucleotide dissociation stimulator	
RANBP17	RAN binding protein 17	√
RAP1GAP2	RAP1 GTPase activating protein 2	
RAPGEF3	Rap guanine nucleotide exchange factor (GEF) 3	
RAPGEFL1	Rap guanine nucleotide exchange factor (GEF)-like 1	
RARRES1	Retinoic acid receptor responder (tazarotene induced) 1	
RASA4	RAS p21 protein activator 4	
RASA4	RAS p21 protein activator 4	
RASA4B	RAS p21 protein activator 4B	
RASL10B	RAS-like, family 10, member B	

RASSF2	Ras association (RalGDS/AF-6) domain family member 2	
RBM22	RNA binding motif protein 22	
RBM9	RNA binding protein, fox-1 homolog (C. elegans) 2	
RBMXL2	RNA binding motif protein, X-linked-like 2	
RECK	Reversion-inducing-cysteine-rich protein with kazal motifs	
RECQL5	RecQ protein-like 5	
REEP6	Receptor accessory protein 6	
RELA	V-rel avian reticuloendotheliosis viral oncogene homolog A	
REM1	RAS (RAD and GEM)-like GTP-binding 1	
REXO1L2P	REX1, RNA exonuclease 1 homolog (S. cerevisiae)-like 2 (pseudogene)	
RGAG4	Retrotransposon gag domain containing 4	
RGPD4	RANBP2-like and GRIP domain containing 4	
RGS12	Regulator of G-protein signaling 12	
RGS3	Regulator of G-protein signaling 3	
RGS6	Regulator of G-protein signaling 6	
RGS9	Regulator of G-protein signaling 9	
RHBDF2	Rhomboid 5 homolog 2 (Drosophila)	
RHOBTB1	Rho-related BTB domain containing 1	
RHOT1	Ras homolog family member T1	
RIBC1	RIB43A domain with coiled-coils 1	
RIC8B	RIC8 guanine nucleotide exchange factor B	
RICTOR	RPTOR independent companion of MTOR, complex 2	
RIMS3	Regulating synaptic membrane exocytosis 3	
RIOK3	RIO kinase 3	
RIT2	Ras-like without CAAX 2	
RMND5A	Required for meiotic nuclear division 5 homolog A (S. cerevisiae)	
RNASEL	Ribonuclease L (2',5'-oligoadenylate synthetase-dependent)	
RNF10	Ring finger protein 10	
RNF111	Ring finger protein 111	
RNF115	Ring finger protein 115	
RNF126P1	Ring finger protein 126 pseudogene 1	

RNF165	Ring finger protein 165	
RNF169	Ring finger protein 169	
RNF17	Ring finger protein 17	
RNF222	Ring finger protein 222	
RNF24	Ring finger protein 24	
RNF32	Ring finger protein 32	
RNF7	Ring finger protein 7	
RNF8	Ring finger protein 8, E3 ubiquitin protein ligase	
RNFT2	Ring finger protein, transmembrane 2	
RNMT	RNA (guanine-7-) methyltransferase	
ROBO1	Roundabout, axon guidance receptor, homolog 1 (Drosophila)	
ROBO2	Roundabout, axon guidance receptor, homolog 2(Drosophila)	
ROBO4	Roundabout, axon guidance receptor, homolog 3 (Drosophila)	
RORA	RAR-related orphan receptor A	
RPA1	Replication protein A1, 70kDa	
RPAP3	RNA polymerase II associated protein 3	
RPL10	Ribosomal protein L10	√
RPL23AP82	Ribosomal protein L23a pseudogene 82	
RPS18	Ribosomal protein S18	
RPS21	Ribosomal protein S21	
RPS28	Ribosomal protein S28	
RPUSD3	RNA pseudouridylate synthase domain containing 3	
RRAGD	Ras-related GTP binding D	
RRN3P2	RNA polymerase I transcription factor homolog (S. cerevisiae) pseudogene 2	
RTEL1	Regulator of telomere elongation helicase 1	
RTF1	Rtf1, Paf1/RNA polymerase II complex component, homolog (S. cerevisiae)	
RTKN	Rhotekin	
RTKN2	Rhotekin 2	
RUSC1	RUN and SH3 domain containing 1	
RUSC2	RUN and SH3 domain containing 2	
RXRA	Retinoid X receptor, alpha	

S100A1	S100 calcium binding protein A1	
S100A3	S100 calcium binding protein A3	
SAE1	SUMO1 activating enzyme subunit 1	
SALL2	Spalt-like transcription factor 2	
SAP30BP	SAP30 binding protein	
SAP30L	SAP30-like	
SAPS1	Protein phosphatase 6, regulatory subunit 1	
SART1	Squamous cell carcinoma antigen recognized by T cells	
SART3	Squamous cell carcinoma antigen recognized by T cells 3	
SATB2	SATB homeobox 2	
SBF2	SET binding factor 2	
SC65	Leprecan-like 4	
SCAMP4	Secretory carrier membrane protein 4	
SCARA5	Scavenger receptor class A, member 5	
SCARNA6	Small Cajal body-specific RNA 6	
SCD5	Stearoyl-CoA desaturase 5	
SCFD2	Sec1 family domain containing 2	
SCN2A	Sodium channel, voltage-gated, type II, alpha subunit	
SCN4B	Sodium channel, voltage-gated, type IV, beta subunit	
SCN7A	Sodium channel, voltage-gated, type VII, alpha subunit	
SCN8A	Sodium channel, voltage gated, type VIII, alpha subunit	
SCNM1	Sodium channel modifier 1	
SDC3	Syndecan 3	
SDHAF1	Succinate dehydrogenase complex assembly factor 1	
SEC14L1	SEC14-like 1 (<i>S. cerevisiae</i>)	
SEC14L2	SEC14-like 2 (<i>S. cerevisiae</i>)	
SEC14L5	SEC14-like 5 (<i>S. cerevisiae</i>)	
SEC24D	SEC24 family member D	
SEMA3B	Sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3B	
SEMA4D	Sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4D	
SEMA4G	Sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4G	

SENP6	SUMO1/sentrin specific peptidase 6	
SEPHS1	Selenophosphate synthetase 1	
SEPN1	Selenoprotein N, 1	
SEPT5	Septin 5	
SEPT6	Septin 6	√
SERF2	Small EDRK-rich factor 2	
SERHL	Serine hydrolase-like	
SET	SET nuclear proto-oncogene	√
SETBP1	SET binding protein 1	√
SETD8	SET domain containing (lysine methyltransferase) 8	
SF1	Splicing factor 1	
SFI1	Sfi I homolog, spindle assembly associated (yeast)	
SFRS1	Serine/arginine-rich splicing factor 1	
SFRS12	Splicing regulatory glutamine/lysine-rich protein 1	
SFRS13A	Serine/arginine-rich splicing factor 10	
SFRS4	Serine/arginine-rich splicing factor 4	
SFXN3	Sideroflexin 3	
SFXN5	Sideroflexin 5	
SGCB	Sarcoglycan, beta	
SGEF	Rho guanine nucleotide exchange factor (GEF) 26	
SH2D4B	SH2 domain containing 4B	
SH3BP2	SH3-domain binding protein 2	
SH3PXD2B	SH3 and PX domains 2B	
SHANK3	SH3 and multiple ankyrin repeat domains 3	
SHISA6	Shisa family member 6	
SHOX2	Short stature homeobox 2	
SHPK	Sedoheptulokinase	
SHQ1	SHQ1, H/ACA ribonucleoprotein assembly factor	
SHROOM2	Shroom family member 2	
SHROOM4	Shroom family member 4	
SI	Sucrase-isomaltase (alpha-glucosidase)	

SIDT1	SID1 transmembrane family, member 1	
SIGLEC1	Sialic acid binding Ig-like lectin 1, sialoadhesin	
SIPA1L3	Signal-induced proliferation-associated 1 like 3	
SKA1	Spindle and kinetochore associated complex subunit 1	
SLC11A2	Solute carrier family 11 (proton-coupled divalent metal ion transporter), member 2	
SLC12A3	Solute carrier family 12 (sodium/chloride transporter), member 3	
SLC12A5	Solute carrier family 12 (potassium/chloride transporter), member 5	
SLC13A2	Solute carrier family 13 (sodium-dependent dicarboxylate transporter), member 2	
SLC17A5	Solute carrier family 17 (acidic sugar transporter), member 5	
SLC1A7	Solute carrier family 1 (glutamate transporter), member 7	
SLC20A2	Solute carrier family 20 (phosphate transporter), member 2	
SLC22A12	Solute carrier family 22 (organic anion/urate transporter), member 12	
SLC22A3	Solute carrier family 22 (organic cation transporter), member 3	
SLC22A4	Solute carrier family 22 (organic cation/zwitterion transporter), member 4	
SLC25A37	Solute carrier family 25 (mitochondrial iron transporter), member 37	
SLC25A42	Solute carrier family 25, member 42	
SLC30A8	Solute carrier family 30 (zinc transporter), member 8	
SLC35A3	Solute carrier family 35 (UDP-N-acetylglucosamine (UDP-GlcNAc) transporter), member A3	
SLC35B4	Solute carrier family 35 (UDP-xylose/UDP-N-acetylglucosamine transporter), member B4	
SLC35E2	Solute carrier family 35, member E2	
SLC39A13	Solute carrier family 39 (zinc transporter), member 13	
SLC39A3	Solute carrier family 39 (zinc transporter), member 3	
SLC45A4	Solute carrier family 45, member 4	
SLC46A1	Solute carrier family 46 (folate transporter), member 1	
SLC4A1	Solute carrier family 4 (anion exchanger), member 1 (Diego blood group)	
SLC4A2	Solute carrier family 4 (anion exchanger), member 2	
SLC6A2	Solute carrier family 6 (neurotransmitter transporter), member 2	
SLC6A20	Solute carrier family 6 (proline IMINO transporter), member 20	
SLC6A6	Solute carrier family 6 (neurotransmitter transporter), member 6	
SLC7A2	Solute carrier family 7 (cationic amino acid transporter, y+ system), member 2	
SLC7A5	Solute carrier family 7 (amino acid transporter light chain, L system), member 5	

SLC8A1	Solute carrier family 8 (sodium/calcium exchanger), member 1	
SLC9A2	Solute carrier family 9, subfamily A (NHE2, cation proton antiporter 2), member 2	
SLCO1A2	Solute carrier organic anion transporter family, member 1A2	
SLCO2B1	Solute carrier organic anion transporter family, member 2B1	
SLCO5A1	Solute carrier organic anion transporter family, member 5A1	
SMAD1	SMAD family member 1	
SMAP1	Small ArfGAP 1	
SMARCAL1	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a-like 1	
SMARCE1	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily e, member 1	√
SMCHD1	Structural maintenance of chromosomes flexible hinge domain containing 1	
SMCR8	Smith-Magenis syndrome chromosome region, candidate 8	
SMG6	SMG6 nonsense mediated mRNA decay factor	
SMPD1	Sphingomyelin phosphodiesterase 1, acid lysosomal	
SMPD4	Sphingomyelin phosphodiesterase 4, neutral membrane (neutral sphingomyelinase-3)	
SMUG1	Single-strand-selective monofunctional uracil-DNA glycosylase 1	
SMURF1	SMAD specific E3 ubiquitin protein ligase 1	
SNAPC5	Small nuclear RNA activating complex, polypeptide 5, 19kDa	
SNORA70	Small nucleolar RNA, H/ACA box 70	
SNORD114-24	Small nucleolar RNA, C/D box 114-24	
SNORD35A	Small nucleolar RNA, C/D box 35A	
SNORD35B	Small nucleolar RNA, C/D box 35B	
SNPH	Syntaphilin	
SNRPN	Small nuclear ribonucleoprotein polypeptide N	
SNTB2	Syntrophin, beta 2 (dystrophin-associated protein A1, 59 kDa, basic component 2)	
SNTG1	Syntrophin, gamma 1	
SNTG2	Syntrophin, gamma 2	
SNX21	Sorting nexin family member 21	
SNX22	Sorting nexin family member 22	
SNX29	Sorting nexin 29	
SOBP	Sine oculis binding protein homolog (Drosophila)	
SOCS3	Suppressor of cytokine signaling 3	

SOCS4	Suppressor of cytokine signaling 4	
SOCS7	Suppressor of cytokine signaling 7	
SOHLH2	Spermatogenesis and oogenesis specific basic helix-loop-helix 2	
SORCS2	Sortilin-related VPS10 domain containing receptor 2	
SORCS3	Sortilin-related VPS10 domain containing receptor 3	
SORL1	Sortilin-related receptor, L(DLR class) A repeats containing	
SOX13	SRY (sex determining region Y)-box 13	
SOX4	SRY (sex determining region Y)-box 4	
SP140	SP140 nuclear body protein	
SP140L	SP140 nuclear body protein-like	
SPACA1	Sperm acrosome associated 1	
SPATA17	Spermatogenesis associated 17	
SPATA18	Spermatogenesis associated 18	
SPATA5L1	Spermatogenesis associated 5-like 1	
SPDYE3	Speedy/RINGO cell cycle regulator family member E3	
SPEF1	Sperm flagellar 1	
SPG7	Spastic paraplegia 7 (pure and complicated autosomal recessive)	
SPN	Sialophorin	
SPOCK1	Sparc/osteonectin, cwcv and kazal-like domains proteoglycan (testican) 1	
SPOCK2	Sparc/osteonectin, cwcv and kazal-like domains proteoglycan (testican) 2	
SPRED1	Sprouty-related, EVH1 domain containing 1	
SPTB	Spectrin, beta, erythrocytic	
SPTLC3	Serine palmitoyltransferase, long chain base subunit 3	
SRC	SRC proto-oncogene, non-receptor tyrosine kinase	
SRCAP	Snf2-related CREBBP activator protein	
SRD5A1	Steroid-5-alpha-reductase, alpha polypeptide 1 (3-oxo-5 alpha-steroid delta 4-dehydrogenase alpha 1)	
SRGAP1	SLIT-ROBO Rho GTPase activating protein 1	
SRGAP3	SLIT-ROBO Rho GTPase activating protein 3	
SRP14P1	Signal recognition particle 14kDa (homologous Alu RNA binding protein) pseudogene 1	
SRRM1	Serine/arginine repetitive matrix 1	
SRRM3	Serine/arginine repetitive matrix 3	

SS18L1	Synovial sarcoma translocation gene on chromosome 18-like 1	√
SSH1	Slingshot protein phosphatase 1	
SSX8	Synovial sarcoma, X breakpoint 8	
ST3GAL3	ST3 beta-galactoside alpha-2,3-sialyltransferase 3	
ST3GAL4	ST3 beta-galactoside alpha-2,3-sialyltransferase 4	
ST8SIA3	ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 3	
STAG3L1	Stromal antigen 3-like 1 (pseudogene)	
STAG3L2	Stromal antigen 3-like 2 (pseudogene)	
STAG3L3	Stromal antigen 3-like 3 (pseudogene)	
STARD3	StAR-related lipid transfer (START) domain containing 3	
STIM2	Stromal interaction molecule 2	
STK11IP	Serine/threonine kinase 11 interacting protein	
STK16	Serine/threonine kinase 16	
STK19	Serine/threonine kinase 19	
STK24	Serine/threonine kinase 24	
STK4	Serine/threonine kinase 4	
STON1	Stonin 1	
STX17	Syntaxin 17	
SUDS3	Suppressor of defective silencing 3 homolog (<i>S. cerevisiae</i>)	
SULF1	Sulfatase 1	
SULT4A1	Sulfotransferase family 4A, member 1	
SUMF2	Sulfatase modifying factor 2	
SUN1	Sad1 and UNC84 domain containing 1	
SURF4	Surfeit 4	
SV2B	Synaptic vesicle glycoprotein 2B	
SVOP	SV2 related protein homolog (rat)	
SYMPK	Symplekin	
SYN3	Synapsin III	
SYNGR1	Synaptogyrin 1	
SYNJ2	Synaptojanin 2	
SYNM	Synemin, intermediate filament protein	

SYNPO2	Synaptopodin 2	
SYPL2	Synaptophysin-like 2	
SYT1	Synaptotagmin I	
TACC1	Transforming, acidic coiled-coil containing protein 1	
TAL1	T-cell acute lymphocytic leukemia 1	√
TANC1	Tetratricopeptide repeat, ankyrin repeat and coiled-coil containing 1	
TANC2	Tetratricopeptide repeat, ankyrin repeat and coiled-coil containing 2	
TAP2	Transporter 2, ATP-binding cassette, sub-family B (MDR/TAP)	
TAPBP	TAP binding protein (tapasin)	
TAPBPL	TAP binding protein-like	
TARBP2	TAR (HIV-1) RNA binding protein 2	
TBC1D14	TBC1 domain family, member 14	
TBC1D16	TBC1 domain family, member 16	
TBC1D20	TBC1 domain family, member 20	
TBC1D21	TBC1 domain family, member 21	
TBC1D24	TBC1 domain family, member 24	
TBC1D2B	TBC1 domain family, member 2B	
TBC1D4	TBC1 domain family, member 4	
TBC1D9B	TBC1 domain family, member 9B (with GRAM domain)	
TBL1XR1	Transducin (beta)-like 1 X-linked receptor 1	√
TBR1	T-box, brain, 1	
TBX2	T-box 2	
TCEB2	Transcription elongation factor B (SIII), polypeptide 2 (18kDa, elongin B)	
TCEB2	Transcription elongation factor B (SIII), polypeptide 2 (18kDa, elongin B)	
TCF19	Transcription factor 19	
TCL6	T-cell leukemia/lymphoma 6 (non-protein coding)	√
TCN2	Transcobalamin II	
TDG	Thymine-DNA glycosylase	
TDRD12	Tudor domain containing 12	
TEC	Tec protein tyrosine kinase	
TEF	Thyrotrophic embryonic factor	

TENC1	Tensin like C1 domain containing phosphatase (tensin 2)	
TET2	Tet methylcytosine dioxygenase 2	√
TET3	Tet methylcytosine dioxygenase 3	
TF	Transferrin	
TFAM	Transcription factor A, mitochondrial	
TFAP2B	Transcription factor AP-2 beta (activating enhancer binding protein 2 beta)	
TFCP2L1	Transcription factor CP2-like 1	
TGFB2	Transforming growth factor, beta 2	
TGIF2	TGFB-induced factor homeobox 2	
TGOLN2	Trans-golgi network protein 2	
THAP5	THAP domain containing 5	
THOC1	THO complex 1	
THRA	Thyroid hormone receptor, alpha	
THSD4	Thrombospondin, type I, domain containing 4	
THSD7A	Thrombospondin, type I, domain containing 7A	
THSD7B	Thrombospondin, type I, domain containing 7B	
TIAM1	T-cell lymphoma invasion and metastasis 1	
TIMM17B	Translocase of inner mitochondrial membrane 17 homolog B (yeast)	
TIMM22	Translocase of inner mitochondrial membrane 22 homolog (yeast)	
TINAG	Tubulointerstitial nephritis antigen	
TJP2	Tight junction protein 2	
TLE2	Transducin-like enhancer of split 2	
TLN2	Talin 2	
TM9SF3	Transmembrane 9 superfamily member 3	
TMC5	Transmembrane channel-like 5	
TMC6	Transmembrane channel-like 6	
TMCC3	Transmembrane and coiled-coil domain family 3	
TMEM107	Transmembrane protein 107	
TMEM135	Transmembrane protein 135	
TMEM140	Transmembrane protein 140	
TMEM143	Transmembrane protein 143	

TMEM151B	Transmembrane protein 151B	
TMEM154	Transmembrane protein 154	
TMEM159	Transmembrane protein 159	
TMEM179	Transmembrane protein 179	
TMEM202	Transmembrane protein 202	
TMEM208	Transmembrane protein 208	
TMEM229B	Transmembrane protein 229B	
TMEM50A	Transmembrane protein 50A	
TMEM54	Transmembrane protein 54	
TMEM57	Transmembrane protein 57	
TMEM95	Transmembrane protein 95	
TMPRSS13	Transmembrane protease, serine 13	
TNFRSF4	Tumor necrosis factor receptor superfamily, member 4	
TNIK	TRAF2 and NCK interacting kinase	
TNK1	Tyrosine kinase, non-receptor, 1	
TNKS	Tankyrase, TRF1-interacting ankyrin-related ADP-ribose polymerase	
TNKS2	Tankyrase, TRF1-interacting ankyrin-related ADP-ribose polymerase 2	
TNPO2	Transportin 2	
TNR	Tenascin R	
TNRC6C	Trinucleotide repeat containing 6C	
TNS3	Tensin 3	
TP53	Tumor protein p53	√
TP53I13	Tumor protein p53 inducible protein 13	
TPD52L1	Tumor protein D52-like 1	
TPO	Thyroid peroxidase	
TPTE2P3	Transmembrane phosphoinositide 3-phosphatase and tensin homolog 2 pseudogene 3	
TRAF4	TNF receptor-associated factor 4	
TRAM2	Translocation associated membrane protein 2	
TRAPPC4	Trafficking protein particle complex 4	
TRAPPC6B	Trafficking protein particle complex 6B	
TRERF1	Transcriptional regulating factor 1	

TRHDE	Thyrotropin-releasing hormone degrading enzyme	
TRIM25	Tripartite motif containing 25	
TRIM29	Tripartite motif containing 29	
TRIM32	Tripartite motif containing 32	
TRIM41	Tripartite motif containing 41	
TRIM46	Tripartite motif containing 46	
TRIM73	Tripartite motif containing 73	
TRIO	Trio Rho guanine nucleotide exchange factor	
TRPC1	Transient receptor potential cation channel, subfamily C, member 1	
TRPM6	Transient receptor potential cation channel, subfamily M, member 6	
TRPV3	Transient receptor potential cation channel, subfamily V, member 3	
TSC22D1	TSC22 domain family, member 1	
TSC22D2	TSC22 domain family, member 2	
TSHR	Thyroid stimulating hormone receptor	√
TSLP	Thymic stromal lymphopoietin	
TSNARE1	T-SNARE domain containing 1	
TSNAX-DISC1	TSNAX-DISC1 readthrough (NMD candidate)	
TSPAN10	Tetraspanin 10	
TSPAN13	Tetraspanin 13	
TSPAN3	Tetraspanin 3	
TSPYL6	TSPY-like 6	
TSTD2	Thiosulfate sulfurtransferase (rhodanese)-like domain containing 2	
TTC39C	Tetratricopeptide repeat domain 39C	
TTC9	Tetratricopeptide repeat domain 9	
TTL	Tubulin tyrosine ligase	√
TTY22	Testis-specific transcript, Y-linked 22 (non-protein coding)	
TUBGCP5	Tubulin, gamma complex associated protein 5	
TULP4	Tubby like protein 4	
TUSC5	Tumor suppressor candidate 5	
TWF2	Twinfilin actin-binding protein 2	
TXLNG	Taxilin gamma	

TXNDC15	Thioredoxin domain containing 15	
U2AF2	U2 small nuclear RNA auxiliary factor 2	
UACA	Uveal autoantigen with coiled-coil domains and ankyrin repeats	
UBA2	Ubiquitin-like modifier activating enzyme 2	
UBE2E2	Ubiquitin-conjugating enzyme E2E 2	
UBE2F	Ubiquitin-conjugating enzyme E2F (putative)	
UBE2M	Ubiquitin-conjugating enzyme E2M	
UBE2Q1	Ubiquitin-conjugating enzyme E2Q family member 1	
UBE4B	Ubiquitination factor E4B	
UBFD1	Ubiquitin family domain containing 1	
UBOX5	U-box domain containing 5	
UBXN2A	UBX domain protein 2A	
UCKL1AS	UCKL1 antisense RNA 1	
UGGT1	UDP-glucose glycoprotein glucosyltransferase 1	
UGGT2	UDP-glucose glycoprotein glucosyltransferase 2	
UHRF1	Ubiquitin-like with PHD and ring finger domains 1	
ULBP1	UL16 binding protein 1	
UPK1B	Uroplakin 1B	
USP12	Ubiquitin specific peptidase 12	
USP40	Ubiquitin specific peptidase 40	
USP9Y	Ubiquitin specific peptidase 9, Y-linked	
VANGL1	VANGL planar cell polarity protein 1	
VAPB	VAMP (vesicle-associated membrane protein)-associated protein B and C	
VARS2	Valyl-tRNA synthetase 2, mitochondrial	
VAV2	Vav 2 guanine nucleotide exchange factor	
VCAN	Versican	
VEZF1	Vascular endothelial zinc finger 1	
VGLL3	Vestigial-like family member 3	
VGLL4	Vestigial-like family member 4	
VIPR2	Vasoactive intestinal peptide receptor 2	
VIT	Vitrin	

VKORC1L1	Vitamin K epoxide reductase complex, subunit 1-like 1	
VLDLR	Very low density lipoprotein receptor	
VPS13D	Vacuolar protein sorting 13 homolog D (<i>S. cerevisiae</i>)	
VPS16	Vacuolar protein sorting 16 homolog (<i>S. cerevisiae</i>)	
VPS28	Vacuolar protein sorting 28 homolog (<i>S. cerevisiae</i>)	
VPS33A	Vacuolar protein sorting 33 homolog A (<i>S. cerevisiae</i>)	
VPS39	Vacuolar protein sorting 39 homolog (<i>S. cerevisiae</i>)	
VPS4B	Vacuolar protein sorting 4 homolog B (<i>S. cerevisiae</i>)	
VSTM2A	V-set and transmembrane domain containing 2A	
VWA3B	Von Willebrand factor A domain containing 3B	
WASF3	WAS protein family, member 3	
WASH2P	WAS protein family homolog 2 pseudogene	
WASH7P	WAS protein family homolog 7 pseudogene	
WBP2	WW domain binding protein 2	
WBSCR17	Williams-Beuren syndrome chromosome region 17	
WDFY2	WD repeat and FYVE domain containing 2	
WDFY4	WDFY family member 4	
WDR20	WD repeat domain 20	
WDR25	WD repeat domain 25	
WDR35	WD repeat domain 35	
WDR36	WD repeat domain 36	
WDR37	WD repeat domain 37	
WDR6	WD repeat domain 6	
WDR60	WD repeat domain 60	
WDR72	WD repeat domain 72	
WDR8	WD repeat domain 8	
WDR86	WD repeat domain 86	
WDR90	WD repeat domain 90	
WFDC5	WAP four-disulfide core domain 5	
WFIKKN1	WAP, follistatin/kazal, immunoglobulin, kunitz and netrin domain containing 1	
WHSC2	Negative elongation factor complex member A	

WIZ	Widely interspaced zinc finger motifs	
WSB2	WD repeat and SOCS box containing 2	
WWC2	WW and C2 domain containing 2	
XDH	Xanthine dehydrogenase	
XPA	Xeroderma pigmentosum, complementation group A	
XPNPEP3	X-prolyl aminopeptidase (aminopeptidase P) 3, putative	
XYLB	Xylulokinase homolog (H. influenzae)	
YEATS2	YEATS domain containing 2	
YPEL4	Yippee-like 4 (Drosophila)	
ZACN	Zinc activated ligand-gated ion channel	
ZADH2	Zinc binding alcohol dehydrogenase domain containing 2	
ZAN	Zonadhesin	
ZAP70	Zeta-chain (TCR) associated protein kinase 70kDa	
ZBTB32	Zinc finger and BTB domain containing 32	
ZBTB4	Zinc finger and BTB domain containing 4	
ZBTB41	Zinc finger and BTB domain containing 41	
ZBTB47	Zinc finger and BTB domain containing 47	
ZBTB49	Zinc finger and BTB domain containing 49	
ZC3H12C	Zinc finger CCCH-type containing 12C	
ZC3H7B	Zinc finger CCCH-type containing 7B	
ZCCHC11	Zinc finger, CCHC domain containing 11	
ZCCHC18	Zinc finger, CCHC domain containing 18	
ZDHHC3	Zinc finger, DHHC-type containing 3	
ZDHHC6	Zinc finger, DHHC-type containing 6	
ZER1	Zyg-11 related, cell cycle regulator	
ZFAND2A	Zinc finger, AN1-type domain 2A	
ZFP106	Zinc finger protein 106 homolog (mouse)	
ZFP41	ZFP41 zinc finger protein	
ZFP64	ZFP64 zinc finger protein	
ZFYVE19	Zinc finger, FYVE domain containing 19	
ZFYVE21	Zinc finger, FYVE domain containing 21	

ZFYVE27	Zinc finger, FYVE domain containing 27	
ZFYVE28	Zinc finger, FYVE domain containing 28	
ZMIZ1	Zinc finger, MIZ-type containing 1	
ZMIZ2	Zinc finger, MIZ-type containing 2	
ZMYM2	Zinc finger, MYM-type 2	
ZNF131	Zinc finger protein 131	
ZNF160	Zinc finger protein 160	
ZNF2	Zinc finger protein 2	
ZNF205	Zinc finger protein 205	
ZNF207	Zinc finger protein 207	
ZNF263	Zinc finger protein 263	
ZNF273	Zinc finger protein 273	
ZNF275	Zinc finger protein 275	
ZNF280B	Zinc finger protein 280B	
ZNF3	Zinc finger protein 3	
ZNF324B	Zinc finger protein 324B	
ZNF33B	Zinc finger protein 33B	
ZNF416	Zinc finger protein 416	
ZNF426	Zinc finger protein 426	
ZNF445	Zinc finger protein 445	
ZNF517	Zinc finger protein 517	
ZNF530	Zinc finger protein 530	
ZNF562	Zinc finger protein 562	
ZNF568	Zinc finger protein 568	
ZNF587	Zinc finger protein 587	
ZNF592	Zinc finger protein 592	
ZNF618	Zinc finger protein 618	
ZNF687	Zinc finger protein 687	
ZNF697	Zinc finger protein 697	
ZNF773	Zinc finger protein 773	
ZNF787	Zinc finger protein 787	

ZNF839	Zinc finger protein 839	
ZNF862	Zinc finger protein 862	
ZNRF1	Zinc and ring finger 1, E3 ubiquitin protein ligase	
ZNRF3	Zinc and ring finger 3	
ZXDC	ZXD family zinc finger C	
ZZEF1	Zinc finger, ZZ-type with EF-hand domain 1	

Supplementary Table 12. Predicted targets of hsa-miR-181a-3p by DIANA microT v 5.0

Gene name	Full name	miTG score	Cancer gene
AC090772.9	Uncharacterized protein ENSP00000383318 fragment	0.562	
AC092031.1	Chromosome 7 open reading frame 76	0.47	
AC137600.1	Putative uncharacterized protein ENSP00000409039 fragment	0.5	
AFF4	AF4/FMR2 family, member 4	0.465	
AGPAT4	1-Acylglycerol-3-phosphate O-acyltransferase 4	0.583	
ALG8	α 1,3-Glucosyltransferase	0.567	
ANKRD13C	Ankyrin repeat domain 13C	0.466	
APTX	Aprataxin	0.453	
AREG	Amphiregulin	0.455	
ARIH2	Ariadne RBR E3 ubiquitin protein ligase 2	0.465	
ARL4A	ADP-ribosylation factor-like 4A	0.685	
ARL4C	ADP-ribosylation factor-like 4C	0.484	
ARMC4	Armadillo repeat containing 4	0.576	
ARNTL	Aryl hydrocarbon receptor nuclear translocator-like	0.476	
ARPP21	cAMP-regulated phosphoprotein, 21 kDa	0.544	
ASPSCR1	Alveolar soft part sarcoma chromosome region, candidate 1	0.459	√
ATP5E	ATP synthase, H ⁺ transporting, mitochondrial F1 complex, epsilon subunit	0.47	
ATP6V1B2	ATPase, H ⁺ transporting, lysosomal 56/58 kDa, V1 subunit B2	0.47	
B3GAT2	β 1,3-Glucuronyltransferase 2 (glucuronosyltransferase S)	0.509	
BACE2	β -Site APP-cleaving enzyme 2	0.474	
BAHCC1	BAH domain and coiled-coil containing 1	0.456	
BCL11A	B-cell CLL/lymphoma 11A (zinc finger protein)	0.496	√
BTC	Betacellulin	0.517	
C11orf57	Chromosome 11 open reading frame 57	0.564	
C14orf28	Chromosome 14 open reading frame 28	0.63	
C15orf41	Chromosome 15 open reading frame 41	0.495	
C2	Complement component 2	0.455	
CA1	Carbonic anhydrase I	0.476	
CA5B	Carbonic anhydrase VB, mitochondrial	0.466	

CACNA1D	Calcium channel, voltage-dependent, L type, alpha 1D subunit	0.543	√
CALM1	Calmodulin 1 (phosphorylase kinase, delta)	0.48	
CBX5	c-Chromobox homolog 5	0.607	
CCDC113	Coiled-coil domain containing 113	0.533	
CCND2	Cyclin D2	0.512	√
CCNL1	Cyclin L1	0.705	
CCT7	Chaperonin containing TCP1, subunit 7 (eta)	0.503	
CDC42EP3	CDC42 effector protein (Rho GTPase binding) 3	0.472	
CDK5RAP3	CDK5 regulatory subunit associated protein 3	0.564	
CDK9	Cyclin-dependent kinase 9	0.483	
CENPJ	Centromere protein J	0.467	
CEP57L1	Centrosomal protein 57 kDa-like 1	0.481	
CERKL	Ceramide kinase-like	0.485	
CERS6	Ceramide synthase 6	0.453	
CHIC1	Cysteine-rich hydrophobic domain 1	0.479	
CHMP4B	Charged multivesicular body protein 4B	0.451	
CHTF8	CTF8, chromosome transmission fidelity factor 8 homolog	0.47	
CILP2	Cartilage intermediate layer protein 2	0.478	
CKB	Creatine kinase, brain	0.462	
CLDN12	Claudin 12	0.453	
CLEC2D	C-type lectin domain family 2, member D	0.463	
CMAS	Cytidine monophosphate <i>N</i> -acetylneuraminic acid synthetase	0.456	
CNBP	CCHC-type zinc finger, nucleic acid binding protein	0.496	
CNGB3	Cyclic nucleotide gated channel b3	0.481	
COL11A1	Collagen, type XI, a1	0.464	
COL9A2	Collagen, type IX, a2	0.48	
COMP	Cartilage oligomeric matrix protein	0.557	
COQ6	Coenzyme Q6 monooxygenase	0.458	
CPED1	Cadherin-like and PC-esterase domain containing 1	0.451	
CPNE4	Copine IV	0.532	
CPS1	Carbamoyl-phosphate synthase 1, mitochondrial	0.466	
CPSF3L	Cleavage and polyadenylation specific factor 3-like	0.49	
CPZ	Carboxypeptidase Z	0.458	

CTB-50L17.10	Hepatoma-derived growth factor-related protein 2	0.454	
CTC-550B14.6	CTC-550B14.6	0.467	
CTLA4	Cytotoxic T-lymphocyte-associated protein 4	0.454	
CX3CR1	Chemokine (C-X3-C motif) receptor 1	0.465	
CYFIP2	Cytoplasmic FMR1 interacting protein 2	0.478	
CYTL1	Cytokine-like 1	0.456	
DCUN1D2	DCN1, defective in cullin neddylation 1, domain containing 2	0.494	
DGKA	Diacylglycerol kinase, alpha 80kDa	0.669	
DHX35	DEAH (Asp-Glu-Ala-His) box polypeptide 35	0.631	
DNAH6	Dynein, axonemal, heavy chain 6	0.586	
DOCK1	Dedicator of cytokinesis 1	0.472	
DOCK5	Dedicator of cytokinesis 5	0.496	
DRAXIN	Dorsal inhibitory axon guidance protein	0.599	
DUSP18	Dual specificity phosphatase 18	0.452	
DUSP23	Dual specificity phosphatase 23	0.482	
EGR2	Early growth response 2	0.452	
ELN	Elastin	0.516	√
EMC4	ER membrane protein complex subunit 4	0.594	
ENPP2	Ectonucleotide pyrophosphatase/phosphodiesterase 2	0.502	
ESCO1	Establishment of sister chromatid cohesion N-acetyltransferase 1	0.493	
ETF1	Eukaryotic translation termination factor 1	0.523	
ETV1	Ets variant 1	0.471	√
EZH2	Enhancer of zeste 2 polycomb repressive complex 2 subunit	0.567	√
FAIM2	Fas apoptotic inhibitory molecule 2	0.481	
FAM122B	Family with sequence similarity 122B	0.694	
FAM131B	Family with sequence similarity 131, member B	0.492	
FAM190A	Coiled-coil serine-rich protein 1	0.471	
FIBP	Fibroblast growth factor (acidic) intracellular binding protein	0.451	
FLYWCH1	FLYWCH-type zinc finger 1	0.634	
FOXP1	Forkhead box N1	0.516	
GATA3	GATA binding protein 3	0.45	√
GATSL3	GATS protein-like 3	0.456	
GGCT	Gamma-glutamylcyclotransferase	0.581	

GHITM	Growth hormone inducible transmembrane protein	0.454	
GMPPB	GDP-mannose pyrophosphorylase B	0.46	
GOLGA1	Golgin A1	0.491	
GOLGB1	Golgin B1	0.503	
GRASP	GRP1 (general receptor for phosphoinositides 1)-associated scaffold protein	0.459	
GULP1	GULP, engulfment adaptor PTB domain containing 1	0.557	
HEBP2	Heme binding protein 2	0.92	
HEPACAM2	HEPACAM family member 2	0.461	
HIP1	Huntingtin interacting protein 1	0.457	√
HOPX	HOP homeobox	0.468	
HRAS	Harvey rat sarcoma viral oncogene homolog	0.463	√
HSPE1	Heat shock 10 kDa protein 1	0.532	
IFT80	Intraflagellar transport 80	0.451	
ING4	Inhibitor of growth family, member 4	0.516	
IRS1	Insulin receptor substrate 1	0.462	
JMJD1C	Jumonji domain containing 1C	0.497	
KCNA3	Potassium voltage-gated channel, shaker-related subfamily, member 3	0.486	
KCND3	Potassium voltage-gated channel, Shal-related subfamily, member 3	0.471	
KIAA0226	KIAA0226	0.471	
KIAA0895L	KIAA0895-like	0.493	
KSR2	Kinase suppressor of ras 2	0.478	
LAPTM4A	Lysosomal protein transmembrane 4a	0.468	
LDLRAD2	Low density lipoprotein receptor class A domain containing 2	0.459	
LGI2	Leucine-rich repeat LGI family, member 2	0.463	
LGMN	Legumain	0.513	
LMO3	LIM domain only 3 (rhombotin-like 2)	0.688	
LSM14B	LSM14B, SCD6 homolog B (<i>S. cerevisiae</i>)	0.538	
LYPD6	LY6/PLAUR domain containing 6	0.469	
MAPRE2	Microtubule-associated protein, RP/EB family, member 2	0.462	
MARK2	MAP/microtubule affinity-regulating kinase 2	0.475	
MCOLN3	Mucolipin 3	0.464	
MED1	Mediator complex subunit 1	0.584	
MEGF8	Multiple EGF-like-domains 8	0.461	

MIER3	Mesoderm induction early response 1, family member 3	0.5	
MKNK2	MAP kinase interacting serine/threonine kinase 2	0.532	
MMP16	Matrix metalloproteinase 16 (membrane-inserted)	0.504	
MPZL1	Myelin protein zero-like 1	0.473	
MRPS35	Mitochondrial ribosomal protein S35	0.684	
MSI2	Musashi RNA-binding protein 2	0.451	√
MTMR8	Myotubularin related protein 8	0.488	
MUSTN1	Musculoskeletal, embryonic nuclear protein 1	0.608	
NARG2	Interactor of little elongator complex ELL subunit 2	0.485	
NIPA1	Non imprinted in Prader-Willi/Angelman syndrome 1	0.485	
NKAIN1	Na ⁺ /K ⁺ transporting ATPase interacting 1	0.633	
NT5C3	5'-Nucleotidase, cytosolic IIIA	0.513	
NUB1	Negative regulator of ubiquitin-like proteins 1	0.498	
NUDT16	Nudix (nucleoside diphosphate linked moiety X)-type motif 16	0.454	
ODZ1	Teneurin transmembrane protein 1	0.471	
OLFM1	Olfactomedin 1	0.475	
OTUD6B	OTU domain containing 6B	0.512	
OXSM	3-Oxoacyl-ACP synthase, mitochondrial	0.453	
PALM2-AKAP2	PALM2-AKAP2 readthrough	0.525	
PAPLN	Papilin, proteoglycan-like sulfated glycoprotein	0.479	
PARP15	Poly (ADP-ribose) polymerase family, member 15	0.458	
PDE1B	Phosphodiesterase 1B, calmodulin-dependent	0.581	
PDE8B	Phosphodiesterase 8B	0.47	
PDGFD	Platelet derived growth factor D	0.454	
PDS5B	PDS5, regulator of cohesion maintenance, homolog B (<i>S. cerevisiae</i>)	0.492	
PIAS3	Protein inhibitor of activated STAT, 3	0.456	
PIM1	Pim-1 proto-oncogene, serine/threonine kinase	0.538	√
POU4F2	POU class 4 homeobox 2	0.588	
PPFIA4	Protein tyrosine phosphatase, receptor type, f polypeptide (PTPRF), interacting protein (lipri	0.467	
PPIL2	Peptidylprolyl isomerase (cyclophilin)-like 2	0.478	
PPP1CC	Protein phosphatase 1, catalytic subunit, gamma isozyme	0.482	
PPP2R5D	Protein phosphatase 2, regulatory subunit B', delta	0.517	

PRAMEF1	PRAME family member 1	0.528	
PRAMEF4	PRAME family member 4	0.624	
PRAMEF9	PRAME family member 9	0.624	
PSG4	Pregnancy specific b-1-glycoprotein 4	0.596	
PSMC5	Proteasome (prosome, macropain) 26S subunit, ATPase, 5	0.538	
PTPN5	Protein tyrosine phosphatase, non-receptor type 5 (striatum-enriched)	0.572	
RAB3B	RAB3B, member RAS oncogene family	0.581	
RABGEF1	RAB guanine nucleotide exchange factor (GEF) 1	0.603	
RAC2	Ras-related C3 botulinum toxin substrate 2 (rho family, small GTP binding protein Rac2)	0.547	
RASSF2	Ras association (RalGDS/AF-6) domain family member 2	0.519	
RBMY1A1	RNA binding motif protein, Y-linked, family 1, member A1	0.493	
RBMY1J	RNA-binding motif protein, Y chromosome, family 1 member F/J (Y chromosome RNA rec	0.466	
RC3H2	Ring finger and CCCH-type domains 2	0.629	
REPS2	RALBP1 associated Eps domain containing 2	0.453	
RGPD6	RANBP2-like and GRIP domain containing 6	0.673	
RNASEH2C	Ribonuclease H2, subunit C	0.49	
RNF165	Ring finger protein 165	0.528	
RP11-113D6.10	Solute carrier family 25, member 51 pseudogene	0.631	
RP11-51F16.8	RP11-51F16.8	0.512	
RPL14	Ribosomal protein L14	0.458	
RPTOR	Regulatory associated protein of MTOR, complex 1	0.461	
RUVBL1	RuvB-like AAA ATPase 1	0.564	
RYR2	Ryanodine receptor 2 (cardiac)	0.568	
SAMD12	Sterile alpha motif domain containing 12	0.462	
SCN2A	Sodium channel, voltage-gated, type II, alpha subunit	0.514	
SCNM1	Sodium channel modifier 1	0.529	
SCNN1D	Sodium channel, non-voltage-gated 1, delta subunit	0.464	
SCPEP1	Serine carboxypeptidase 1	0.474	
SEC14L4	SEC14-like 4 (<i>S. cerevisiae</i>)	0.456	
SENP1	SUMO1/sentrin specific peptidase 1	0.477	
SENP5	SUMO1/sentrin specific peptidase 5	0.463	
SKA1	Spindle and kinetochore associated complex subunit 1	0.482	
SLC26A4	Solute carrier family 26 (anion exchanger), member 4	0.479	

SLC38A7	Solute carrier family 38, member 7	0.487	
SLC6A6	Solute carrier family 6 (neurotransmitter transporter), member 6	0.513	
SLC7A11	Solute carrier family 7 (anionic amino acid transporter light chain, xc- system), member 11	0.63	
SMG1	SMG1 phosphatidylinositol 3-kinase-related kinase	0.499	
SNHG16	Small nucleolar RNA host gene 16 (non-protein coding)	0.616	
SPACA5B	Sperm acrosome associated 5B	0.483	
ST6GALNAC3	ST6 (a-N -acetyl-neuraminyl-2,3-b-galactosyl-1,3)-N -acetylgalactosaminide a-2,6-sialyltrans	0.467	
STT3B	STT3B, subunit of the oligosaccharyltransferase complex	0.464	
STX7	Syntaxin 7	0.454	
SURF4	Surfeit 4	0.486	
SYNPO2L	Synaptopodin 2-like	0.46	
SYTL2	Synaptotagmin-like 2	0.464	
TBC1D21	TBC1 domain family, member 21	0.462	
TBC1D28	TBC1 domain family, member 28	0.498	
TBX2	T-box 2	0.556	
TCP11L2	T-complex 11, testis-specific-like 2	0.5	
TEX261	Testis expressed 261	0.487	
TIRAP	Toll-interleukin 1 receptor (TIR) domain containing adaptor protein	0.49	
TLE4	Transducin-like enhancer of split 4	0.501	
TMEM138	Transmembrane protein 138	0.456	
TMEM194A	Transmembrane protein 194A	0.478	
TMEM248	Transmembrane protein 248	0.472	
TMEM80	Transmembrane protein 80	0.517	
TMOD3	Tropomodulin 3 (ubiquitous)	0.477	
TNFSF9	Tumor necrosis factor (ligand) superfamily, member 9	0.458	
TP53INP1	Tumor protein p53 inducible nuclear protein 1	0.492	
TRIO	Trio Rho guanine nucleotide exchange factor	0.472	
TRPV4	Transient receptor potential cation channel, subfamily V, member 4	0.481	
TSHR	Thyroid stimulating hormone receptor	0.506	√
TSPAN7	Tetraspanin 7	0.543	
TTC33	Tetratricopeptide repeat domain 33	0.506	
TTLL5	Tubulin tyrosine ligase-like family, member 5	0.495	
TUBA1C	LSM14B, SCD6 homolog B (<i>S. cerevisiae</i>)	0.537	

UBE2Q1	Ubiquitin-conjugating enzyme E2Q family member 1	0.464	
ULK3	Unc-51 like kinase 3	0.555	
UQCRB	Ubiquinol-cytochrome c reductase binding protein	0.456	
USP10	Ubiquitin specific peptidase 10	0.516	
USP6	Ubiquitin specific peptidase 6	0.503	√
VAMP7	Vesicle-associated membrane protein 7	0.455	
VPS33B	Vacuolar protein sorting 33 homolog B (yeast)	0.466	
VPS54	Vacuolar protein sorting 54 homolog (<i>S. cerevisiae</i>)	0.517	
WIF1	WNT inhibitory factor 1	0.518	√
WNT3	Wingless-type MMTV integration site family, member 3	0.478	
XPR1	Xenotropic and polytropic retrovirus receptor 1	0.516	
YIF1A	Yip1 interacting factor homolog A (<i>S. cerevisiae</i>)	0.464	
YIPF3	Yip1 domain family, member 3	0.515	
YSK4	Mitogen-activated protein kinase kinase kinase 19	0.468	
YY1	YY1 transcription factor	0.487	
ZDHHC14	Zinc finger, DHHC-type containing 14	0.519	
ZNF197	Zinc finger protein 197	0.464	
ZNF2	Zinc finger protein 2	0.554	
ZNF423	Zinc finger protein 423	0.523	
ZNF561	Zinc finger protein 561	0.496	
ZNF732	Zinc finger protein 732	0.493	
ZNF746	Zinc finger protein 746	0.514	
ZNF812	Zinc finger protein 812	0.48	

Supplementary Table 14. Predicted targets of hsa-miR-181a-3p by miRanda-mirSVR that are cancer genes.

Gene symbol	Full name
ABI2	Abl-interactor 1
ATM	ATM serine/threonine kinase
AXIN1	Axin 1
BCL11A	B-cell CLL/lymphoma 11A
BCL2	B-cell CLL/lymphoma 2
BTG1	B-cell translocation gene 1, anti-proliferative
CACNA1D	Calcium channel, voltage-dependent, L type, α 1D subunit
CASP8	Caspase 8, apoptosis-related cysteine peptidase
CDH1	Cadherin 1, type 1, E-cadherin (epithelial)
CDK12	Cyclin-dependent kinase 12
CEBPA	CCAAT/enhancer binding protein (C/EBP), α
CHCHD7	Coiled-coil-helix-coiled-coil-helix domain containing 7
CREB1	cAMP responsive element binding protein 1
CRTC3	CREB regulated transcription coactivator 3
DDB2	Damage-specific DNA binding protein 2, 48 kDa
DDX10	DEAD (Asp-Glu-Ala-Asp) box polypeptide 10
DNM2	Dynamin 2
DUX4	Double homeobox 4
EBF1	Early B-cell factor 1
EIF4A2	Eukaryotic translation initiation factor 4A2
ELL	Elongation factor RNA polymerase II
ETV6	Ets variant 6
EZH2	Enhancer of zeste 2 polycomb repressive complex 2 subunit
FOXP1	Forkhead box P1
GAS7	Growth arrest-specific 7
GATA3	GATA binding protein 3
GNA11	Guanine nucleotide binding protein (G protein), alpha 11 (Gq class)
GNAS	GNAS complex locus
HIP1	Huntingtin interacting protein 1

LMO1	LIM domain only 1 (rhombotin 1)
LPP	LIM domain containing preferred translocation partner in lipoma
MALAT1	Metastasis associated lung adenocarcinoma transcript 1 (non-protein coding)
MAX	MYC associated factor X
MKL1	Megakaryoblastic leukemia (translocation) 1
MLL3	Myeloid/lymphoid or mixed-lineage leukemia 3
MLLT1	Myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to, 1
MN1	Meningioma (disrupted in balanced translocation) 1
MSI2	Musashi RNA-binding protein 2
NF1	Neurofibromin 1
PAFAH1B2	Platelet-activating factor acetylhydrolase 1b, catalytic subunit 2 (30 kDa)
PAX5	Paired box 5
PAX7	Paired box 7
PDE4DIP	Phosphodiesterase 4D interacting protein
PER1	Period circadian clock 1
PIM1	Pim-1 proto-oncogene, serine/threonine kinase
PML	Promyelocytic leukemia
PTEN	Phosphatase and tensin homolog
RANBP17	RAN binding protein 17
RPL10	Ribosomal protein L10
SEPT6	Septin 6
SET	SET nuclear proto-oncogene
SETBP1	SET binding protein 1
SMARCE1	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily e, member 1
SS18L1	Synovial sarcoma translocation gene on chromosome 18-like 1
TAL1	T-cell acute lymphocytic leukemia 1
TBL1XR1	Transducin β -like 1 X-linked receptor 1
TCL6	T-cell leukemia/lymphoma 6 (non-protein coding)
TET2	Tet methylcytosine dioxygenase 2
TP53	Tumour protein p53

TSHR	Thyroid stimulating hormone receptor
TTL	Tubulin tyrosine ligase

Supplementary Table 15. Predicted targets of hsa-miR-181a-3p by miRDB.

Gene symbol	Full name	Target score	Cancer gene
ACAP2	ArfGAP with coiled-coil, ankyrin repeat and PH domains 2	51	×
ACTR3	ARP3 actin-related protein 3 homolog (yeast)	54	×
AFF2	AF4/FMR2 family, member 2	52	×
ALDH18A1	Aldehyde dehydrogenase 18 family, member A1	79	×
ALDH6A1	Aldehyde dehydrogenase 6 family, member A1	71	×
AP1S3	Adaptor-related protein complex 1, sigma 3 subunit	59	×
ARL4A	ADP-ribosylation factor-like 4A	58	×
ATP13A4	ATPase type 13A4	72	×
C14orf28	Chromosome 14 open reading frame 28	65	×
C16orf57	Chromosome 16 open reading frame 57	70	×
CFL2	Cofilin 2 (muscle)	63	×
CLEC2D	C-type lectin domain family 2, member D	53	×
H1F0	H1 histone family, member 0	59	×
KCTD12	Potassium channel tetramerisation domain containing 12	50	×
MIER1	Mesoderm induction early response 1 homolog (Xenopus laevis)	56	×
NIPA2	Non imprinted in Prader-Willi/Angelman syndrome 2	69	×
RABGEF1	RAB guanine nucleotide exchange factor (GEF) 1	50	×
RBM22	RNA binding motif protein 22	56	×
RHOBTB1	Rho-related BTB domain containing 1	62	×
RIBC1	RIB43A domain with coiled-coils 1	67	×
SLC20A2	Solute carrier family 20 (phosphate transporter), member 2	67	×
ZNF3	Zinc finger protein 3	62	×

Supplementary Table 16. Predicted targets of hsa-miR-181a-3p by RNA22 v2.

Gene symbol	Full name	Cancer gene
AAGAB	a and g-Adaptin binding protein	
ABCA1	ATP-binding cassette, sub-family A (ABC1), member 1	
ABCA13	ATP-binding cassette, sub-family A (ABC1), member 13	
ABCA6	ATP-binding cassette, sub-family A (ABC1), member 6	
ABCA9	ATP-binding cassette, sub-family A (ABC1), member 9	
ABCB6	ATP-binding cassette, sub-family B (MDR/TAP), member 6	
ABCC11	ATP-binding cassette, sub-family C (CFTR/MRP), member 11	
ABCC12	ATP-binding cassette, sub-family C (CFTR/MRP), member 12	
ABCC8	ATP-binding cassette, sub-family C (CFTR/MRP), member 8	
ABCC9	ATP-binding cassette, sub-family C (CFTR/MRP), member 9	
ABHD4	Abhydrolase domain containing 4	
ABI2	Abl-interactor 2	
ABL1	C-abl oncogene 1, non-receptor tyrosine kinase	√
ABL2	V-abl Abelson murine leukemia viral oncogene homolog 2	√
AC002472.13	Leucine-rich repeat-containing protein LOC400891	
AC004790.1		
AC005035.1		
AC008060.7	HCG2000720Hypothetical gene supported by AK054822Uncharacterized protein	
AC010536.2	Uncharacterized proteincdna FLJ45526 fis, clone BRTHA2027227	
AC016586.1		
AC018755.11	HCG2008157Uncharacterized proteincdna FLJ30403 fis, clone BRACE2008480	
AC020659.1	HCG1998685	
AC021218.2	Uncharacterized protein	
AC069257.9	Organic solute transporter subunit alpha	
AC092117.1	Uncharacterized proteincdna FLJ43818 fis, clone TESTI4001923	
AC092171.1	Uncharacterized proteincdna FLJ43318 fis, clone NT2RI2018311	
AC103810.1	Uncharacterized proteincdna FLJ60005, moderately similar to Homo sapiens pleckstrin homology domain	
AC104472.1	CDNA FLJ26134 fis, clone TMS03713Uncharacterized protein	
AC108134.1		
AC110781.3	Uncharacterized protein	
AC115618.1	Uncharacterized proteincdna FLJ26048 fis, clone PRS02384	
AC132186.2	CDNA FLJ27243 fis, clone SYN08134Uncharacterized protein	

ACAA1	Acetyl-CoA acyltransferase 1	
ACACB	Acetyl-CoA carboxylase beta	
ACAD10	Acyl-CoA dehydrogenase family, member 10	
ACAD9	Acyl-CoA dehydrogenase family, member 9	
ACADVL	Acyl-CoA dehydrogenase, very long chain	
ACCN4	Amiloride-sensitive cation channel 4, pituitary	
ACE	Angiotensin I converting enzyme (peptidyl-dipeptidase A) 1	
ACER3	Alkaline ceramidase 3	
ACLY	ATP citrate lyase	
ACN9	ACN9 homolog (<i>S. Cerevisiae</i>)	
ACOT11	Acyl-CoA thioesterase 11	
ACOX1	Acyl-CoA oxidase 1, palmitoyl	
ACRBP	Acrosin binding protein	
ACSBG1	Acyl-CoA synthetase bubblegum family member 1	
ACSF2	Acyl-CoA synthetase family member 2	
ACSL1	Acyl-CoA synthetase long-chain family member 1	
ACSS1	Acyl-CoA synthetase short-chain family member 1	
ACSS2	Acyl-CoA synthetase short-chain family member 2	
ACTR5	ARP5 actin-related protein 5 homolog (yeast)	
ACTR6	ARP6 actin-related protein 6 homolog (yeast)	
ACVR1	Activin A receptor, type I	
ACVR1B	Activin A receptor, type IB	
ACYP2	Acylphosphatase 2, muscle type	
ADAM15	ADAM metallopeptidase domain 15	
ADAM20	ADAM metallopeptidase domain 20	
ADAM29	ADAM metallopeptidase domain 29	
ADAM33	ADAM metallopeptidase domain 33	
ADAMTS1	ADAM metallopeptidase with thrombospondin type 1 motif, 1	
ADAMTS15	ADAM metallopeptidase with thrombospondin type 1 motif, 15	
ADAMTS16	ADAM metallopeptidase with thrombospondin type 1 motif, 16	
ADAMTS18	ADAM metallopeptidase with thrombospondin type 1 motif, 18	
ADAMTS8	ADAM metallopeptidase with thrombospondin type 1 motif, 8	
ADAMTS9	ADAM metallopeptidase with thrombospondin type 1 motif, 9	
ADAMTSL1	ADAMTS-like 1	
ADAMTSL2	ADAMTS-like 2	
ADAMTSL3	ADAMTS-like 3	

ADAR	Adenosine deaminase, RNA-specific	
ADCK1	aarf domain containing kinase 1	
ADCK3	aarf domain containing kinase 3	
ADCK5	aarf domain containing kinase 5	
ADCY3	Adenylate cyclase 3	
ADCY6	Adenylate cyclase 6	
ADNP	Activity-dependent neuroprotector homeobox	
ADNP2	ADNP homeobox 2	
ADORA1	Adenosine A1 receptor	
ADPRH	ADP-ribosylarginine hydrolase	
ADPRHL2	ADP-ribosylhydrolase like 2	
ADRA2B	Adrenergic, alpha-2B-, receptor	
ADSL	Adenylosuccinate lyase	
AES	Amino-terminal enhancer of split	
AFF2	AF4/FMR2 family, member 2	
AFF4	AF4/FMR2 family, member 4	
AGAP2	Arfgap with gtpase domain, ankyrin repeat and PH domain 2	
AGBL1	ATP/GTP binding protein-like 1	
AGBL4	ATP/GTP binding protein-like 4	
AGPAT4	1-Acylglycerol-3-phosphate <i>O</i> -acyltransferase 4 (lysophosphatidic acid acyltransferase, delta)	
AGPAT6	1-Acylglycerol-3-phosphate <i>O</i> -acyltransferase 6 (lysophosphatidic acid acyltransferase, zeta)	
AGPS	Alkylglycerone phosphate synthase	
AGRN	Agrin	
AHNAK2	AHNAK nucleoprotein 2	
AIF1L	Allograft inflammatory factor 1-like	
AIFM2	Apoptosis-inducing factor, mitochondrion-associated, 2	
AIP	Aryl hydrocarbon receptor interacting protein	
AIPL1	Aryl hydrocarbon receptor interacting protein-like 1	
AIRE	Autoimmune regulator	
AK1	Adenylate kinase 1	
AK7	Adenylate kinase 7	
AKAP13	A kinase (PRKA) anchor protein 13	
AKAP2	A kinase (PRKA) anchor protein 2	
AKAP3	A kinase (PRKA) anchor protein 3	
AKAP6	A kinase (PRKA) anchor protein 6	
AKAP9	A kinase (PRKA) anchor protein (yotiao) 9	√

AKD1	Adenylate kinase domain containing 1	
AKT1	V-akt murine thymoma viral oncogene homolog 1	√
AKT2	V-akt murine thymoma viral oncogene homolog 2	√
AL356356.1	Uncharacterized protein	
ALAD	Aminolevulinate dehydratase	
ALAS2	Aminolevulinate, delta-, synthase 2	
ALDH1A1	Aldehyde dehydrogenase 1 family, member A1	
ALDH2	Aldehyde dehydrogenase 2 family (mitochondrial)	√
ALDH5A1	Aldehyde dehydrogenase 5 family, member A1	
ALDOC	Aldolase C, fructose-bisphosphate	
ALG11	Asparagine-linked glycosylation 11, alpha-1,2-mannosyltransferase homolog (yeast)	
ALG5	Asparagine-linked glycosylation 5, dolichyl-phosphate β -glucosyltransferase homolog (<i>S. Cerevisiae</i>)	
ALOX5	Arachidonate 5-lipoxygenase	
ALS2CL	ALS2 C-terminal like	
ALS2CR8	Amyotrophic lateral sclerosis 2 (juvenile) chromosome region, candidate 8	
ALX4	ALX homeobox 4	
AMBP	Alpha-1-microglobulin/bikunin precursor	
AMBRA1	Autophagy/beclin-1 regulator 1	
AMIGO3	Adhesion molecule with Ig-like domain 3	
AMPD2	Adenosine monophosphate deaminase 2	
AMPH	Amphiphysin	
ANAPC5	Anaphase promoting complex subunit 5	
ANGEL1	Angel homolog 1 (<i>Drosophila</i>)	
ANGPTL2	Angiopoietin-like 2	
ANGPTL3	Angiopoietin-like 3	
ANGPTL7	Angiopoietin-like 7	
ANK2	Ankyrin 2, neuronal	
ANKH	Ankylosis, progressive homolog (mouse)	
ANKIB1	Ankyrin repeat and IBR domain containing 1	
ANKLE2	Ankyrin repeat and LEM domain containing 2	
ANKMY2	Ankyrin repeat and MYND domain containing 2	
ANKRD16	Ankyrin repeat domain 16	
ANKRD24	Ankyrin repeat domain 24	
ANKRD52	Ankyrin repeat domain 52	
ANKRD57	Ankyrin repeat domain 57	
ANKS1A	Ankyrin repeat and sterile alpha motif domain containing 1A	

ANKS6	Ankyrin repeat and sterile alpha motif domain containing 6	
ANP32B	Acidic (leucine-rich) nuclear phosphoprotein 32 family, member B	
ANPEP	Alanyl (membrane) aminopeptidase	
ANXA8	Annexin A8	
ANXA8L1	Annexin A8-like 1	
AP2A2	Adaptor-related protein complex 2, alpha 2 subunit	
AP3B1	Adaptor-related protein complex 3, beta 1 subunit	
APC2	Adenomatosis polyposis coli 2	
APCDD1L	Adenomatosis polyposis coli down-regulated 1-like	
APEH	<i>N</i> -acylaminoacyl-peptide hydrolase	
APLN	Apelin	
APOL1	Apolipoprotein L, 1	
APOL2	Apolipoprotein L, 2	
APOL3	Apolipoprotein L, 3	
APOL5	Apolipoprotein L, 5	
APOPT1	Apoptogenic 1	
APP	Amyloid beta (A4) precursor protein	
APPL2	Adaptor protein, phosphotyrosine interaction, PH domain and leucine zipper containing 2	
AQP10	Aquaporin 10	
AQP4	Aquaporin 4	
ARAF	V-raf murine sarcoma 3611 viral oncogene homolog	
ARAP2	Arfgap with rhogap domain, ankyrin repeat and PH domain 2	
ARAP3	Arfgap with rhogap domain, ankyrin repeat and PH domain 3	
ARG2	Arginase, type II	
ARHGAP20	Rho gtpase activating protein 20	
ARHGAP26	Rho gtpase activating protein 26	
ARHGAP31	Rho gtpase activating protein 31	
ARHGAP4	Rho gtpase activating protein 4	
ARHGAP44	Rho gtpase activating protein 44	
ARHGAP9	Rho gtpase activating protein 9	
ARHGEF10L	Rho guanine nucleotide exchange factor (GEF) 10-like	
ARHGEF16	Rho guanine nucleotide exchange factor (GEF) 16	
ARHGEF18	Rho/Rac guanine nucleotide exchange factor (GEF) 18	
ARHGEF2	Rho/Rac guanine nucleotide exchange factor (GEF) 2	
ARHGEF25	Rho guanine nucleotide exchange factor (GEF) 25	
ARHGEF26	Rho guanine nucleotide exchange factor (GEF) 26	

ARHGEF40	Rho guanine nucleotide exchange factor (GEF) 40	
ARHGEF6	Rac/Cdc42 guanine nucleotide exchange factor (GEF) 6	
ARID1A	AT rich interactive domain 1A (SWI-like)	√
ARID2	AT rich interactive domain 2 (ARID, RFX-like)	√
ARID5B	AT rich interactive domain 5B (MRF1-like)	
ARL10	ADP-ribosylation factor-like 10	
ARL2BP	ADP-ribosylation factor-like 2 binding protein	
ARMC10	Armadillo repeat containing 10	
ARMCX4	Armadillo repeat containing, X-linked 4	
ARNT2	Aryl-hydrocarbon receptor nuclear translocator 2	
ARPC5L	Actin related protein 2/3 complex, subunit 5-like	
ARPP21	cAMP-regulated phosphoprotein, 21kda	
ARSI	Arylsulfatase family, member I	
ART1	ADP-ribosyltransferase 1	
ASB17	Ankyrin repeat and SOCS box containing 17	
ASB4	Ankyrin repeat and SOCS box containing 4	
ASCC3	Activating signal cointegrator 1 complex subunit 3	
ASH1L	Ash1 (absent, small, or homeotic)-like (Drosophila)	
ASMTL	Acetylserotonin O-methyltransferase-like	
ASPM	Asp (abnormal spindle) homolog, microcephaly associated (Drosophila)	
ASTN1	Astrotactin 1	
ASXL1	Additional sex combs like 1 (Drosophila)	√
ATAD2B	ATPase family, AAA domain containing 2B	
ATAD5	ATPase family, AAA domain containing 5	
ATCAY	Ataxia, cerebellar, Cayman type	
ATF6B	Activating transcription factor 6 beta	
ATG12	ATG12 autophagy related 12 homolog (<i>S. Cerevisiae</i>)	
ATG14	ATG14 autophagy related 14 homolog (<i>S. Cerevisiae</i>)	
ATG16L1	ATG16 autophagy related 16-like 1 (<i>S. Cerevisiae</i>)	
ATG2B	ATG2 autophagy related 2 homolog B (<i>S. Cerevisiae</i>)	
ATG4D	ATG4 autophagy related 4 homolog D (<i>S. Cerevisiae</i>)	
ATHL1	ATH1, acid trehalase-like 1 (yeast)	
ATP10A	ATPase, class V, type 10A	
ATP10B	ATPase, class V, type 10B	
ATP1A1	ATPase, Na ⁺ /K ⁺ transporting, alpha 1 polypeptide	√
ATP1A2	ATPase, Na ⁺ /K ⁺ transporting, alpha 2 polypeptide	

ATP1A3	ATPase, Na ⁺ /K ⁺ transporting, alpha 3 polypeptide	
ATP4B	ATPase, H ⁺ /K ⁺ exchanging, beta polypeptide	
ATP6AP1L	ATPase, H ⁺ transporting, lysosomal accessory protein 1-like	
ATP6V0A1	ATPase, H ⁺ transporting, lysosomal V0 subunit a1	
ATP6V0A2	ATPase, H ⁺ transporting, lysosomal V0 subunit a2	
ATP6V1E1	ATPase, H ⁺ transporting, lysosomal 31kda, V1 subunit E1	
ATP7B	ATPase, Cu ⁺⁺ transporting, beta polypeptide	
ATP8A2	ATPase, aminophospholipid transporter, class I, type 8A, member 2	
ATP8B1	ATPase, aminophospholipid transporter, class I, type 8B, member 1	
ATP8B4	ATPase, class I, type 8B, member 4	
ATP9B	ATPase, class II, type 9B	
ATRIP	ATR interacting protein	
ATXN3	Ataxin 3	
AUTS2	Autism susceptibility candidate 2	
AXIN1	Axin 1	√
B3GNT1	UDP-glcnac:betagal beta-1,3- <i>N</i> -acetylglucosaminyltransferase 1	
B3GNT7	UDP-glcnac:betagal beta-1,3- <i>N</i> -acetylglucosaminyltransferase 7	
B3GNT8	UDP-glcnac:betagal beta-1,3- <i>N</i> -acetylglucosaminyltransferase 8	
B4GALNT1	Beta-1,4- <i>N</i> -acetyl-galactosaminyl transferase 1	
B4GALNT2	Beta-1,4- <i>N</i> -acetyl-galactosaminyl transferase 2	
B4GALNT4	Beta-1,4- <i>N</i> -acetyl-galactosaminyl transferase 4	
B4GALT3	UDP-Gal:betaglcnac beta 1,4- galactosyltransferase, polypeptide 3	
B4GALT6	UDP-Gal:betaglcnac beta 1,4- galactosyltransferase, polypeptide 6	
B9D2	B9 protein domain 2	
BACH2	BTB and CNC homology 1, basic leucine zipper transcription factor 2	
BAG6	BCL2-associated athanogene 6	
BAIAP2L1	Brain-specific angiogenesis inhibitor 1-associated protein 2-like protein 1	
BAIAP2L2	BAI1-associated protein 2-like 2	
BAK1	BCL2-antagonist/killer 1	
BAZ2A	Bromodomain adjacent to zinc finger domain, 2A	
BBS2	Bardet-Biedl syndrome 2	
BCAN	Brevican	
BCAS3	Breast carcinoma amplified sequence 3	
BCAT1	Branched chain amino-acid transaminase 1, cytosolic	
BCKDHA	Branched chain keto acid dehydrogenase E1, alpha polypeptide	
BCL6	B-cell CLL/lymphoma 6	√

BCL7A	B-cell CLL/lymphoma 7A	√
BCL9L	B-cell CLL/lymphoma 9-like	
BCO2	Beta-carotene oxygenase 2	
BCR	Breakpoint cluster region	√
BCS1L	BCS1-like (<i>S. Cerevisiae</i>)	
BDH1	3-hydroxybutyrate dehydrogenase, type 1	
BDKRB2	Bradykinin receptor B2	
BDP1	B double prime 1, subunit of RNA polymerase III transcription initiation factor IIIB	
BEAN1	Brain expressed, associated with NEDD4, 1	
BEST1	Bestrophin 1	
BEST3	Bestrophin 3	
BFSP2	Beaded filament structural protein 2, phakinin	
BHLHE22	Basic helix-loop-helix family, member e22	
BIRC6	Baculoviral IAP repeat containing 6	
BLK	B lymphoid tyrosine kinase	
BLNK	B-cell linker	
BLZF1	Basic leucine zipper nuclear factor 1	
BMPR1B	Bone morphogenetic protein receptor, type IB	
BOD1L	Biorientation of chromosomes in cell division 1-like	
BOLA3	Bola homolog 3 (<i>E. Coli</i>)	
BPNT1	3'(2'), 5'-bisphosphate nucleotidase 1	
BRAT1	BRCA1-associated ATM activator 1	
BRD1	Bromodomain containing 1	
BRD3	Bromodomain containing 3	√
BRF2	BRF2, subunit of RNA polymerase III transcription initiation factor, BRF1-like	
BRI3BP	BRI3 binding protein	
BRSK1	BR serine/threonine kinase 1	
BRWD1	Bromodomain and WD repeat domain containing 1	
BSN	Bassoon (presynaptic cytomatrix protein)	
BSND	Bartter syndrome, infantile, with sensorineural deafness (Barttin)	
BTA1F1	BTA1F1 RNA polymerase II, B-TFIID transcription factor-associated, 170kda (Mot1 homolog, <i>S. Cerevisiae</i>)	
BTK	Bruton agammaglobulinemia tyrosine kinase	
BTN2A2	Butyrophilin, subfamily 2, member A2	
BVES	Blood vessel epicardial substance	
BZRAP1	Benzodiazapine receptor (peripheral) associated protein 1	
BZW2	Basic leucine zipper and W2 domains 2	

C10orf112	Chromosome 10 open reading frame 112	
C10orf32	Chromosome 10 open reading frame 32	
C10orf55	Chromosome 10 open reading frame 55	
C10orf76	Chromosome 10 open reading frame 76	
C11orf2	Chromosome 11 open reading frame 2	
C11orf41	Chromosome 11 open reading frame 41	
C11orf48	Chromosome 11 open reading frame 48	
C11orf65	Chromosome 11 open reading frame 65	
C11orf70	Chromosome 11 open reading frame 70	
C11orf9	Chromosome 11 open reading frame 9	
C12orf35	Chromosome 12 open reading frame 35	
C12orf51	Chromosome 12 open reading frame 51	
C12orf66	Chromosome 12 open reading frame 66	
C12orf76	Chromosome 12 open reading frame 76	
C14orf132	Chromosome 14 open reading frame 132	
C14orf144	Chromosome 14 open reading frame 144	
C14orf180	Chromosome 14 open reading frame 180	
C14orf21	Chromosome 14 open reading frame 21	
C14orf43	Chromosome 14 open reading frame 43	
C15orf27	Chromosome 15 open reading frame 27	
C15orf42	Chromosome 15 open reading frame 42	
C15orf55	Chromosome 15 open reading frame 55	
C15orf57	Chromosome 15 open reading frame 57	
C15orf58	Chromosome 15 open reading frame 58	
C16orf45	Chromosome 16 open reading frame 45	
C16orf58	Chromosome 16 open reading frame 58	
C16orf62	Chromosome 16 open reading frame 62	
C17orf39	Chromosome 17 open reading frame 39	
C17orf59	Chromosome 17 open reading frame 59	
C17orf63	Chromosome 17 open reading frame 63	
C17orf70	Chromosome 17 open reading frame 70	
C17orf75	Chromosome 17 open reading frame 75	
C18orf34	Chromosome 18 open reading frame 34	
C18orf63	Chromosome 18 open reading frame 63	
C19orf12	Chromosome 19 open reading frame 12	
C19orf2	Chromosome 19 open reading frame 2	

C19orf39	Chromosome 19 open reading frame 39	
C19orf54	Chromosome 19 open reading frame 54	
C19orf59	Chromosome 19 open reading frame 59	
C19orf6	Chromosome 19 open reading frame 6	
C19orf66	Chromosome 19 open reading frame 66	
C1orf134	Chromosome 1 open reading frame 134	
C1orf145	Chromosome 1 open reading frame 145	
C1orf147	Chromosome 1 open reading frame 147	
C1orf150	Chromosome 1 open reading frame 150	
C1orf167	Chromosome 1 open reading frame 167	
C1orf168	Chromosome 1 open reading frame 168	
C1orf170	Chromosome 1 open reading frame 170	
C1orf173	Chromosome 1 open reading frame 173	
C1orf187	Chromosome 1 open reading frame 187	
C1orf191	Chromosome 1 open reading frame 191	
C1orf21	Chromosome 1 open reading frame 21	
C1orf50	Chromosome 1 open reading frame 50	
C1orf55	Chromosome 1 open reading frame 55	
C1orf85	Chromosome 1 open reading frame 85	
C1orf87	Chromosome 1 open reading frame 87	
C1orf9	Chromosome 1 open reading frame 9	
C1orf93	Chromosome 1 open reading frame 93	
C1orf94	Chromosome 1 open reading frame 94	
C1QBP	Complement component 1, q subcomponent binding protein	
C1S	Complement component 1, s subcomponent	
C2	Complement component 2	
C20orf26	Chromosome 20 open reading frame 26	
C20orf7	Chromosome 20 open reading frame 7	
C22orf13	Chromosome 22 open reading frame 13	
C22orf26	Chromosome 22 open reading frame 26	
C22orf28	Chromosome 22 open reading frame 28	
C22orf46	Chromosome 22 open reading frame 46	
C2CD2	C2 calcium-dependent domain containing 2	
C2CD3	C2 calcium-dependent domain containing 3	
C2orf16	Chromosome 2 open reading frame 16	
C2orf50	Chromosome 2 open reading frame 50	

C3	Complement component 3	
C3AR1	Complement component 3a receptor 1	
C3orf25	Chromosome 3 open reading frame 25	
C3orf52	Chromosome 3 open reading frame 52	
C3orf62	Chromosome 3 open reading frame 62	
C3orf64	Chromosome 3 open reading frame 64	
C3orf71	Chromosome 3 open reading frame 71	
C5orf41	Chromosome 5 open reading frame 41	
C5orf54	Chromosome 5 open reading frame 54	
C5orf62	Chromosome 5 open reading frame 62	
C6orf1	Chromosome 6 open reading frame 1	
C6orf10	Chromosome 6 open reading frame 10	
C6orf106	Chromosome 6 open reading frame 106	
C6orf130	Chromosome 6 open reading frame 130	
C6orf132	Chromosome 6 open reading frame 132	
C6orf136	Chromosome 6 open reading frame 136	
C6orf154	Chromosome 6 open reading frame 154	
C6orf174	Chromosome 6 open reading frame 174	
C6orf222	Chromosome 6 open reading frame 222	
C6orf35	Chromosome 6 open reading frame 35	
C6orf48	Chromosome 6 open reading frame 48	
C6orf62	Chromosome 6 open reading frame 62	
C7orf26	Chromosome 7 open reading frame 26	
C7orf28B	Chromosome 7 open reading frame 28B	
C7orf44	Chromosome 7 open reading frame 44	
C7orf58	Chromosome 7 open reading frame 58	
C9orf100	Chromosome 9 open reading frame 100	
C9orf11	Chromosome 9 open reading frame 11	
C9orf131	Chromosome 9 open reading frame 131	
C9orf139	Chromosome 9 open reading frame 139	
C9orf163	Chromosome 9 open reading frame 163	
C9orf174	Chromosome 9 open reading frame 174	
C9orf25	Chromosome 9 open reading frame 25	
C9orf3	Chromosome 9 open reading frame 3	
C9orf35	Chromosome 9 open reading frame 35	
C9orf82	Chromosome 9 open reading frame 82	

C9orf93	Chromosome 9 open reading frame 93	
C9orf96	Chromosome 9 open reading frame 96	
CA10	Carbonic anhydrase X	
CABLES1	Cdk5 and Abl enzyme substrate 1	
CACNA1B	Calcium channel, voltage-dependent, N type, alpha 1B subunit	
CACNA1C	Calcium channel, voltage-dependent, L type, alpha 1C subunit	
CACNA1F	Calcium channel, voltage-dependent, L type, alpha 1F subunit	
CACNA2D1	Calcium channel, voltage-dependent, alpha 2/delta subunit 1	
CACNB2	Calcium channel, voltage-dependent, beta 2 subunit	
CACNB3	Calcium channel, voltage-dependent, beta 3 subunit	
CAD	Carbamoyl-phosphate synthetase 2, aspartate transcarbamylase, and dihydroorotase	
CADPS	Ca ⁺⁺ -dependent secretion activator	
CALM1	Calmodulin 1 (phosphorylase kinase, delta)	
CALML6	Calmodulin-like 6	
CAMK1D	Calcium/calmodulin-dependent protein kinase ID	
CAMK2B	Calcium/calmodulin-dependent protein kinase II beta	
CAMK4	Calcium/calmodulin-dependent protein kinase IV	
CAMSAP1	Calmodulin regulated spectrin-associated protein 1	
CAMTA2	Calmodulin binding transcription activator 2	
CAP1	CAP, adenylate cyclase-associated protein 1 (yeast)	
CAPG	Capping protein (actin filament), gelsolin-like	
CAPN11	Calpain 11	
CAPN12	Calpain 12	
CAPN13	Calpain 13	
CARD10	Caspase recruitment domain family, member 10	
CARM1	Coactivator-associated arginine methyltransferase 1	
CASD1	CAS1 domain containing 1	
CASKIN2	CASK interacting protein 2	
CASS4	Cas scaffolding protein family member 4	
CAST	Calpastatin	
CASZ1	Castor zinc finger 1	
CATSPER2	Cation channel, sperm associated 2	
CATSPERG	Cation channel, sperm-associated, gamma	
CBFA2T2	Core-binding factor, runt domain, alpha subunit 2; translocated to, 2	
CBLN2	Cerebellin 2 precursor	
CBS	Cystathionine-beta-synthase	

CBWD3	COBW domain containing 3	
CBWD5	COBW domain containing 5	
CBWD6	COBW domain containing 6	
CBX5	Chromobox homolog 5	
CBX7	Chromobox homolog 7	
CCDC117	Coiled-coil domain containing 117	
CCDC129	Coiled-coil domain containing 129	
CCDC134	Coiled-coil domain containing 134	
CCDC137	Coiled-coil domain containing 137	
CCDC142	Coiled-coil domain containing 142	
CCDC144A	Coiled-coil domain containing 144A	
CCDC144NL	Coiled-coil domain containing 144 family, N-terminal like	
CCDC152	Coiled-coil domain containing 152	
CCDC155	Coiled-coil domain containing 155	
CCDC157	Coiled-coil domain containing 157	
CCDC158	Coiled-coil domain containing 158	
CCDC165	Coiled-coil domain containing 165	
CCDC168	Coiled-coil domain containing 168	
CCDC22	Coiled-coil domain containing 22	
CCDC37	Coiled-coil domain containing 37	
CCDC40	Coiled-coil domain containing 40	
CCDC64	Coiled-coil domain containing 64	
CCDC67	Coiled-coil domain containing 67	
CCDC69	Coiled-coil domain containing 69	
CCDC71	Coiled-coil domain containing 71	
CCDC88C	Coiled-coil domain containing 88C	
CCNB1IP1	Cyclin B1 interacting protein 1, E3 ubiquitin protein ligase	√
CCND2	Cyclin D2	√
CCNL2	Cyclin L2	
CCT4	Chaperonin containing TCP1, subunit 4 (delta)	
CCZ1	CCZ1 vacuolar protein trafficking and biogenesis associated homolog (<i>S. Cerevisiae</i>)	
CD101	CD101 molecule	
CD22	CD22 molecule	
CD247	CD247 molecule	
CD40	CD40 molecule, TNF receptor superfamily member 5	
CD5	CD5 molecule	

CD55	CD55 molecule, decay accelerating factor for complement (Cromer blood group)	
CD8B	CD8b molecule	
CDC40	Cell division cycle 40 homolog (<i>S. Cerevisiae</i>)	
CDC42BPA	CDC42 binding protein kinase alpha (DMPK-like)	
CDC42BPG	CDC42 binding protein kinase gamma (DMPK-like)	
CDC5L	CDC5 cell division cycle 5-like (<i>S. Pombe</i>)	
CDCP2	CUB domain containing protein 2	
CDH12	Cadherin 12, type 2 (N-cadherin 2)	
CDH16	Cadherin 16, KSP-cadherin	
CDH18	Cadherin 18, type 2	
CDH23	Cadherin-related 23	
CDH24	Cadherin 24, type 2	
CDHR3	Cadherin-related family member 3	
CDK13	Cyclin-dependent kinase 13	
CDK5RAP2	CDK5 regulatory subunit associated protein 2	
CDK6	Cyclin-dependent kinase 6	√
CDON	Cdon homolog (mouse)	
CDT1	Chromatin licensing and DNA replication factor 1	
CEACAM21	Carcinoembryonic antigen-related cell adhesion molecule 21	
CECR6	Cat eye syndrome chromosome region, candidate 6	
CELSR2	Cadherin, EGF LAG seven-pass G-type receptor 2 (flamingo homolog, <i>Drosophila</i>)	
CELSR3	Cadherin, EGF LAG seven-pass G-type receptor 3 (flamingo homolog, <i>Drosophila</i>)	
CENPK	Centromere protein K	
CEP120	Centrosomal protein 120 kDa	
CEP170	Centrosomal protein 170 kDa	
CEP192	Centrosomal protein 192 kDa	
CEP63	Centrosomal protein 63 kDa	
CEP68	Centrosomal protein 68 kDa	
CEP85	Centrosomal protein 85 kDa	
CEP89	Centrosomal protein 89 kDa	
CERCAM	Cerebral endothelial cell adhesion molecule	
CERS6	Ceramide synthase 6	
CFH	Complement factor H	
CFHR5	Complement factor H-related 5	
CFI	Complement factor I	
CFLAR	CASP8 and FADD-like apoptosis regulator	

CFP	Complement factor properdin	
CGN	Cingulin	
CGNL1	Cingulin-like 1	
CHAF1A	Chromatin assembly factor 1, subunit A (p150)	
CHCHD5	Coiled-coil-helix-coiled-coil-helix domain containing 5	
CHD1	Chromodomain helicase DNA binding protein 1	
CHD2	Chromodomain helicase DNA binding protein 2	
CHD3	Chromodomain helicase DNA binding protein 3	
CHD7	Chromodomain helicase DNA binding protein 7	
CHDH	Choline dehydrogenase	
CHEK2	CHK2 checkpoint homolog (<i>S. Pombe</i>)	√
CHGB	Chromogranin B (secretogranin 1)	
CHMP1A	Charged multivesicular body protein 1A	
CHMP1B	Charged multivesicular body protein 1B	
CHMP4C	Charged multivesicular body protein 4C	
CHPF	Chondroitin polymerizing factor	
CHRD	Chordin	
CHRNA2	Cholinergic receptor, nicotinic, alpha 2 (neuronal)	
CHRNA5	Cholinergic receptor, nicotinic, alpha 5	
CHRNB1	Cholinergic receptor, nicotinic, beta 1 (muscle)	
CHST15	Carbohydrate (N-acetylgalactosamine 4-sulfate 6-O) sulfotransferase 15	
CHSY1	Chondroitin sulfate synthase 1	
CHUK	Conserved helix-loop-helix ubiquitous kinase	
CIRBP	Cold inducible RNA binding protein	
CKAP2L	Cytoskeleton associated protein 2-like	
CLASP2	Cytoplasmic linker associated protein 2	
CLC	Charcot-Leyden crystal protein	
CLCF1	Cardiotrophin-like cytokine factor 1	
CLCN3	Chloride channel 3	
CLCN4	Chloride channel 4	
CLDN15	Claudin 15	
CLDN18	Claudin 18	
CLDN19	Claudin 19	
CLDN5	Claudin 5	
CLDN9	Claudin 9	
CLDND2	Claudin domain containing 2	

CLEC2B	C-type lectin domain family 2, member B	
CLEC5A	C-type lectin domain family 5, member A	
CLIC6	Chloride intracellular channel 6	
CLIP1	CAP-GLY domain containing linker protein 1	
CLIP2	CAP-GLY domain containing linker protein 2	
CLIP3	CAP-GLY domain containing linker protein 3	
CLIP4	CAP-GLY domain containing linker protein family, member 4	
CLN8	Ceroid-lipofuscinosis, neuronal 8 (epilepsy, progressive with mental retardation)	
CLPP	Clpp caseinolytic peptidase, ATP-dependent, proteolytic subunit homolog (<i>E. Coli</i>)	
CLPTM1	Cleft lip and palate associated transmembrane protein 1	
CLPTM1L	CLPTM1-like	
CLSTN1	Calsyntenin 1	
CLSTN3	Calsyntenin 3	
CMAS	Cytidine monophosphate <i>N</i> -acetylneuraminic acid synthetase	
CMBL	Carboxymethylenebutenolidase homolog (<i>Pseudomonas</i>)	
CMKLR1	Chemokine-like receptor 1	
CNBP	CCHC-type zinc finger, nucleic acid binding protein	
CNGA4	Cyclic nucleotide gated channel alpha 4	
CNGB1	Cyclic nucleotide gated channel beta 1	
CNKSR2	Connector enhancer of kinase suppressor of Ras 2	
CNN2	Calponin 2	
CNNM2	Cyclin M2	
CNOT6L	CCR4-NOT transcription complex, subunit 6-like	
CNPY2	Canopy 2 homolog (zebrafish)	
CNR2	Cannabinoid receptor 2 (macrophage)	
CNTN2	Contactin 2 (axonal)	
CNTRL	Centriolin	
COBL	Cordon-bleu homolog (mouse)	
COG1	Component of oligomeric golgi complex 1	
COG4	Component of oligomeric golgi complex 4	
COG5	Component of oligomeric golgi complex 5	
COG7	Component of oligomeric golgi complex 7	
COL11A1	Collagen, type XI, alpha 1	
COL12A1	Collagen, type XII, alpha 1	
COL14A1	Collagen, type XIV, alpha 1	
COL17A1	Collagen, type XVII, alpha 1	

COL18A1	Collagen, type XVIII, alpha 1	
COL1A2	Collagen, type I, alpha 2	
COL22A1	Collagen, type XXII, alpha 1	
COL27A1	Collagen, type XXVII, alpha 1	
COL3A1	Collagen, type III, alpha 1	
COL4A1	Collagen, type IV, alpha 1	
COL4A3	Collagen, type IV, alpha 3 (Goodpasture antigen)	
COL4A6	Collagen, type IV, alpha 6	
COL9A2	Collagen, type IX, alpha 2	
COLEC10	Collectin sub-family member 10 (C-type lectin)	
COLEC12	Collectin sub-family member 12	
COPA	Coatomer protein complex, subunit alpha	
COPS7A	COP9 constitutive photomorphogenic homolog subunit 7A (Arabidopsis)	
COPS7B	COP9 constitutive photomorphogenic homolog subunit 7B (Arabidopsis)	
COQ6	Coenzyme Q6 homolog, monooxygenase (<i>S. Cerevisiae</i>)	
CORIN	Corin, serine peptidase	
CORO1A	Coronin, actin binding protein, 1A	
CORO2B	Coronin, actin binding protein, 2B	
CORO6	Coronin 6	
COX19	COX19 cytochrome c oxidase assembly homolog (<i>S. Cerevisiae</i>)	
CPA2	Carboxypeptidase A2 (pancreatic)	
CPAMD8	C3 and PZP-like, alpha-2-macroglobulin domain containing 8	
CPEB2	Cytoplasmic polyadenylation element binding protein 2	
CPNE4	Copine IV	
CPNE5	Copine V	
CPNE6	Copine VI (neuronal)	
CPZ	Carboxypeptidase Z	
CR1L	Complement component (3b/4b) receptor 1-like	
CREB1	Camp responsive element binding protein 1	√
CRHR2	Corticotropin releasing hormone receptor 2	
CRIPT	Cysteine-rich PDZ-binding protein	
CRISPLD1	Cysteine-rich secretory protein LCCL domain containing 1	
CRLS1	Cardiolipin synthase 1	
CRY2	Cryptochrome 2 (photolyase-like)	
CRYGA	Crystallin, gamma A	
CS	Citrate synthase	

CSE1L	CSE1 chromosome segregation 1-like (yeast)	
CSF1	Colony stimulating factor 1 (macrophage)	
CSF1R	Colony stimulating factor 1 receptor	
CSGALNACT1	Chondroitin sulfate N-acetylgalactosaminyltransferase 1	
CSMD3	CUB and Sushi multiple domains 3	
CSNK2B	Casein kinase 2, beta polypeptide	
CSPG4	Chondroitin sulfate proteoglycan 4	
CSRP2BP	CSRP2 binding protein	
CSTB	Cystatin B (stefin B)	
CSTF2	Cleavage stimulation factor, 3' pre-RNA, subunit 2, 64 kDa	
CTB-134H23.1	Nuclear pore complex-interacting protein-like 1	
CTCF	CCCTC-binding factor (zinc finger protein)	
CTDSP1	CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 1	
CTDSPL	CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase-like	
CTH	Cystathionase (cystathionine gamma-lyase)	
CTIF	CBP80/20-dependent translation initiation factor	
CTNNB1	Catenin (cadherin-associated protein), beta 1, 88 kDa	√
CTNND1	Catenin (cadherin-associated protein), delta 1	
CTRC	Chymotrypsin C (caldecrin)	
CTSA	Cathepsin A	
CTSB	Cathepsin B	
CTSD	Cathepsin D	
CTU2	Cytosolic thiouridylase subunit 2 homolog (<i>S. Pombe</i>)	
CUBN	Cubilin (intrinsic factor-cobalamin receptor)	
CUEDC1	CUE domain containing 1	
CUL1	Cullin 1	
CUL5	Cullin 5	
CUX2	Cut-like homeobox 2	
CXCL3	Chemokine (C-X-C motif) ligand 3	
CXCR6	Chemokine (C-X-C motif) receptor 6	
CYCS	Cytochrome c, somatic	
CYFIP1	Cytoplasmic FMR1 interacting protein 1	
CYFIP2	Cytoplasmic FMR1 interacting protein 2	
CYLD	Cylindromatosis (turban tumor syndrome)	√
CYP11A1	Cytochrome P450, family 11, subfamily A, polypeptide 1	
CYP1A1	Cytochrome P450, family 1, subfamily A, polypeptide 1	

CYP7A1	Cytochrome P450, family 7, subfamily A, polypeptide 1	
D2HGDH	D-2-hydroxyglutarate dehydrogenase	
DAAM2	Dishevelled associated activator of morphogenesis 2	
DAG1	Dystroglycan 1 (dystrophin-associated glycoprotein 1)	
DAGLB	Diacylglycerol lipase, beta	
DAPK1	Death-associated protein kinase 1	
DARC	Duffy blood group, chemokine receptor	
DBC1	Deleted in bladder cancer 1	
DBF4B	DBF4 homolog B (<i>S. Cerevisiae</i>)	
DBNL	Drebrin-like	
DCAF10	DDB1 and CUL4 associated factor 10	
DCAF12	DDB1 and CUL4 associated factor 12	
DCAF12L1	DDB1 and CUL4 associated factor 12-like 1	
DCLK2	Doublecortin-like kinase 2	
DCP2	DCP2 decapping enzyme homolog (<i>S. Cerevisiae</i>)	
DCTN4	Dynactin 4 (p62)	
DCX	Doublecortin	
DDB1	Damage-specific DNA binding protein 1, 127 kDa	
DDB2	Damage-specific DNA binding protein 2, 48 kDa	√
DDC	Dopa decarboxylase (aromatic L-amino acid decarboxylase)	
DDIT4	DNA-damage-inducible transcript 4	
DDN	Dendrin	
DDX11	DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 11	
DDX19A	DEAD (Asp-Glu-Ala-As) box polypeptide 19A	
DDX20	DEAD (Asp-Glu-Ala-Asp) box polypeptide 20	
DDX23	DEAD (Asp-Glu-Ala-Asp) box polypeptide 23	
DDX26B	DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 26B	
DDX39B	DEAD (Asp-Glu-Ala-Asp) box polypeptide 39B	
DDX52	DEAD (Asp-Glu-Ala-Asp) box polypeptide 52	
DDX54	DEAD (Asp-Glu-Ala-Asp) box polypeptide 54	
DDX58	DEAD (Asp-Glu-Ala-Asp) box polypeptide 58	
DEDD	Death effector domain containing	
DENND2C	DENN/MADD domain containing 2C	
DEPDC5	DEP domain containing 5	
DES	Desmin	
DEXI	Dexi homolog (mouse)	

DGCR14	Digeorge syndrome critical region gene 14	
DGCR8	Digeorge syndrome critical region gene 8	
DGKA	Diacylglycerol kinase, alpha 80 kDa	
DGKB	Diacylglycerol kinase, beta 90 kDa	
DGKD	Diacylglycerol kinase, delta 130 kDa	
DGKG	Diacylglycerol kinase, gamma 90 kDa	
DHPS	Deoxyhypusine synthase	
DHRS7	Dehydrogenase/reductase (SDR family) member 7	
DHRSX	Dehydrogenase/reductase (SDR family) X-linked	
DHX16	DEAH (Asp-Glu-Ala-His) box polypeptide 16	
DHX30	DEAH (Asp-Glu-Ala-His) box polypeptide 30	
DHX35	DEAH (Asp-Glu-Ala-His) box polypeptide 35	
DHX40	DEAH (Asp-Glu-Ala-His) box polypeptide 40	
DIAPH1	Diaphanous homolog 1 (Drosophila)	
DIDO1	Death inducer-obliterator 1	
DISP1	Dispatched homolog 1 (Drosophila)	
DKK3	Dickkopf homolog 3 (<i>Xenopus laevis</i>)	
DLEC1	Deleted in lung and esophageal cancer 1	
DLG2	Discs, large homolog 2 (Drosophila)	
DLG3	Discs, large homolog 3 (Drosophila)	
DLG4	Discs, large homolog 4 (Drosophila)	
DLGAP2	Discs, large (Drosophila) homolog-associated protein 2	
DLGAP3	Discs, large (Drosophila) homolog-associated protein 3	
DLL1	Delta-like 1 (Drosophila)	
DMKN	Dermokine	
DMPK	Dystrophia myotonica-protein kinase	
DMRTA1	DMRT-like family A1	
DMTF1	Cyclin D binding myb-like transcription factor 1	
DMWD	Dystrophia myotonica, WD repeat containing	
DNAH11	Dynein, axonemal, heavy chain 11	
DNAH12	Dynein, axonemal, heavy chain 12	
DNAH14	Dynein, axonemal, heavy chain 14	
DNAH2	Dynein, axonemal, heavy chain 2	
DNAJB12	Dnaj (Hsp40) homolog, subfamily B, member 12	
DNAJB5	Dnaj (Hsp40) homolog, subfamily B, member 5	
DNAJB7	Dnaj (Hsp40) homolog, subfamily B, member 7	

DNAJC16	Dnaj (Hsp40) homolog, subfamily C, member 16	
DNAJC18	Dnaj (Hsp40) homolog, subfamily C, member 18	
DNAJC6	Dnaj (Hsp40) homolog, subfamily C, member 6	
DNAJC9	Dnaj (Hsp40) homolog, subfamily C, member 9	
DNALI1	Dynein, axonemal, light intermediate chain 1	
DNM3	Dynamamin 3	
DNMT3A	DNA (cytosine-5-)-methyltransferase 3 alpha	√
DOCK5	Dedicator of cytokinesis 5	
DOCK6	Dedicator of cytokinesis 6	
DOCK8	Dedicator of cytokinesis 8	
DPEP1	Dipeptidase 1 (renal)	
DPF1	D4, zinc and double PHD fingers family 1	
DPP6	Dipeptidyl-peptidase 6	
DPP9	Dipeptidyl-peptidase 9	
DPY19L3	Dpy-19-like 3 (<i>C. Elegans</i>)	
DPYSL5	Dihydropyrimidinase-like 5	
DSCAM	Down syndrome cell adhesion molecule	
DSE	Dermatan sulfate epimerase	
DSEL	Dermatan sulfate epimerase-like	
DSG4	Desmoglein 4	
DSP	Desmoplakin	
DSPP	Dentin sialophosphoprotein	
DST	Dystonin	
DSTYK	Dual serine/threonine and tyrosine protein kinase	
DTD1	D-tyrosyl-trna deacylase 1 homolog (<i>S. Cerevisiae</i>)	
DTWD2	DTW domain containing 2	
DTYMK	Deoxythymidylate kinase (thymidylate kinase)	
DUS4L	Dihydrouridine synthase 4-like (<i>S. Cerevisiae</i>)	
DUSP18	Dual specificity phosphatase 18	
DUSP21	Dual specificity phosphatase 21	
DUSP27	Dual specificity phosphatase 27 (putative)	
DUSP6	Dual specificity phosphatase 6	
DVL1	Dishevelled, dsh homolog 1 (<i>Drosophila</i>)	
DYNC1H1	Dynein, cytoplasmic 1, heavy chain 1	
DYNC1LI2	Dynein, cytoplasmic 1, light intermediate chain 2	
DYNC2H1	Dynein, cytoplasmic 2, heavy chain 1	

DYNLT1	Dynein, light chain, Tctex-type 1	
DYRK1A	Dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 1A	
DYRK1B	Dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 1B	
DYX1C1-	DYX1C1-CCPG1 readthrough (non-protein coding)	
DZIP3	DAZ interacting protein 3, zinc finger	
EAF1	ELL associated factor 1	
EARS2	Glutamyl-trna synthetase 2, mitochondrial (putative)	
EBF3	Early B-cell factor 3	
ECI1	Enoyl-coa delta isomerase 1	
EED	Embryonic ectoderm development	
EFCAB3	EF-hand calcium binding domain 3	
EFCAB5	EF-hand calcium binding domain 5	
EFCAB8	EF-hand calcium binding domain 8	
EFS	Embryonal Fyn-associated substrate	
EGF	Epidermal growth factor	
EHBP1	EH domain binding protein 1	
EHBP1L1	EH domain binding protein 1-like 1	
EHMT1	Euchromatic histone-lysine N-methyltransferase 1	
EID2B	EP300 interacting inhibitor of differentiation 2B	
EIF2AK1	Eukaryotic translation initiation factor 2-alpha kinase 1	
EIF2AK2	Eukaryotic translation initiation factor 2-alpha kinase 2	
EIF2AK4	Eukaryotic translation initiation factor 2 alpha kinase 4	
EIF2C1	Eukaryotic translation initiation factor 2C, 1	
EIF2C4	Eukaryotic translation initiation factor 2C, 4	
EIF3D	Eukaryotic translation initiation factor 3, subunit D	
EIF3E	Eukaryotic translation initiation factor 3, subunit E	
EIF3F	Eukaryotic translation initiation factor 3, subunit F	
EIF3L	Eukaryotic translation initiation factor 3, subunit L	
EIF4E3	Eukaryotic translation initiation factor 4E family member 3	
EIF4G1	Eukaryotic translation initiation factor 4 gamma, 1	
EIF4G2	Eukaryotic translation initiation factor 4 gamma, 2	
ELF1	E74-like factor 1 (ets domain transcription factor)	
ELK1	ELK1, member of ETS oncogene family	
ELK4	ELK4, ETS-domain protein (SRF accessory protein 1)	√
ELMO1	Engulfment and cell motility 1	
ELMOD1	ELMO/CED-12 domain containing 1	

EMILIN2	Elastin microfibril interfacier 2	
EML3	Echinoderm microtubule associated protein like 3	
EMR1	Egf-like module containing, mucin-like, hormone receptor-like 1	
EN1	Engrailed homeobox 1	
ENDOD1	Endonuclease domain containing 1	
ENPP6	Ectonucleotide pyrophosphatase/phosphodiesterase 6	
ENSA	Endosulfine alpha	
ENTHD1	ENTH domain containing 1	
EP400	E1A binding protein p400	
EP400NL	EP400 N-terminal like	
EPAS1	Endothelial PAS domain protein 1	
EPB41L1	Erythrocyte membrane protein band 4.1-like 1	
EPC1	Enhancer of polycomb homolog 1 (Drosophila)	
EPHA1	EPH receptor A1	
EPHA3	EPH receptor A3	
EPHA5	EPH receptor A5	
EPHA8	EPH receptor A8	
EPHB1	EPH receptor B1	
EPHB4	EPH receptor B4	
EPN2	Epsin 2	
EPS15	Epidermal growth factor receptor pathway substrate 15	√
EPS15L1	Epidermal growth factor receptor pathway substrate 15-like 1	
ERAP2	Endoplasmic reticulum aminopeptidase 2	
ERBB3	V-erb-b2 erythroblastic leukemia viral oncogene homolog 3 (avian)	
ERCC8	Excision repair cross-complementing rodent repair deficiency, complementation group 8	
EREG	Epiregulin	
ERI3	ERI1 exoribonuclease family member 3	
ERLIN1	ER lipid raft associated 1	
ERMAP	Erythroblast membrane-associated protein (Scianna blood group)	
ERMN	Ermin, ERM-like protein	
ERN1	Endoplasmic reticulum to nucleus signaling 1	
ERO1LB	ERO1-like beta (<i>S. Cerevisiae</i>)	
ESAM	Endothelial cell adhesion molecule	
ESCO1	Establishment of cohesion 1 homolog 1 (<i>S. Cerevisiae</i>)	
ESF1	ESF1, nucleolar pre-rna processing protein, homolog (<i>S. Cerevisiae</i>)	
ESM1	Endothelial cell-specific molecule 1	

ESRP2	Epithelial splicing regulatory protein 2	
ETFDH	Electron-transferring-flavoprotein dehydrogenase	
ETNK2	Ethanolamine kinase 2	
ETS1	V-ets erythroblastosis virus E26 oncogene homolog 1 (avian)	
ETS2	V-ets erythroblastosis virus E26 oncogene homolog 2 (avian)	
EVC	Ellis van Creveld syndrome	
EVPL	Envoplakin	
EVX1	Even-skipped homeobox 1	
EXOC3L1	Exocyst complex component 3-like 1	
EXOSC3	Exosome component 3	
EXOSC9	Exosome component 9	
F11	Coagulation factor XI	
F2RL3	Coagulation factor II (thrombin) receptor-like 3	
FABP5	Fatty acid binding protein 5 (psoriasis-associated)	
FADS2	Fatty acid desaturase 2	
FAIM2	Fas apoptotic inhibitory molecule 2	
FAM101B	Family with sequence similarity 101, member B	
FAM105A	Family with sequence similarity 105, member A	
FAM105B	Family with sequence similarity 105, member B	
FAM111B	Family with sequence similarity 111, member B	
FAM114A1	Family with sequence similarity 114, member A1	
FAM115A	Family with sequence similarity 115, member A	
FAM118A	Family with sequence similarity 118, member A	
FAM118B	Family with sequence similarity 118, member B	
FAM125B	Family with sequence similarity 125, member B	
FAM129A	Family with sequence similarity 129, member A	
FAM134A	Family with sequence similarity 134, member A	
FAM134B	Family with sequence similarity 134, member B	
FAM160A1	Family with sequence similarity 160, member A1	
FAM164C	Family with sequence similarity 164, member C	
FAM166B	Family with sequence similarity 166, member B	
FAM167A	Family with sequence similarity 167, member A	
FAM168B	Family with sequence similarity 168, member B	
FAM170B	Family with sequence similarity 170, member B	
FAM171A2	Family with sequence similarity 171, member A2	
FAM179A	Family with sequence similarity 179, member A	

FAM181A	Family with sequence similarity 181, member A	
FAM183A	Family with sequence similarity 183, member A	
FAM186B	Family with sequence similarity 186, member B	
FAM189B	Family with sequence similarity 189, member B	
FAM190B	Family with sequence similarity 190, member B	
FAM201A	Family with sequence similarity 201, member A	
FAM26E	Family with sequence similarity 26, member E	
FAM27D1	Protein FAM27D1	
FAM3A	Family with sequence similarity 3, member A	
FAM53B	Family with sequence similarity 53, member B	
FAM57A	Family with sequence similarity 57, member A	
FAM63B	Family with sequence similarity 63, member B	
FAM65A	Family with sequence similarity 65, member A	
FAM65C	Family with sequence similarity 65, member C	
FAM71F2	Family with sequence similarity 71, member F2	
FAM75D1	Family with sequence similarity 75, member D1	
FAM78A	Family with sequence similarity 78, member A	
FAM82A2	Family with sequence similarity 82, member A2	
FAM83G	Family with sequence similarity 83, member G	
FAM84A	Family with sequence similarity 84, member A	
FAM86A	Family with sequence similarity 86, member A	
FAM9B	Family with sequence similarity 9, member B	
FANCA	Fanconi anemia, complementation group A	√
FANCC	Fanconi anemia, complementation group C	√
FAP	Fibroblast activation protein, alpha	
FAR2	Fatty acyl coa reductase 2	
FARP1	FERM, rhogef (ARHGEF) and pleckstrin domain protein 1 (chondrocyte-derived)	
FARP2	FERM, rhogef and pleckstrin domain protein 2	
FASTKD1	FAST kinase domains 1	
FAT2	FAT tumor suppressor homolog 2 (Drosophila)	
FAT3	FAT tumor suppressor homolog 3 (Drosophila)	
FAT4	FAT tumor suppressor homolog 4 (Drosophila)	
FBL	Fibrillarin	
FBLIM1	Filamin binding LIM protein 1	
FBLN1	Fibulin 1	
FBN1	Fibrillin 1	

FBN3	Fibrillin 3	
FBRSL1	Fibrosin-like 1	
FBXL20	F-box and leucine-rich repeat protein 20	
FBXO10	F-box protein 10	
FBXO16	F-box protein 16	
FBXO44	F-box protein 44	
FBXO48	F-box protein 48	
FBXO8	F-box protein 8	
FBXO9	F-box protein 9	
FBXW11	F-box and WD repeat domain containing 11	
FCHSD1	FCH and double SH3 domains 1	
FCRL5	Fc receptor-like 5	
FCRLA	Fc receptor-like A	
FDFT1	Farnesyl-diphosphate farnesyltransferase 1	
FEN1	Flap structure-specific endonuclease 1	
FER	Fer (fps/fes related) tyrosine kinase	
FER1L6	Fer-1-like 6 (<i>C. Elegans</i>)	
FETUB	Fetuin B	
FEZ2	Fasciculation and elongation protein zeta 2 (zygin II)	
FGD4	FYVE, rhogef and PH domain containing 4	
FGD5	FYVE, rhogef and PH domain containing 5	
FGF12	Fibroblast growth factor 12	
FGF23	Fibroblast growth factor 23	
FGFR2	Fibroblast growth factor receptor 2	√
FGL2	Fibrinogen-like 2	
FHAD1	Forkhead-associated (FHA) phosphopeptide binding domain 1	
FHL2	Four and a half LIM domains 2	
FHL3	Four and a half LIM domains 3	
FHOD3	Formin homology 2 domain containing 3	
FITM2	Fat storage-inducing transmembrane protein 2	
FKBP14	FK506 binding protein 14, 22 kDa	
FKBP8	FK506 binding protein 8, 38 kDa	
FLG	Filaggrin	
FLNC	Filamin C, gamma	
FLOT2	Flotillin 2	
FLRT2	Fibronectin leucine rich transmembrane protein 2	

FLT4	Fms-related tyrosine kinase 4	
FLVCR1	Feline leukemia virus subgroup C cellular receptor 1	
FLYWCH1	FLYWCH-type zinc finger 1	
FMN2	Formin 2	
FMNL3	Formin-like 3	
FMO1	Flavin containing monooxygenase 1	
FNIP1	Folliculin interacting protein 1	
FNIP2	Folliculin interacting protein 2	
FOSL2	FOS-like antigen 2	
FOXP1	Forkhead box P1	√
FOXS1	Forkhead box S1	
FRAS1	Fraser syndrome 1	
FRAT1	Frequently rearranged in advanced T-cell lymphomas	
FRG1B	FSHD region gene 1 family, member B	
FRMD3	FERM domain containing 3	
FRMD4B	FERM domain containing 4B	
FRYL	FRY-like	
FSCN1	Fascin homolog 1, actin-bundling protein (<i>Strongylocentrotus purpuratus</i>)	
FSD2	Fibronectin type III and SPRY domain containing 2	
FTMT	Ferritin mitochondrial	
FTO	Fat mass and obesity associated	
FUBP3	Far upstream element (FUSE) binding protein 3	
FUS	Fused in sarcoma	√
FUT10	Fucosyltransferase 10 (alpha (1,3) fucosyltransferase)	
FUT2	Fucosyltransferase 2 (secretor status included)	
G2E3	G2/M-phase specific E3 ubiquitin protein ligase	
G3BP2	Gtpase activating protein (SH3 domain) binding protein 2	
G6PD	Glucose-6-phosphate dehydrogenase	
GAA	Glucosidase, alpha; acid	
GAB2	GRB2-associated binding protein 2	
GABPB2	GA binding protein transcription factor, beta subunit 2	
GABRE	Gamma-aminobutyric acid (GABA) A receptor, epsilon	
GAD1	Glutamate decarboxylase 1 (brain, 67 kDa)	
GAL3ST1	Galactose-3-O-sulfotransferase 1	
GALK1	Galactokinase 1	
GALNS	Galactosamine (N-acetyl)-6-sulfate sulfatase	

GALNT13	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 13 (galnac-T13)	
GALNT14	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 14 (galnac-T14)	
GALNTL1	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase-like 1	
GALNTL4	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase-like 4	
GALT	Galactose-1-phosphate uridylyltransferase	
GAPDH	Glyceraldehyde-3-phosphate dehydrogenase	
GAPDHS	Glyceraldehyde-3-phosphate dehydrogenase, spermatogenic	
GAPT	GRB2-binding adaptor protein, transmembrane	
GAR1	GAR1 ribonucleoprotein homolog (yeast)	
GART	Phosphoribosylglycinamide formyltransferase, phosphoribosylglycinamide synthetase,	
GAS1	Growth arrest-specific 1	
GATAD2A	GATA zinc finger domain containing 2A	
GATAD2B	GATA zinc finger domain containing 2B	
GBX1	Gastrulation brain homeobox 1	
GCC1	GRIP and coiled-coil domain containing 1	
GCOM1	GRINL1A complex locus	
GDE1	Glycerophosphodiester phosphodiesterase 1	
GDF10	Growth differentiation factor 10	
GDF5OS	Growth differentiation factor 5 opposite strand	
GDI2	GDP dissociation inhibitor 2	
GET4	Golgi to ER traffic protein 4 homolog (<i>S. Cerevisiae</i>)	
GFM1	G elongation factor, mitochondrial 1	
GFOD1	Glucose-fructose oxidoreductase domain containing 1	
GFRA1	GDNF family receptor alpha 1	
GFRA2	GDNF family receptor alpha 2	
GGA1	Golgi-associated, gamma adaptin ear containing, ARF binding protein 1	
GGT1	Gamma-glutamyltransferase 1	
GGT5	Gamma-glutamyltransferase 5	
GGTLC1	Gamma-glutamyltransferase light chain 1	
GIMAP1	Gtpase, IMAP family member 1	
GINS4	GINS complex subunit 4 (Sld5 homolog)	
GIPC1	GIPC PDZ domain containing family, member 1	
GIT1	G protein-coupled receptor kinase interacting arfgap 1	
GJC1	Gap junction protein, gamma 1, 45 kDa	
GK2	Glycerol kinase 2	
GLB1L2	Galactosidase, beta 1-like 2	

GLIPR2	GLI pathogenesis-related 2	
GLIS2	GLIS family zinc finger 2	
GLRA3	Glycine receptor, alpha 3	
GLRX	Glutaredoxin (thioltransferase)	
GLRX5	Glutaredoxin 5	
GLS	Glutaminase	
GLT25D1	Glycosyltransferase 25 domain containing 1	
GLTSCR1	Glioma tumor suppressor candidate region gene 1	
GLTSCR2	Glioma tumor suppressor candidate region gene 2	
GLYCTK	Glycerate kinase	
GMEB1	Glucocorticoid modulatory element binding protein 1	
GMEB2	Glucocorticoid modulatory element binding protein 2	
GMPPB	GDP-mannose pyrophosphorylase B	
GNA13	Guanine nucleotide binding protein (G protein), alpha 13	
GNAS	GNAS complex locus	√
GNL1	Guanine nucleotide binding protein-like 1	
GNL3	Guanine nucleotide binding protein-like 3 (nucleolar)	
GNPDA1	Glucosamine-6-phosphate deaminase 1	
GOLGA3	Golgin A3	
GOLGA6L9	Golgin A6 family-like 9	
GOLGA7B	Golgin A7 family, member B	
GOLM1	Golgi membrane protein 1	
GOLT1A	Golgi transport 1A	
GORASP2	Golgi reassembly stacking protein 2, 55 kDa	
GP1BA	Glycoprotein Ib (platelet), alpha polypeptide	
GP5	Glycoprotein V (platelet)	
GPATCH1	G patch domain containing 1	
GPATCH4	G patch domain containing 4	
GPR1	G protein-coupled receptor 1	
GPR108	G protein-coupled receptor 108	
GPR116	G protein-coupled receptor 116	
GPR126	G protein-coupled receptor 126	
GPR135	G protein-coupled receptor 135	
GPR144	G protein-coupled receptor 144	
GPR148	G protein-coupled receptor 148	
GPR162	G protein-coupled receptor 162	

GPR176	G protein-coupled receptor 176	
GPR37	G protein-coupled receptor 37 (endothelin receptor type B-like)	
GPR62	G protein-coupled receptor 62	
GPR64	G protein-coupled receptor 64	
GPR78	G protein-coupled receptor 78	
GPR98	G protein-coupled receptor 98	
GPRASP1	G protein-coupled receptor associated sorting protein 1	
GPRASP2	G protein-coupled receptor associated sorting protein 2	
GPRIN2	G protein regulated inducer of neurite outgrowth 2	
GRAP2	GRB2-related adaptor protein 2	
GRB2	Growth factor receptor-bound protein 2	
GRIK1	Glutamate receptor, ionotropic, kainate 1	
GRIK3	Glutamate receptor, ionotropic, kainate 3	
GRIK4	Glutamate receptor, ionotropic, kainate 4	
GRIN1	Glutamate receptor, ionotropic, <i>N</i> -methyl D-aspartate 1	
GRIN2A	Glutamate receptor, ionotropic, <i>N</i> -methyl D-aspartate 2A	
GRIN2C	Glutamate receptor, ionotropic, <i>N</i> -methyl D-aspartate 2C	
GRM4	Glutamate receptor, metabotropic 4	
GRN	Granulin	
GSN	Gelsolin	
GTF2A1	General transcription factor IIA, 1, 19/37 kDa	
GTF2A2	General transcription factor IIA, 2, 12kda	
GTF2H4	General transcription factor IIIH, polypeptide 4, 52kda	
GTF2IRD1	GTF2I repeat domain containing 1	
GTF2IRD2B	GTF2I repeat domain containing 2B	
GTPBP10	GTP-binding protein 10 (putative)	
GUCY2D	Guanylate cyclase 2D, membrane (retina-specific)	
GUF1	GUF1 gtpase homolog (<i>S. Cerevisiae</i>)	
GXYLT1	Glucoside xylosyltransferase 1	
GYLTL1B	Glycosyltransferase-like 1B	
H1FOO	H1 histone family, member O, oocyte-specific	
H1FX	H1 histone family, member X	
HABP2	Hyaluronan binding protein 2	
HADHA	Hydroxyacyl-coa dehydrogenase/3-ketoacyl-coa thiolase/enoyl-coa hydratase (trifunctional protein), alpha	
HAPLN2	Hyaluronan and proteoglycan link protein 2	
HAPLN4	Hyaluronan and proteoglycan link protein 4	

HARS	Histidyl-trna synthetase	
HAUS3	HAUS augmin-like complex, subunit 3	
HAUS6	HAUS augmin-like complex, subunit 6	
HCAR1	Hydroxycarboxylic acid receptor 1	
HCFC2	Host cell factor C2	
HCN4	Hyperpolarization activated cyclic nucleotide-gated potassium channel 4	
HDAC2	Histone deacetylase 2	
HDAC4	Histone deacetylase 4	
HDAC6	Histone deacetylase 6	
HDAC7	Histone deacetylase 7	
HDAC9	Histone deacetylase 9	
HDLBP	High density lipoprotein binding protein	
HEATR1	HEAT repeat containing 1	
HEATR2	HEAT repeat containing 2	
HEATR5B	HEAT repeat containing 5B	
HECA	Headcase homolog (Drosophila)	
HECTD2	HECT domain containing 2	
HECTD3	HECT domain containing 3	
HEG1	HEG homolog 1 (zebrafish)	
HEMK1	Hemk methyltransferase family member 1	
HEPACAM2	HEPACAM family member 2	
HERC1	Hect (homologous to the E6-AP (UBE3A) carboxyl terminus) domain and RCC1 (CHC1)-like domain (RLD) 1	
HERC2	Hect domain and RLD 2	
HERC3	Hect domain and RLD 3	
HERC6	Hect domain and RLD 6	
HGFAC	HGF activator	
HGS	Hepatocyte growth factor-regulated tyrosine kinase substrate	
HGSNAT	Heparan-alpha-glucosaminide N-acetyltransferase	
HIP1	Huntingtin interacting protein 1	√
HIPK3	Homeodomain interacting protein kinase 3	
HIPK4	Homeodomain interacting protein kinase 4	
HIST1H4H	Histone cluster 1, H4h	
HIVEP3	Human immunodeficiency virus type I enhancer binding protein 3	
HK3	Hexokinase 3 (white cell)	
HLA-A	Major histocompatibility complex, class I, A	
HLA-B	Major histocompatibility complex, class I, B	

HLA-DRB5	Major histocompatibility complex, class II, DR beta 5	
HLA-E	Major histocompatibility complex, class I, E	
HLA-G	Major histocompatibility complex, class I, G	
HLCS	Holocarboxylase synthetase (biotin-(propionyl-coa-carboxylase (ATP-hydrolysing)) ligase)	
HLF	Hepatic leukemia factor	√
HMBS	Hydroxymethylbilane synthase	
HMCN1	Hemicentin 1	
HMGA2	High mobility group AT-hook 2	√
HMGB4	High mobility group box 4	
HMMR	Hyaluronan-mediated motility receptor (RHAMM)	
HMX2	H6 family homeobox 2	
HN1	Hematological and neurological expressed 1	
HN1L	Hematological and neurological expressed 1-like	
HNF4A	Hepatocyte nuclear factor 4, alpha	
HNF4G	Hepatocyte nuclear factor 4, gamma	
HNRNPA1L2	Heterogeneous nuclear ribonucleoprotein A1-like 2	
HNRNPR	Heterogeneous nuclear ribonucleoprotein R	
HOGA1	4-hydroxy-2-oxoglutarate aldolase 1	
HOMER3	Homer homolog 3 (Drosophila)	
HOXA10	Homeobox A10	
HOXD11	Homeobox D11	√
HOXD3	Homeobox D3	
HP1BP3	Heterochromatin protein 1, binding protein 3	
HPCA	Hippocalcin	
HPS1	Hermansky-Pudlak syndrome 1	
HPS4	Hermansky-Pudlak syndrome 4	
HRASLS2	HRAS-like suppressor 2	
HRASLS5	HRAS-like suppressor family, member 5	
HRH1	Histamine receptor H1	
HRH2	Histamine receptor H2	
HS2ST1	Heparan sulfate 2-O-sulfotransferase 1	
HSD17B13	Hydroxysteroid (17-beta) dehydrogenase 13	
HSD17B7	Hydroxysteroid (17-beta) dehydrogenase 7	
HSPA12A	Heat shock 70 kDa protein 12A	
HSPA4	Heat shock 70 kDa protein 4	
HSPA9	Heat shock 70 kDa protein 9 (mortalin)	

HSPB3	Heat shock 27 kDa protein 3	
HSPG2	Heparan sulfate proteoglycan 2	
HTATSF1	HIV-1 Tat specific factor 1	
HTR4	5-hydroxytryptamine (serotonin) receptor 4	
HTRA4	Htra serine peptidase 4	
HUNK	Hormonally up-regulated Neu-associated kinase	
HUWE1	HECT, UBA and WWE domain containing 1	
HVCN1	Hydrogen voltage-gated channel 1	
HYAL4	Hyaluronoglucosaminidase 4	
IAH1	Isoamyl acetate-hydrolyzing esterase 1 homolog (<i>S. Cerevisiae</i>)	
IBA57	IBA57, iron-sulfur cluster assembly homolog (<i>S. Cerevisiae</i>)	
ICAM4	Intercellular adhesion molecule 4 (Landsteiner-Wiener blood group)	
ICOSLG	Inducible T-cell co-stimulator ligand	
IDE	Insulin-degrading enzyme	
IDS	Iduronate 2-sulfatase	
IFITM10	Interferon induced transmembrane protein 10	
IFT122	Intraflagellar transport 122 homolog (<i>Chlamydomonas</i>)	
IFT140	Intraflagellar transport 140 homolog (<i>Chlamydomonas</i>)	
IGDCC4	Immunoglobulin superfamily, DCC subclass, member 4	
IGF1R	Insulin-like growth factor 1 receptor	
IGFBP3	Insulin-like growth factor binding protein 3	
IGFBP5	Insulin-like growth factor binding protein 5	
IGFBPL1	Insulin-like growth factor binding protein-like 1	
IGSF5	Immunoglobulin superfamily, member 5	
IKBKG	Inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase gamma	
IKZF3	IKAROS family zinc finger 3 (<i>Aiolos</i>)	
IL11RA	Interleukin 11 receptor, alpha	
IL12RB1	Interleukin 12 receptor, beta 1	
IL13RA1	Interleukin 13 receptor, alpha 1	
IL13RA2	Interleukin 13 receptor, alpha 2	
IL17A	Interleukin 17A	
IL17C	Interleukin 17C	
IL17RE	Interleukin 17 receptor E	
IL17REL	Interleukin 17 receptor E-like	
IL1R1	Interleukin 1 receptor, type I	
IL1RAP	Interleukin 1 receptor accessory protein	

IL1RL1	Interleukin 1 receptor-like 1	
IL20RA	Interleukin 20 receptor, alpha	
IL27RA	Interleukin 27 receptor, alpha	
IL2RA	Interleukin 2 receptor, alpha	
IL32	Interleukin 32	
IL6R	Interleukin 6 receptor	
IL7R	Interleukin 7 receptor	√
INCENP	Inner centromere protein antigens 135/155 kDa	
ING3	Inhibitor of growth family, member 3	
INHBA	Inhibin, beta A	
INHBE	Inhibin, beta E	
INMT	Indolethylamine N-methyltransferase	
INPP4A	Inositol polyphosphate-4-phosphatase, type I, 107kda	
INPPL1	Inositol polyphosphate phosphatase-like 1	
INSR	Insulin receptor	
INTS1	Integrator complex subunit 1	
INTS5	Integrator complex subunit 5	
IPO9	Importin 9	
IQCB1	IQ motif containing B1	
IQCE	IQ motif containing E	
IQGAP3	IQ motif containing gtpase activating protein 3	
IQUB	IQ motif and ubiquitin domain containing	
IRF1	Interferon regulatory factor 1	
IRGQ	Immunity-related gtpase family, Q	
ISLR	Immunoglobulin superfamily containing leucine-rich repeat	
ITFG2	Integrin alpha FG-GAP repeat containing 2	
ITGA10	Integrin, alpha 10	
ITGA2B	Integrin, alpha 2b (platelet glycoprotein iib of iib/iiia complex, antigen CD41)	
ITGA9	Integrin, alpha 9	
ITGAE	Integrin, alpha E (antigen CD103, human mucosal lymphocyte antigen 1; alpha polypeptide)	
ITGB2	Integrin, beta 2 (complement component 3 receptor 3 and 4 subunit)	
ITGB4	Integrin, beta 4	
ITGB7	Integrin, beta 7	
ITM2C	Integral membrane protein 2C	
ITPR3	Inositol 1,4,5-trisphosphate receptor, type 3	
ITPRIPL2	Inositol 1,4,5-trisphosphate receptor interacting protein-like 2	

ITSN2	Intersectin 2	
IVNS1ABP	Influenza virus NS1A binding protein	
IYD	Iodotyrosine deiodinase	
IZUMO4	IZUMO family member 4	
JAKMIP3	Janus kinase and microtubule interacting protein 3	
JAM3	Junctional adhesion molecule 3	
JARID2	Jumonji, AT rich interactive domain 2	
JMJD1C	Jumonji domain containing 1C	
JMJD5	Jumonji domain containing 5	
KALRN	Kalirin, rhogef kinase	
KANK1	KN motif and ankyrin repeat domains 1	
KANK2	KN motif and ankyrin repeat domains 2	
KANK4	KN motif and ankyrin repeat domains 4	
KAT5	K(lysine) acetyltransferase 5	
KAT6A	K(lysine) acetyltransferase 6A	
KCNA4	Potassium voltage-gated channel, shaker-related subfamily, member 4	
KCNB1	Potassium voltage-gated channel, Shab-related subfamily, member 1	
KCNC1	Potassium voltage-gated channel, Shaw-related subfamily, member 1	
KCNC2	Potassium voltage-gated channel, Shaw-related subfamily, member 2	
KCNG1	Potassium voltage-gated channel, subfamily G, member 1	
KCNG3	Potassium voltage-gated channel, subfamily G, member 3	
KCNH2	Potassium voltage-gated channel, subfamily H (eag-related), member 2	
KCNH4	Potassium voltage-gated channel, subfamily H (eag-related), member 4	
KCNH5	Potassium voltage-gated channel, subfamily H (eag-related), member 5	
KCNJ12	Potassium inwardly-rectifying channel, subfamily J, member 12	
KCNJ14	Potassium inwardly-rectifying channel, subfamily J, member 14	
KCNJ5	Potassium inwardly-rectifying channel, subfamily J, member 5	√
KCNJ8	Potassium inwardly-rectifying channel, subfamily J, member 8	
KCNK1	Potassium channel, subfamily K, member 1	
KCNK18	Potassium channel, subfamily K, member 18	
KCNK3	Potassium channel, subfamily K, member 3	
KCNK6	Potassium channel, subfamily K, member 6	
KCNMB4	Potassium large conductance calcium-activated channel, subfamily M, beta member 4	
KCNN2	Potassium intermediate/small conductance calcium-activated channel, subfamily N, member 2	
KCNS2	Potassium voltage-gated channel, delayed-rectifier, subfamily S, member 2	
KCTD1	Potassium channel tetramerisation domain containing 1	

KCTD17	Potassium channel tetramerisation domain containing 17	
KCTD9	Potassium channel tetramerisation domain containing 9	
KDELC2	KDEL (Lys-Asp-Glu-Leu) containing 2	
KDM2A	Lysine (K)-specific demethylase 2A	
KDM2B	Lysine (K)-specific demethylase 2B	
KDM4B	Lysine (K)-specific demethylase 4B	
KDM6B	Lysine (K)-specific demethylase 6B	
KDR	Kinase insert domain receptor (a type III receptor tyrosine kinase)	√
KHNYN	KH and NYN domain containing	
KIAA0090	KIAA0090	
KIAA0100	KIAA0100	
KIAA0195	KIAA0195	
KIAA0196	KIAA0196	
KIAA0247	KIAA0247	
KIAA0317	KIAA0317	
KIAA0319	KIAA0319	
KIAA0408	KIAA0408	
KIAA0430	KIAA0430	
KIAA0513	KIAA0513	
KIAA0528	KIAA0528	
KIAA0564	KIAA0564	
KIAA0889	KIAA0889	
KIAA0913	KIAA0913	
KIAA1109	KIAA1109	
KIAA1244	KIAA1244	
KIAA1267	KIAA1267	
KIAA1274	KIAA1274	
KIAA1328	KIAA1328	
KIAA1407	KIAA1407	
KIAA1522	KIAA1522	
KIAA1598	KIAA1598	
KIAA1737	KIAA1737	
KIAA1755	KIAA1755	
KIAA1967	KIAA1967	
KIAA1984	KIAA1984	
KIAA2018	KIAA2018	

KIF14	Kinesin family member 14	
KIF19	Kinesin family member 19	
KIF21A	Kinesin family member 21A	
KIF21B	Kinesin family member 21B	
KIF23	Kinesin family member 23	
KIF24	Kinesin family member 24	
KIF26A	Kinesin family member 26A	
KIF26B	Kinesin family member 26B	
KIF3A	Kinesin family member 3A	
KIF6	Kinesin family member 6	
KIF7	Kinesin family member 7	
KIFC2	Kinesin family member C2	
KIN	KIN, antigenic determinant of reca protein homolog (mouse)	
KIR2DL4	Killer cell immunoglobulin-like receptor, two domains, long cytoplasmic tail, 4	
KIR3DL3	Killer cell immunoglobulin-like receptor, three domains, long cytoplasmic tail, 3	
KLF13	Kruppel-like factor 13	
KLF4	Kruppel-like factor 4 (gut)	√
KLHDC9	Kelch domain containing 9	
KLHL10	Kelch-like 10 (Drosophila)	
KLHL24	Kelch-like 24 (Drosophila)	
KLHL25	Kelch-like 25 (Drosophila)	
KLHL29	Kelch-like 29 (Drosophila)	
KLHL30	Kelch-like 30 (Drosophila)	
KLHL7	Kelch-like 7 (Drosophila)	
KLK15	Kallikrein-related peptidase 15	
KLK7	Kallikrein-related peptidase 7	
KLRD1	Killer cell lectin-like receptor subfamily D, member 1	
KLRG2	Killer cell lectin-like receptor subfamily G, member 2	
KLRK1	Killer cell lectin-like receptor subfamily K, member 1	
KNDC1	Kinase non-catalytic C-lobe domain (KIND) containing 1	
KNTC1	Kinetochores associated 1	
KPNA1	Karyopherin alpha 1 (importin alpha 5)	
KPNA4	Karyopherin alpha 4 (importin alpha 3)	
KPNA7	Karyopherin alpha 7 (importin alpha 8)	
KREMEN1	Kringle containing transmembrane protein 1	
KRT1	Keratin 1	

KRT24	Keratin 24	
KRT3	Keratin 3	
KRT72	Keratin 72	
KRT74	Keratin 74	
KRT79	Keratin 79	
KRTAP10-7	Keratin associated protein 10-7	
KRTAP5-10	Keratin associated protein 5-10	
KRTAP5-5	Keratin associated protein 5-5	
KRTCAP2	Keratinocyte associated protein 2	
KTN1	Kinectin 1 (kinesin receptor)	√
KY	Kyphoscoliosis peptidase	
KYNU	Kynureninase	
LAD1	Ladinin 1	
LAMA3	Laminin, alpha 3	
LAMC2	Laminin, gamma 2	
LAPTM4B	Lysosomal protein transmembrane 4 beta	
LARP4B	La ribonucleoprotein domain family, member 4B	
LASP1	LIM and SH3 protein 1	√
LAT2	Linker for activation of T cells family, member 2	
LCLAT1	Lysocardiolipin acyltransferase 1	
LDB1	LIM domain binding 1	
LDB3	LIM domain binding 3	
LDLR	Low density lipoprotein receptor	
LEAP2	Liver expressed antimicrobial peptide 2	
LEMD3	LEM domain containing 3	
LGALS12	Lectin, galactoside-binding, soluble, 12	
LGALS14	Lectin, galactoside-binding, soluble, 14	
LGALS7B	Lectin, galactoside-binding, soluble, 7B	
LGR5	Leucine-rich repeat containing G protein-coupled receptor 5	
LHFPL3	Lipoma HMGIC fusion partner-like 3	
LIG3	Ligase III, DNA, ATP-dependent	
LILRB4	Leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 4	
LIMD1	LIM domains containing 1	
LIN54	Lin-54 homolog (C. Elegans)	
LIPE	Lipase, hormone-sensitive	
LIPG	Lipase, endothelial	

LLPH	LLP homolog, long-term synaptic facilitation (Aplysia)	
LMF2	Lipase maturation factor 2	
LMNA	Lamin A/C	
LMX1A	LIM homeobox transcription factor 1, alpha	
LONRF2	LON peptidase N-terminal domain and ring finger 2	
LPAR2	Lysophosphatidic acid receptor 2	
LPCAT1	Lysophosphatidylcholine acyltransferase 1	
LRBA	LPS-responsive vesicle trafficking, beach and anchor containing	
LRIG1	Leucine-rich repeats and immunoglobulin-like domains 1	
LRP1	Low density lipoprotein receptor-related protein 1	
LRP11	Low density lipoprotein receptor-related protein 11	
LRP2	Low density lipoprotein receptor-related protein 2	
LRP3	Low density lipoprotein receptor-related protein 3	
LRP4	Low density lipoprotein receptor-related protein 4	
LRP5	Low density lipoprotein receptor-related protein 5	
LRPAP1	Low density lipoprotein receptor-related protein associated protein 1	
LRRC14	Leucine rich repeat containing 14	
LRRC16A	Leucine rich repeat containing 16A	
LRRC23	Leucine rich repeat containing 23	
LRRC32	Leucine rich repeat containing 32	
LRRC33	Leucine rich repeat containing 33	
LRRC4	Leucine rich repeat containing 4	
LRRC40	Leucine rich repeat containing 40	
LRRC49	Leucine rich repeat containing 49	
LRRC4B	Leucine rich repeat containing 4B	
LRRC4C	Leucine rich repeat containing 4C	
LRRC66	Leucine rich repeat containing 66	
LRRC8D	Leucine rich repeat containing 8 family, member D	
LRRC8E	Leucine rich repeat containing 8 family, member E	
LRRIQ1	Leucine-rich repeats and IQ motif containing 1	
LRRK1	Leucine-rich repeat kinase 1	
LRRK2	Leucine-rich repeat kinase 2	
LRRN4CL	LRRN4 C-terminal like	
LTBP1	Latent transforming growth factor beta binding protein 1	
LTN1	Listerin E3 ubiquitin protein ligase 1	
LUZP1	Leucine zipper protein 1	

LVRN	Aminopeptidase Q	
LY6G5B	Lymphocyte antigen 6 complex, locus G5B	
LY6G6F	Lymphocyte antigen 6 complex, locus G6F	
LYRM7	Lym7 homolog (mouse)	
LYZL1	Lysozyme-like 1	
LYZL2	Lysozyme-like 2	
LZTFL1	Leucine zipper transcription factor-like 1	
MACF1	Microtubule-actin crosslinking factor 1	
MAFF	V-maf musculoaponeurotic fibrosarcoma oncogene homolog F (avian)	
MAFG	V-maf musculoaponeurotic fibrosarcoma oncogene homolog G (avian)	
MAGED4B	Melanoma antigen family D, 4B	
MAGEF1	Melanoma antigen family F, 1	
MAGT1	Magnesium transporter 1	
MAMDC4	MAM domain containing 4	
MAML1	Mastermind-like 1 (Drosophila)	
MAML2	Mastermind-like 2 (Drosophila)	√
MAN2B1	Mannosidase, alpha, class 2B, member 1	
MAN2C1	Mannosidase, alpha, class 2C, member 1	
MAP1A	Microtubule-associated protein 1A	
MAP2K7	Mitogen-activated protein kinase kinase 7	
MAP3K1	Mitogen-activated protein kinase kinase kinase 1	
MAP3K13	Mitogen-activated protein kinase kinase kinase 13	
MAP3K15	Mitogen-activated protein kinase kinase kinase 15	
MAP3K6	Mitogen-activated protein kinase kinase kinase 6	
MAP3K9	Mitogen-activated protein kinase kinase kinase 9	
MAP4	Microtubule-associated protein 4	
MAP4K1	Mitogen-activated protein kinase kinase kinase kinase 1	
MAP4K4	Mitogen-activated protein kinase kinase kinase kinase 4	
MAP7D3	MAP7 domain containing 3	
MAPK1	Mitogen-activated protein kinase 1	
MAPK10	Mitogen-activated protein kinase 10	
MAPK11	Mitogen-activated protein kinase 11	
MAPK3	Mitogen-activated protein kinase 3	
MAPK4	Mitogen-activated protein kinase 4	
MAPK8	Mitogen-activated protein kinase 8	
MAPKBP1	Mitogen-activated protein kinase binding protein 1	

MAPT	Microtubule-associated protein tau	
MARCH4	Membrane-associated ring finger (C3HC4) 4, E3 ubiquitin protein ligase	
MARCKS	Myristoylated alanine-rich protein kinase C substrate	
MARCO	Macrophage receptor with collagenous structure	
MARK2	MAP/microtubule affinity-regulating kinase 2	
MARVELD2	MARVEL domain containing 2	
MASP1	Mannan-binding lectin serine peptidase 1 (C4/C2 activating component of Ra-reactive factor)	
MAST1	Microtubule associated serine/threonine kinase 1	
MAT1A	Methionine adenosyltransferase I, alpha	
MATR3	Matrin 3	
MBTPS1	Membrane-bound transcription factor peptidase, site 1	
MC1R	Melanocortin 1 receptor (alpha melanocyte stimulating hormone receptor)	
MC2R	Melanocortin 2 receptor (adrenocorticotrophic hormone)	
MCART6	Mitochondrial carrier triple repeat 6	
MCAT	Malonyl coa:ACP acyltransferase (mitochondrial)	
MCF2	MCF.2 cell line derived transforming sequence	
MCF2L	MCF.2 cell line derived transforming sequence-like	
MCM10	Minichromosome maintenance complex component 10	
MCM3AP	Minichromosome maintenance complex component 3 associated protein	
MDC1	Mediator of DNA-damage checkpoint 1	
MDGA2	MAM domain containing glycosylphosphatidylinositol anchor 2	
MDM4	Mdm4 p53 binding protein homolog (mouse)	√
MECP2	Methyl cpg binding protein 2 (Rett syndrome)	
MED12	Mediator complex subunit 12	√
MED13L	Mediator complex subunit 13-like	
MED29	Mediator complex subunit 29	
MED7	Mediator complex subunit 7	
MED8	Mediator complex subunit 8	
MEGF8	Multiple EGF-like-domains 8	
MEIS1	Meis homeobox 1	
MEP1A	Meprin A, alpha (PABA peptide hydrolase)	
MET	Met proto-oncogene (hepatocyte growth factor receptor)	√
METTL1	Methyltransferase like 1	
METTL21A	Methyltransferase like 21A	
METTL7B	Methyltransferase like 7B	
MFAP3	Microfibrillar-associated protein 3	

MFAP4	Microfibrillar-associated protein 4	
MFHAS1	Malignant fibrous histiocytoma amplified sequence 1	
MFN2	Mitofusin 2	
MFSD11	Major facilitator superfamily domain containing 11	
MFSD4	Major facilitator superfamily domain containing 4	
MFSD6	Major facilitator superfamily domain containing 6	
MGAT4A	Mannosyl (alpha-1,3-)-glycoprotein beta-1,4- <i>N</i> -acetylglucosaminyltransferase, isozyme A	
MGAT5	Mannosyl (alpha-1,6-)-glycoprotein beta-1,6- <i>N</i> -acetyl-glycosaminyltransferase	
MGMT	O-6-methylguanine-DNA methyltransferase	
MGRN1	Mahogunin, ring finger 1	
MGST3	Microsomal glutathione S-transferase 3	
MIA2	Melanoma inhibitory activity 2	
MIA3	Melanoma inhibitory activity family, member 3	
MIER1	Mesoderm induction early response 1 homolog (<i>Xenopus laevis</i>)	
MIIP	Migration and invasion inhibitory protein	
MINOS1	Mitochondrial inner membrane organizing system 1	
MIPOL1	Mirror-image polydactyly 1	
MIR4763	Microrna 4763	
MKL1	Megakaryoblastic leukemia (translocation) 1	√
MLC1	Megalencephalic leukoencephalopathy with subcortical cysts 1	
MLF2	Myeloid leukemia factor 2	
MLL2	Myeloid/lymphoid or mixed-lineage leukemia 2	
MLL3	Myeloid/lymphoid or mixed-lineage leukemia 3	√
MLLT11	Myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, <i>Drosophila</i>); translocated to, 11	
MLXIP	MLX interacting protein	
MME	Membrane metallo-endopeptidase	
MMP25	Matrix metalloproteinase 25	
MMRN1	Multimerin 1	
MOB1A	MOB kinase activator 1A	
MOCOS	Molybdenum cofactor sulfurase	
MPDZ	Multiple PDZ domain protein	
MPEG1	Macrophage expressed 1	
MPPED1	Metallophosphoesterase domain containing 1	
MPRIIP	Myosin phosphatase Rho interacting protein	
MPZL3	Myelin protein zero-like 3	
MR1	Major histocompatibility complex, class I-related	

MRPL52	Mitochondrial ribosomal protein L52	
MRPS18B	Mitochondrial ribosomal protein S18B	
MRPS21	Mitochondrial ribosomal protein S21	
MRPS25	Mitochondrial ribosomal protein S25	
MRVII	Murine retrovirus integration site 1 homolog	
MS4A10	Membrane-spanning 4-domains, subfamily A, member 10	
MS4A7	Membrane-spanning 4-domains, subfamily A, member 7	
MSH3	Muts homolog 3 (<i>E. Coli</i>)	
MSH5	Muts homolog 5 (<i>E. Coli</i>)	
MSL3	Male-specific lethal 3 homolog (<i>Drosophila</i>)	
MST1R	Macrophage stimulating 1 receptor (c-met-related tyrosine kinase)	
MTA1	Metastasis associated 1	
MTDH	Metadherin	
MTF1	Metal-regulatory transcription factor 1	
MTHFD1L	Methylenetetrahydrofolate dehydrogenase (NADP ⁺ dependent) 1-like	
MTHFR	Methylenetetrahydrofolate reductase (NAD(P)H)	
MTMR10	Myotubularin related protein 10	
MTMR12	Myotubularin related protein 12	
MTMR14	Myotubularin related protein 14	
MTMR7	Myotubularin related protein 7	
MTNR1B	Melatonin receptor 1B	
MTOR	Mechanistic target of rapamycin (serine/threonine kinase)	
MTPN	Myotrophin	
MUC12	Mucin 12, cell surface associated	
MUC2	Mucin 2, oligomeric mucus/gel-forming	
MUC4	Mucin 4, cell surface associated	
MUM1	Melanoma associated antigen (mutated) 1	
MUTYH	Muty homolog (<i>E. Coli</i>)	√
MX1	Myxovirus (influenza virus) resistance 1, interferon-inducible protein p78 (mouse)	
MXD4	MAX dimerization protein 4	
MYADM	Myeloid-associated differentiation marker	
MYB	V-myb myeloblastosis viral oncogene homolog (avian)	√
MYBL1	V-myb myeloblastosis viral oncogene homolog (avian)-like 1	
MYBL2	V-myb myeloblastosis viral oncogene homolog (avian)-like 2	
MYCBPAP	MYCBP associated protein	
MYH11	Myosin, heavy chain 11, smooth muscle	√

MYL1	Myosin, light chain 1, alkali; skeletal, fast	
MYLK	Myosin light chain kinase	
MYNN	Myoneurin	
MYO15B	Myosin XVB pseudogene	
MYO18B	Myosin XVIIIIB	
MYO19	Myosin XIX	
MYO1C	Myosin IC	
MYO1G	Myosin IG	
MYO3B	Myosin IIIB	
MYO5A	Myosin VA	
MYO5C	Myosin VC	
MYOD1	Myogenic differentiation 1	
MYOM2	Myomesin (M-protein) 2, 165 kDa	
MYOM3	Myomesin family, member 3	
MYT1L	Myelin transcription factor 1-like	
NAA15	N(alpha)-acetyltransferase 15, nata auxiliary subunit	
NACA	Nascent polypeptide-associated complex alpha subunit	√
NACAD	NAC alpha domain containing	
NACC2	NACC family member 2, BEN and BTB (POZ) domain containing	
NAGK	N-acetylglucosamine kinase	
NAP1L4	Nucleosome assembly protein 1-like 4	
NAPEPLD	N-acyl phosphatidylethanolamine phospholipase D	
NAPSA	Napsin A aspartic peptidase	
NARF	Nuclear prelamin A recognition factor	
NAT10	N-acetyltransferase 10 (GCN5-related)	
NAT6	N-acetyltransferase 6 (GCN5-related)	
NAV1	Neuron navigator 1	
NAV3	Neuron navigator 3	
NBEA	Neurobeachin	
NBEAL2	Neurobeachin-like 2	
NCF2	Neutrophil cytosolic factor 2	
NCK2	NCK adaptor protein 2	
NCKIPSD	NCK interacting protein with SH3 domain	
NCL	Nucleolin	
NCOA2	Nuclear receptor coactivator 2	√
NCOA3	Nuclear receptor coactivator 3	

NCOR2	Nuclear receptor corepressor 2	
NCS1	Neuronal calcium sensor 1	
NDRG4	NDRG family member 4	
NDUFA10	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 10, 42 kDa	
NDUFB2	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 2, 8 kDa	
NDUFS1	NADH dehydrogenase (ubiquinone) Fe-S protein 1, 75 kDa (NADH-coenzyme Q reductase)	
NEB	Nebulin	
NECAB2	N-terminal EF-hand calcium binding protein 2	
NEGR1	Neuronal growth regulator 1	
NEIL2	Nei endonuclease VIII-like 2 (<i>E. Coli</i>)	
NEK11	NIMA (never in mitosis gene a)- related kinase 11	
NEK7	NIMA (never in mitosis gene a)-related kinase 7	
NEO1	Neogenin 1	
NES	Nestin	
NETO2	Neuropilin (NRP) and tolloid (TLL)-like 2	
NEURL	Neuralized homolog (Drosophila)	
NEURL4	Neuralized homolog 4 (Drosophila)	
NEUROD2	Neurogenic differentiation 2	
NFAT5	Nuclear factor of activated T-cells 5, tonicity-responsive	
NFATC3	Nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 3	
NFIB	Nuclear factor I/B	√
NFKBIB	Nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, beta	
NHSL1	NHS-like 1	
NICN1	Nicolin 1	
NINJ1	Ninjurin 1	
NIP7	Nuclear import 7 homolog (<i>S. Cerevisiae</i>)	
NIPA1	Non imprinted in Prader-Willi/Angelman syndrome 1	
NIPAL2	NIPA-like domain containing 2	
NIPAL4	NIPA-like domain containing 4	
NISCH	Nischarin	
NIT2	Nitrilase family, member 2	
NKAIN1	Na ⁺ /K ⁺ transporting atpase interacting 1	
NKAIN2	Na ⁺ /K ⁺ transporting atpase interacting 2	
NKAPL	NFKB activating protein-like	
NKD2	Naked cuticle homolog 2 (Drosophila)	
NKIRAS1	NFKB inhibitor interacting Ras-like 1	

NLE1	Notchless homolog 1 (Drosophila)	
NLGN1	Neuroigin 1	
NLGN2	Neuroigin 2	
NLN	Neurolysin (metallopeptidase M3 family)	
NLRC5	NLR family, CARD domain containing 5	
NLRP12	NLR family, pyrin domain containing 12	
NLRP14	NLR family, pyrin domain containing 14	
NNT	Nicotinamide nucleotide transhydrogenase	
NOL12	Nucleolar protein 12	
NOP14	NOP14 nucleolar protein homolog (yeast)	
NOS3	Nitric oxide synthase 3 (endothelial cell)	
NOTCH2	Notch 2	√
NOV	Nephroblastoma overexpressed gene	
NOX1	NADPH oxidase 1	
NOX5	NADPH oxidase, EF-hand calcium binding domain 5	
NPC1L1	NPC1 (Niemann-Pick disease, type C1, gene)-like 1	
NPDC1	Neural proliferation, differentiation and control, 1	
NPIPL1	Nuclear pore complex interacting protein-like 1	
NPLOC4	Nuclear protein localization 4 homolog (<i>S. Cerevisiae</i>)	
NR1I2	Nuclear receptor subfamily 1, group I, member 2	
NR3C1	Nuclear receptor subfamily 3, group C, member 1 (glucocorticoid receptor)	
NRBP1	Nuclear receptor binding protein 1	
NRCAM	Neuronal cell adhesion molecule	
NRG1	Neuregulin 1	
NRIP1	Nuclear receptor interacting protein 1	
NRK	Nik related kinase	
NRXN1	Neurexin 1	
NRXN2	Neurexin 2	
NSD1	Nuclear receptor binding SET domain protein 1	√
NT5C	5', 3'-nucleotidase, cytosolic	
NT5E	5'-nucleotidase, ecto (CD73)	
NTHL1	Nth endonuclease III-like 1 (E. Coli)	
NTRK3	Neurotrophic tyrosine kinase, receptor, type 3	√
NUAK1	NUAK family, SNF1-like kinase, 1	
NUCB1	Nucleobindin 1	
NUF2	NUF2, NDC80 kinetochore complex component, homolog (<i>S. Cerevisiae</i>)	

NUMBL	Numb homolog (Drosophila)-like	
NUP107	Nucleoporin 107kda	
NUP155	Nucleoporin 155kda	
NUPL1	Nucleoporin like 1	
NUS1	Nuclear undecaprenyl pyrophosphate synthase 1 homolog (<i>S. Cerevisiae</i>)	
NUTF2	Nuclear transport factor 2	
NWD1	NACHT and WD repeat domain containing 1	
NXF5	Nuclear RNA export factor 5	
NYNRIN	NYN domain and retroviral integrase containing	
O3FAR1	Omega-3 fatty acid receptor 1	
OAS2	2'-5'-oligoadenylate synthetase 2, 69/71 kDa	
OBSCN	Obscurin, cytoskeletal calmodulin and titin-interacting rhogef	
ODZ4	Odz, odd Oz/ten-m homolog 4 (Drosophila)	
OLA1	Obg-like atpase 1	
OMG	Oligodendrocyte myelin glycoprotein	
OPA3	Optic atrophy 3 (autosomal recessive, with chorea and spastic paraplegia)	
OPN1MW	Opsin 1 (cone pigments), medium-wave-sensitive	
OPN1MW2	Opsin 1 (cone pigments), medium-wave-sensitive 2	
OPN4	Opsin 4	
OR10G2	Olfactory receptor, family 10, subfamily G, member 2	
OR10G8	Olfactory receptor, family 10, subfamily G, member 8	
OR10H3	Olfactory receptor, family 10, subfamily H, member 3	
OR10H4	Olfactory receptor, family 10, subfamily H, member 4	
OR13A1	Olfactory receptor, family 13, subfamily A, member 1	
OR1D2	Olfactory receptor, family 1, subfamily D, member 2	
OR2H1	Olfactory receptor, family 2, subfamily H, member 1	
OR2L3	Olfactory receptor, family 2, subfamily L, member 3	
OR2L8	Olfactory receptor, family 2, subfamily L, member 8	
OR2T29	Olfactory receptor, family 2, subfamily T, member 29	
OR2T5	Olfactory receptor, family 2, subfamily T, member 5	
OR4M1	Olfactory receptor, family 4, subfamily M, member 1	
OR5J2	Olfactory receptor, family 5, subfamily J, member 2	
OR7C1	Olfactory receptor, family 7, subfamily C, member 1	
OR7C2	Olfactory receptor, family 7, subfamily C, member 2	
OR7D2	Olfactory receptor, family 7, subfamily D, member 2	
OR8J3	Olfactory receptor, family 8, subfamily J, member 3	

OR9I1	Olfactory receptor, family 9, subfamily I, member 1	
ORAI2	ORAI calcium release-activated calcium modulator 2	
OSBPL11	Oxysterol binding protein-like 11	
OSMR	Oncostatin M receptor	
OSR2	Odd-skipped related 2 (Drosophila)	
OSTBETA	Organic solute transporter subunit beta	
OTC	Ornithine carbamoyltransferase	
OTOA	Otoancorin	
OTOG	Otogelin	
OTOS	Otospiralin	
OVGP1	Oviductal glycoprotein 1, 120kda	
OVOL1	Ovo-like 1(Drosophila)	
P2RX6	Purinergic receptor P2X, ligand-gated ion channel, 6	
P2RY4	Pyrimidinergic receptor P2Y, G-protein coupled, 4	
PACRGL	PARK2 co-regulated-like	
PACSN1	Protein kinase C and casein kinase substrate in neurons 1	
PAFAH1B1	Platelet-activating factor acetylhydrolase 1b, regulatory subunit 1 (45 kDa)	
PAG1	Phosphoprotein associated with glycosphingolipid microdomains 1	
PAIP2B	Poly(A) binding protein interacting protein 2B	
PAK7	P21 protein (Cdc42/Rac)-activated kinase 7	
PALM2-AKAP2	PALM2-AKAP2 readthrough	
PAN2	PAN2 poly(A) specific ribonuclease subunit homolog (<i>S. Cerevisiae</i>)	
PANK3	Pantothenate kinase 3	
PAPPA	Pregnancy-associated plasma protein A, pappalysin 1	
PAPPA2	Pappalysin 2	
PAQR8	Progesterin and adipoq receptor family member VIII	
PARD3B	Par-3 partitioning defective 3 homolog B (<i>C. Elegans</i>)	
PARD6A	Par-6 partitioning defective 6 homolog alpha (<i>C. Elegans</i>)	
PARK2	Parkinson protein 2, E3 ubiquitin protein ligase (parkin)	
PARL	Presenilin associated, rhomboid-like	
PARP10	Poly (ADP-ribose) polymerase family, member 10	
PARP2	Poly (ADP-ribose) polymerase 2	
PARS2	Prolyl-trna synthetase 2, mitochondrial (putative)	
PARVG	Parvin, gamma	
PASK	PAS domain containing serine/threonine kinase	
PAX1	Paired box 1	

PAX6	Paired box 6	
PAX8	Paired box 8	√
PBRM1	Polybromo 1	√
PBX2	Pre-B-cell leukemia homeobox 2	
PBXIP1	Pre-B-cell leukemia homeobox interacting protein 1	
PCCA	Propionyl coa carboxylase, alpha polypeptide	
PCDH11X	Protocadherin 11 X-linked	
PCDH11Y	Protocadherin 11 Y-linked	
PCDH19	Protocadherin 19	
PCDH7	Protocadherin 7	
PCDH8	Protocadherin 8	
PCDHAC1	Protocadherin alpha subfamily C, 1	
PCDHB13	Protocadherin beta 13	
PCDHB16	Protocadherin beta 16	
PCDHB2	Protocadherin beta 2	
PCDHB4	Protocadherin beta 4	
PCDHB7	Protocadherin beta 7	
PCDHB8	Protocadherin beta 8	
PCDHGA1	Protocadherin gamma subfamily A, 1	
PCDHGA10	Protocadherin gamma subfamily A, 10	
PCDHGA12	Protocadherin gamma subfamily A, 12	
PCDHGA2	Protocadherin gamma subfamily A, 2	
PCDHGA3	Protocadherin gamma subfamily A, 3	
PCDHGA6	Protocadherin gamma subfamily A, 6	
PCDHGA8	Protocadherin gamma subfamily A, 8	
PCDHGB1	Protocadherin gamma subfamily B, 1	
PCDHGB2	Protocadherin gamma subfamily B, 2	
PCDHGB4	Protocadherin gamma subfamily B, 4	
PCDHGB7	Protocadherin gamma subfamily B, 7	
PCDHGC4	Protocadherin gamma subfamily C, 4	
PCID2	PCI domain containing 2	
PCMTD2	Protein-L-isoaspartate (D-aspartate) O-methyltransferase domain containing 2	
PCSK4	Proprotein convertase subtilisin/kexin type 4	
PCSK6	Proprotein convertase subtilisin/kexin type 6	
PCYT1A	Phosphate cytidyltransferase 1, choline, alpha	
PDCD11	Programmed cell death 11	

PDCD6IP	Programmed cell death 6 interacting protein	
PDE1A	Phosphodiesterase 1A, calmodulin-dependent	
PDE1C	Phosphodiesterase 1C, calmodulin-dependent 70kda	
PDE4B	Phosphodiesterase 4B, camp-specific	
PDE6A	Phosphodiesterase 6A, cgmp-specific, rod, alpha	
PDE7B	Phosphodiesterase 7B	
PDGFRB	Platelet-derived growth factor receptor, beta polypeptide	√
PDIA2	Protein disulfide isomerase family A, member 2	
PDIK1L	PDLIM1 interacting kinase 1 like	
PDK2	Pyruvate dehydrogenase kinase, isozyme 2	
PDLIM7	PDZ and LIM domain 7 (enigma)	
PDPN	Podoplanin	
PDS5A	PDS5, regulator of cohesion maintenance, homolog A (<i>S. Cerevisiae</i>)	
PDSS1	Prenyl (decaprenyl) diphosphate synthase, subunit 1	
PDXK	Pyridoxal (pyridoxine, vitamin B6) kinase	
PEF1	Penta-EF-hand domain containing 1	
PEPD	Peptidase D	
PES1	Pescadillo homolog 1, containing BRCT domain (zebrafish)	
PEX5L	Peroxisomal biogenesis factor 5-like	
PFKP	Phosphofructokinase, platelet	
PGK1	Phosphoglycerate kinase 1	
PGM2L1	Phosphoglucomutase 2-like 1	
PGPEP1	Pyroglutamyl-peptidase I	
PGR	Progesterone receptor	
PHACTR4	Phosphatase and actin regulator 4	
PHC2	Polyhomeotic homolog 2 (<i>Drosophila</i>)	
PHF15	PHD finger protein 15	
PHF16	PHD finger protein 16	
PHF2	PHD finger protein 2	
PHLDA1	Pleckstrin homology-like domain, family A, member 1	
PICK1	Protein interacting with PRKCA 1	
PIGV	Phosphatidylinositol glycan anchor biosynthesis, class V	
PIGX	Phosphatidylinositol glycan anchor biosynthesis, class X	
PIK3C2B	Phosphoinositide-3-kinase, class 2, beta polypeptide	
PIK3IP1	Phosphoinositide-3-kinase interacting protein 1	
PIKFYVE	Phosphoinositide kinase, FYVE finger containing	

PIPOX	Pipecolic acid oxidase	
PITPNM3	PITPNM family member 3	
PIWIL3	Piwi-like 3 (Drosophila)	
PIWIL4	Piwi-like 4 (Drosophila)	
PKD1	Polycystic kidney disease 1 (autosomal dominant)	
PKD1L1	Polycystic kidney disease 1 like 1	
PKD2	Polycystic kidney disease 2 (autosomal dominant)	
PKHD1	Polycystic kidney and hepatic disease 1 (autosomal recessive)	
PKHD1L1	Polycystic kidney and hepatic disease 1 (autosomal recessive)-like 1	
PLA2G12B	Phospholipase A2, group XIIB	
PLA2G6	Phospholipase A2, group VI (cytosolic, calcium-independent)	
PLA2R1	Phospholipase A2 receptor 1, 180kda	
PLB1	Phospholipase B1	
PLBD2	Phospholipase B domain containing 2	
PLCE1	Phospholipase C, epsilon 1	
PLCXD3	Phosphatidylinositol-specific phospholipase C, X domain containing 3	
PLEC	Plectin	
PLEKHA4	Pleckstrin homology domain containing, family A (phosphoinositide binding specific) member 4	
PLEKHH1	Pleckstrin homology domain containing, family H (with myth4 domain) member 1	
PLEKHJ1	Pleckstrin homology domain containing, family J member 1	
PLEKHM1	Pleckstrin homology domain containing, family M (with RUN domain) member 1	
PLEKHM2	Pleckstrin homology domain containing, family M (with RUN domain) member 2	
PLEKHO2	Pleckstrin homology domain containing, family O member 2	
PLIN1	Perilipin 1	
PLIN2	Perilipin 2	
PLK1	Polo-like kinase 1	
PLXNA2	Plexin A2	
PLXNA3	Plexin A3	
PLXNA4	Plexin A4	
PLXNB1	Plexin B1	
PMEPA1	Prostate transmembrane protein, androgen induced 1	
PNOC	Prepronociceptin	
PNPLA6	Patatin-like phospholipase domain containing 6	
PNPLA7	Patatin-like phospholipase domain containing 7	
PNRC2	Proline-rich nuclear receptor coactivator 2	
PODN	Podocan	

POLE3	Polymerase (DNA directed), epsilon 3 (p17 subunit)	
POLK	Polymerase (DNA directed) kappa	
POLR1A	Polymerase (RNA) I polypeptide A, 194 kDa	
POLR2A	Polymerase (RNA) II (DNA directed) polypeptide A, 220 kDa	
POLR2D	Polymerase (RNA) II (DNA directed) polypeptide D	
POLR3A	Polymerase (RNA) III (DNA directed) polypeptide A, 155 kDa	
POLR3H	Polymerase (RNA) III (DNA directed) polypeptide H (22.9 kDa)	
POLRMT	Polymerase (RNA) mitochondrial (DNA directed)	
POMGNT1	Protein O-linked mannose beta1,2- <i>N</i> -acetylglucosaminyltransferase	
POSTN	Periostin, osteoblast specific factor	
POT1	Protection of telomeres 1 homolog (<i>S. Pombe</i>)	√
POU2AF1	POU class 2 associating factor 1	√
POU2F1	POU class 2 homeobox 1	
POU3F3	POU class 3 homeobox 3	
PPAN	Peter pan homolog (<i>Drosophila</i>)	
PPARA	Peroxisome proliferator-activated receptor alpha	
PPFIA1	Protein tyrosine phosphatase, receptor type, f polypeptide (PTPRF), interacting protein (liprin), alpha 1	
PPFIBP1	PTPRF interacting protein, binding protein 1 (liprin beta 1)	
PPIAL4A	Peptidylprolyl isomerase A (cyclophilin A)-like 4A	
PPL	Periplakin	
PPM1A	Protein phosphatase, Mg ²⁺ /Mn ²⁺ dependent, 1A	
PPM1B	Protein phosphatase, Mg ²⁺ /Mn ²⁺ dependent, 1B	
PPM1D	Protein phosphatase, Mg ²⁺ /Mn ²⁺ dependent, 1D	
PPM1F	Protein phosphatase, Mg ²⁺ /Mn ²⁺ dependent, 1F	
PPM1M	Protein phosphatase, Mg ²⁺ /Mn ²⁺ dependent, 1M	
PPP1R10	Protein phosphatase 1, regulatory subunit 10	
PPP1R12B	Protein phosphatase 1, regulatory subunit 12B	
PPP1R35	Protein phosphatase 1, regulatory subunit 35	
PPP1R3F	Protein phosphatase 1, regulatory subunit 3F	
PPP2CA	Protein phosphatase 2, catalytic subunit, alpha isozyme	
PPP2R5D	Protein phosphatase 2, regulatory subunit B', delta	
PPP2R5E	Protein phosphatase 2, regulatory subunit B', epsilon isoform	
PPP3R2	Protein phosphatase 3, regulatory subunit B, beta	
PPP6R1	Protein phosphatase 6, regulatory subunit 1	
PPRC1	Peroxisome proliferator-activated receptor gamma, coactivator-related 1	
PRDM11	PR domain containing 11	

PRDM14	PR domain containing 14	
PRDM15	PR domain containing 15	
PRDM2	PR domain containing 2, with ZNF domain	
PRDM4	PR domain containing 4	
PRG4	Proteoglycan 4	
PRKCI	Protein kinase C, iota	
PRKD3	Protein kinase D3	
PRKDC	Protein kinase, DNA-activated, catalytic polypeptide	
PRKX	Protein kinase, X-linked	
PRNP	Prion protein	
PRPF4	PRP4 pre-mrna processing factor 4 homolog (yeast)	
PRPF40B	PRP40 pre-mrna processing factor 40 homolog B (<i>S. Cerevisiae</i>)	
PRPS2	Phosphoribosyl pyrophosphate synthetase 2	
PRR14L	Proline rich 14-like	
PRR18	Proline rich 18	
PRR5	Proline rich 5 (renal)	
PRRC1	Proline-rich coiled-coil 1	
PRRC2A	Proline-rich coiled-coil 2A	
PRRC2B	Proline-rich coiled-coil 2B	
PRRC2C	Proline-rich coiled-coil 2C	
PRRT1	Proline-rich transmembrane protein 1	
PRRT2	Proline-rich transmembrane protein 2	
PRSS27	Protease, serine 27	
PRSS45	Protease, serine, 45	
PRSS50	Protease, serine, 50	
PSAPL1	Prosaposin-like 1 (gene/pseudogene)	
PSD4	Pleckstrin and Sec7 domain containing 4	
PSKH1	Protein serine kinase H1	
PSMB2	Proteasome (prosome, macropain) subunit, beta type, 2	
PSMD13	Proteasome (prosome, macropain) 26S subunit, non-atpase, 13	
PSMD14	Proteasome (prosome, macropain) 26S subunit, non-atpase, 14	
PSMD4	Proteasome (prosome, macropain) 26S subunit, non-atpase, 4	
PSMD5	Proteasome (prosome, macropain) 26S subunit, non-atpase, 5	
PSMD7	Proteasome (prosome, macropain) 26S subunit, non-atpase, 7	
PTAR1	Protein prenyltransferase alpha subunit repeat containing 1	
PTCD1	Pentatricopeptide repeat domain 1	

PTCH1	Patched 1	
PTER	Phosphotriesterase related	
PTGFRN	Prostaglandin F2 receptor negative regulator	
PTH1R	Parathyroid hormone 1 receptor	
PTK6	PTK6 protein tyrosine kinase 6	
PTK7	PTK7 protein tyrosine kinase 7	
PTMA	Prothymosin, alpha	
PTP4A2	Protein tyrosine phosphatase type IVA, member 2	
PTPLAD1	Protein tyrosine phosphatase-like A domain containing 1	
PTPN13	Protein tyrosine phosphatase, non-receptor type 13 (APO-1/CD95 (Fas)-associated phosphatase)	
PTPN18	Protein tyrosine phosphatase, non-receptor type 18 (brain-derived)	
PTPN21	Protein tyrosine phosphatase, non-receptor type 21	
PTPN4	Protein tyrosine phosphatase, non-receptor type 4 (megakaryocyte)	
PTPN5	Protein tyrosine phosphatase, non-receptor type 5 (striatum-enriched)	
PTPN9	Protein tyrosine phosphatase, non-receptor type 9	
PTPRD	Protein tyrosine phosphatase, receptor type, D	
PTPRF	Protein tyrosine phosphatase, receptor type, F	
PTPRG	Protein tyrosine phosphatase, receptor type, G	
PTPRH	Protein tyrosine phosphatase, receptor type, H	
PTPRN	Protein tyrosine phosphatase, receptor type, N	
PTPRS	Protein tyrosine phosphatase, receptor type, S	
PTPRT	Protein tyrosine phosphatase, receptor type, T	
PTPRU	Protein tyrosine phosphatase, receptor type, U	
PTRF	Polymerase I and transcript release factor	
PUM2	Pumilio homolog 2 (Drosophila)	
PVRL2	Poliovirus receptor-related 2 (herpesvirus entry mediator B)	
PYCR2	Pyrroline-5-carboxylate reductase family, member 2	
PYROXD1	Pyridine nucleotide-disulphide oxidoreductase domain 1	
QPRT	Quinolate phosphoribosyltransferase	
QRFPR	Pyroglutamylated rfamide peptide receptor	
QRICH1	Glutamine-rich 1	
R3HCC1	R3H domain and coiled-coil containing 1	
RAB11FIP4	RAB11 family interacting protein 4 (class II)	
RAB27B	RAB27B, member RAS oncogene family	
RAB2B	RAB2B, member RAS oncogene family	
RAB35	RAB35, member RAS oncogene family	

RAB37	RAB37, member RAS oncogene family	
RAB3B	RAB3B, member RAS oncogene family	
RAB3GAP2	RAB3 gtpase activating protein subunit 2 (non-catalytic)	
RAB3IP	RAB3A interacting protein (rabin3)	
RAB4A	RAB4A, member RAS oncogene family	
RAB7L1	RAB7, member RAS oncogene family-like 1	
RABL2A	RAB, member of RAS oncogene family-like 2A	
RABL5	RAB, member RAS oncogene family-like 5	
RAD1	RAD1 homolog (<i>S. Pombe</i>)	
RAD18	RAD18 homolog (<i>S. Cerevisiae</i>)	
RAD50	RAD50 homolog (<i>S. Cerevisiae</i>)	
RAD51	RAD51 homolog (<i>S. Cerevisiae</i>)	
RAD54L2	RAD54-like 2 (<i>S. Cerevisiae</i>)	
RAG2	Recombination activating gene 2	
RALGPS1	Ral GEF with PH domain and SH3 binding motif 1	
RANBP10	RAN binding protein 10	
RAP1GAP	RAP1 gtpase activating protein	
RAP2A	RAP2A, member of RAS oncogene family	
RARG	Retinoic acid receptor, gamma	
RASAL2	RAS protein activator like 2	
RASGEF1A	Rasgef domain family, member 1A	
RASGRP2	RAS guanyl releasing protein 2 (calcium and DAG-regulated)	
RASGRP4	RAS guanyl releasing protein 4	
RASL10B	RAS-like, family 10, member B	
RASL11B	RAS-like, family 11, member B	
RBBP6	Retinoblastoma binding protein 6	
RBFA	Ribosome binding factor A (putative)	
RBFox2	RNA binding protein, fox-1 homolog (<i>C. Elegans</i>) 2	
RBM27	RNA binding motif protein 27	
RBM33	RNA binding motif protein 33	
RBM38	RNA binding motif protein 38	
RBM39	RNA binding motif protein 39	
RBM43	RNA binding motif protein 43	
RCCD1	RCC1 domain containing 1	
RCN1	Reticulocalbin 1, EF-hand calcium binding domain	
RCOR2	REST corepressor 2	

RDX	Radixin	
REEP1	Receptor accessory protein 1	
REG4	Regenerating islet-derived family, member 4	
REL	V-rel reticuloendotheliosis viral oncogene homolog (avian)	√
RELL1	RELT-like 1	
RELT	RELT tumor necrosis factor receptor	
RERE	Arginine-glutamic acid dipeptide (RE) repeats	
RETSAT	Retinol saturase (all-trans-retinol 13,14-reductase)	
REV1	REV1 homolog (<i>S. Cerevisiae</i>)	
RFC2	Replication factor C (activator 1) 2, 40kda	
RFFL	Ring finger and FYVE-like domain containing 1	
RFK	Riboflavin kinase	
RFPL2	Ret finger protein-like 2	
RFX1	Regulatory factor X, 1 (influences HLA class II expression)	
RFX3	Regulatory factor X, 3 (influences HLA class II expression)	
RGAG4	Retrotransposon gag domain containing 4	
RGN	Regucalcin (senescence marker protein-30)	
RGS11	Regulator of G-protein signaling 11	
RGS14	Regulator of G-protein signaling 14	
RGS7	Regulator of G-protein signaling 7	
RHCE	Rh blood group, ccee antigens	
RHEBL1	Ras homolog enriched in brain like 1	
RHO	Rhodopsin	
RHOD	Ras homolog gene family, member D	
RHOH	Ras homolog gene family, member H	
RIC8B	Resistance to inhibitors of cholinesterase 8 homolog B (<i>C. Elegans</i>)	
RILPL1	Rab interacting lysosomal protein-like 1	
RILPL2	Rab interacting lysosomal protein-like 2	
RIMS1	Regulating synaptic membrane exocytosis 1	
RIOK3	RIO kinase 3 (yeast)	
RIPK4	Receptor-interacting serine-threonine kinase 4	
RNASET2	Ribonuclease T2	
RNF111	Ring finger protein 111	
RNF144B	Ring finger protein 144B	
RNF145	Ring finger protein 145	
RNF152	Ring finger protein 152	

RNF168	Ring finger protein 168	
RNF182	Ring finger protein 182	
RNF19A	Ring finger protein 19A	
RNF213	Ring finger protein 213	
RNF214	Ring finger protein 214	
RNF43	Ring finger protein 43	√
RNFT2	Ring finger protein, transmembrane 2	
RNMTL1	RNA methyltransferase like 1	
RNPEP	Arginyl aminopeptidase (aminopeptidase B)	
ROBO1	Roundabout, axon guidance receptor, homolog 1 (Drosophila)	
ROBO2	Roundabout, axon guidance receptor, homolog 2 (Drosophila)	
ROBO4	Roundabout homolog 4, magic roundabout (Drosophila)	
ROCK1	Rho-associated, coiled-coil containing protein kinase 1	
ROPN1	Rhopilin associated tail protein 1	
ROPN1B	Rhopilin associated tail protein 1B	
ROR2	Receptor tyrosine kinase-like orphan receptor 2	
RORA	RAR-related orphan receptor A	
RP11-111M22.2	Uncharacterized protein	
RP11-1280I22.1	Plasma cell-induced resident endoplasmic reticulum protein	
RP11-	Nuclear pore complex-interacting protein-like 2	
RP11-152F13.5	Golgin subfamily A member 6-like protein 9	
RP11-326A13.2		
RP11-330H6.5	TLR9	
RP11-35N6.1	Lipid phosphate phosphatase-related protein type 1	
RP11-57A19.3	Uncharacterized protein	
RP11-73M18.2	UPF0671 protein c14orf153	
RP3-368B9.1	Uncharacterized protein	
RP4-604K5.1	15 kda selenoprotein	
RP4-788L13.1	Lipid phosphate phosphatase-related protein type 4	
RP5-	Prosap-interacting protein 1	
RPH3A	Rabphilin 3A homolog (mouse)	
RPH3AL	Rabphilin 3A-like (without C2 domains)	
RPIA	Ribose 5-phosphate isomerase A	
RPL10	Ribosomal protein L10	√
RPL23	Ribosomal protein L23	
RPL24	Ribosomal protein L24	

RPL28	Ribosomal protein L28	
RPRD2	Regulation of nuclear pre-mrna domain containing 2	
RPS14	Ribosomal protein S14	
RPS19BP1	Ribosomal protein S19 binding protein 1	
RPS2	Ribosomal protein S2	
RPS3	Ribosomal protein S3	
RPS5	Ribosomal protein S5	
RPS6	Ribosomal protein S6	
RPS6KA1	Ribosomal protein S6 kinase, 90kda, polypeptide 1	
RPS6KL1	Ribosomal protein S6 kinase-like 1	
RPS9	Ribosomal protein S9	
RPTOR	Regulatory associated protein of MTOR, complex 1	
RPUSD4	RNA pseudouridylate synthase domain containing 4	
RRP12	Ribosomal RNA processing 12 homolog (<i>S. Cerevisiae</i>)	
RRP1B	Ribosomal RNA processing 1 homolog B (<i>S. Cerevisiae</i>)	
RRP7A	Ribosomal RNA processing 7 homolog A (<i>S. Cerevisiae</i>)	
RRP8	Ribosomal RNA processing 8, methyltransferase, homolog (yeast)	
RSAD1	Radical S-adenosyl methionine domain containing 1	
RSPH10B2	Radial spoke head 10 homolog B2 (<i>Chlamydomonas</i>)	
RSPH9	Radial spoke head 9 homolog (<i>Chlamydomonas</i>)	
RSPO1	R-spondin 1	
RSRC2	Arginine/serine-rich coiled-coil 2	
RTN2	Reticulon 2	
RUNDC2A	RUN domain-containing protein 2A	√
RUNX1	Runt-related transcription factor 1	√
RUSC2	RUN and SH3 domain containing 2	
RXFP4	Relaxin/insulin-like family peptide receptor 4	
RYR1	Ryanodine receptor 1 (skeletal)	
S100A3	S100 calcium binding protein A3	
S100P	S100 calcium binding protein P	
S100PBP	S100P binding protein	
SACS	Spastic ataxia of Charlevoix-Saguenay (sacsin)	
SAG	S-antigen; retina and pineal gland (arrestin)	
SAMD13	Sterile alpha motif domain containing 13	
SAMD14	Sterile alpha motif domain containing 14	
SAMD5	Sterile alpha motif domain containing 5	

SAMD9L	Sterile alpha motif domain containing 9-like	
SARDH	Sarcosine dehydrogenase	
SART1	Squamous cell carcinoma antigen recognized by T cells	
SASH1	SAM and SH3 domain containing 1	
SATB1	SATB homeobox 1	
SATB2	SATB homeobox 2	
SBF2	SET binding factor 2	
SBNO2	Strawberry notch homolog 2 (Drosophila)	
SCAF11	SR-related CTD-associated factor 11	
SCARA5	Scavenger receptor class A, member 5 (putative)	
SCFD2	Sec1 family domain containing 2	
SCN3A	Sodium channel, voltage-gated, type III, alpha subunit	
SCN4A	Sodium channel, voltage-gated, type IV, alpha subunit	
SCN8A	Sodium channel, voltage gated, type VIII, alpha subunit	
SCNN1D	Sodium channel, nonvoltage-gated 1, delta	
SCRIB	Scribbled homolog (Drosophila)	
SCUBE1	Signal peptide, CUB domain, EGF-like 1	
SCUBE2	Signal peptide, CUB domain, EGF-like 2	
SDC3	Syndecan 3	
SDF4	Stromal cell derived factor 4	
SDK2	Sidekick homolog 2 (chicken)	
SDPR	Serum deprivation response	
SDR42E1	Short chain dehydrogenase/reductase family 42E, member 1	
SDR9C7	Short chain dehydrogenase/reductase family 9C, member 7	
SEC16A	SEC16 homolog A (<i>S. Cerevisiae</i>)	
SEC23A	Sec23 homolog A (<i>S. Cerevisiae</i>)	
SEC63	SEC63 homolog (<i>S. Cerevisiae</i>)	
SEMA4C	Sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain,	
SEMA5A	Sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short	
SEMA6B	Sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6B	
SEMA6D	Sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6D	
SEPT5	Septin 5	
SEPT7	Septin 7	
SEPT9	Septin 9	
SERHL2	Serine hydrolase-like 2	
SERINC3	Serine incorporator 3	

SERPINB6	Serpin peptidase inhibitor, clade B (ovalbumin), member 6	
SERPINH1	Serpin peptidase inhibitor, clade H (heat shock protein 47), member 1, (collagen binding protein 1)	
SESN1	Sestrin 1	
SETBP1	SET binding protein 1	√
SETD1B	SET domain containing 1B	
SETD6	SET domain containing 6	
SEZ6L	Seizure related 6 homolog (mouse)-like	
SF1	Splicing factor 1	
SF3B1	Splicing factor 3b, subunit 1, 155kda	√
SFTPA2	Surfactant protein A2	
SFTPD	Surfactant protein D	
SFXN3	Sideroflexin 3	
SGCD	Sarcoglycan, delta (35kda dystrophin-associated glycoprotein)	
SH2D3C	SH2 domain containing 3C	
SH3BP2	SH3-domain binding protein 2	
SH3BP4	SH3-domain binding protein 4	
SH3GL3	SH3-domain GRB2-like 3	
SH3KBP1	SH3-domain kinase binding protein 1	
SH3PXD2A	SH3 and PX domains 2A	
SH3PXD2B	SH3 and PX domains 2B	
SH3RF1	SH3 domain containing ring finger 1	
SHANK1	SH3 and multiple ankyrin repeat domains 1	
SHANK2	SH3 and multiple ankyrin repeat domains 2	
SHC1	SHC (Src homology 2 domain containing) transforming protein 1	
SHMT1	Serine hydroxymethyltransferase 1 (soluble)	
SHOX2	Short stature homeobox 2	
SHQ1	SHQ1 homolog (S. Cerevisiae)	
SHROOM2	Shroom family member 2	
SHROOM3	Shroom family member 3	
SHROOM4	Shroom family member 4	
SIDT1	SID1 transmembrane family, member 1	
SIDT2	SID1 transmembrane family, member 2	
SIGLEC1	Sialic acid binding Ig-like lectin 1, sialoadhesin	
SIK2	Salt-inducible kinase 2	
SIPA1L1	Signal-induced proliferation-associated 1 like 1	
SIPA1L2	Signal-induced proliferation-associated 1 like 2	

SIPA1L3	Signal-induced proliferation-associated 1 like 3	
SIRPB1	Signal-regulatory protein beta 1	
SIRT1	Sirtuin 1	
SLC12A1	Solute carrier family 12 (sodium/potassium/chloride transporters), member 1	
SLC12A2	Solute carrier family 12 (sodium/potassium/chloride transporters), member 2	
SLC12A9	Solute carrier family 12 (potassium/chloride transporters), member 9	
SLC16A2	Solute carrier family 16, member 2 (monocarboxylic acid transporter 8)	
SLC16A3	Solute carrier family 16, member 3 (monocarboxylic acid transporter 4)	
SLC16A7	Solute carrier family 16, member 7 (monocarboxylic acid transporter 2)	
SLC17A4	Solute carrier family 17 (sodium phosphate), member 4	
SLC17A5	Solute carrier family 17 (anion/sugar transporter), member 5	
SLC18A2	Solute carrier family 18 (vesicular monoamine), member 2	
SLC1A2	Solute carrier family 1 (glial high affinity glutamate transporter), member 2	
SLC1A6	Solute carrier family 1 (high affinity aspartate/glutamate transporter), member 6	
SLC20A2	Solute carrier family 20 (phosphate transporter), member 2	
SLC22A23	Solute carrier family 22, member 23	
SLC23A2	Solute carrier family 23 (nucleobase transporters), member 2	
SLC24A3	Solute carrier family 24 (sodium/potassium/calcium exchanger), member 3	
SLC25A12	Solute carrier family 25 (mitochondrial carrier, Aralar), member 12	
SLC25A14	Solute carrier family 25 (mitochondrial carrier, brain), member 14	
SLC25A17	Solute carrier family 25 (mitochondrial carrier; peroxisomal membrane protein, 34kda), member 17	
SLC25A24	Solute carrier family 25 (mitochondrial carrier; phosphate carrier), member 24	
SLC25A42	Solute carrier family 25, member 42	
SLC25A44	Solute carrier family 25, member 44	
SLC25A45	Solute carrier family 25, member 45	
SLC2A13	Solute carrier family 2 (facilitated glucose transporter), member 13	
SLC2A6	Solute carrier family 2 (facilitated glucose transporter), member 6	
SLC2A7	Solute carrier family 2 (facilitated glucose transporter), member 7	
SLC30A4	Solute carrier family 30 (zinc transporter), member 4	
SLC35A1	Solute carrier family 35 (CMP-sialic acid transporter), member A1	
SLC35A2	Solute carrier family 35 (UDP-galactose transporter), member A2	
SLC35A3	Solute carrier family 35 (UDP-N-acetylglucosamine (UDP-glcnaC) transporter), member A3	
SLC35A4	Solute carrier family 35, member A4	
SLC35B1	Solute carrier family 35, member B1	
SLC35B4	Solute carrier family 35, member B4	
SLC35C1	Solute carrier family 35, member C1	

SLC35F4	Solute carrier family 35, member F4	
SLC36A3	Solute carrier family 36 (proton/amino acid symporter), member 3	
SLC39A13	Solute carrier family 39 (zinc transporter), member 13	
SLC39A7	Solute carrier family 39 (zinc transporter), member 7	
SLC39A8	Solute carrier family 39 (zinc transporter), member 8	
SLC41A1	Solute carrier family 41, member 1	
SLC43A3	Solute carrier family 43, member 3	
SLC46A1	Solute carrier family 46 (folate transporter), member 1	
SLC4A4	Solute carrier family 4, sodium bicarbonate cotransporter, member 4	
SLC4A5	Solute carrier family 4, sodium bicarbonate cotransporter, member 5	
SLC4A9	Solute carrier family 4, sodium bicarbonate cotransporter, member 9	
SLC5A11	Solute carrier family 5 (sodium/glucose cotransporter), member 11	
SLC5A7	Solute carrier family 5 (choline transporter), member 7	
SLC6A12	Solute carrier family 6 (neurotransmitter transporter, betaine/GABA), member 12	
SLC6A13	Solute carrier family 6 (neurotransmitter transporter, GABA), member 13	
SLC6A19	Solute carrier family 6 (neutral amino acid transporter), member 19	
SLC6A20	Solute carrier family 6 (proline IMINO transporter), member 20	
SLC6A3	Solute carrier family 6 (neurotransmitter transporter, dopamine), member 3	
SLC7A11	Solute carrier family 7 (anionic amino acid transporter light chain, xc- system), member 11	
SLC7A14	Solute carrier family 7 (orphan transporter), member 14	
SLC7A6	Solute carrier family 7 (amino acid transporter light chain, y+L system), member 6	
SLC7A8	Solute carrier family 7 (amino acid transporter light chain, L system), member 8	
SLC9A1	Solute carrier family 9 (sodium/hydrogen exchanger), member 1	
SLC9A3R1	Solute carrier family 9 (sodium/hydrogen exchanger), member 3 regulator 1	
SLCO1C1	Solute carrier organic anion transporter family, member 1C1	
SLCO2B1	Solute carrier organic anion transporter family, member 2B1	
SLCO4A1	Solute carrier organic anion transporter family, member 4A1	
SLFN14	Schlafen family member 14	
SMAD2	SMAD family member 2	
SMARCA4	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 4	√
SMC1A	Structural maintenance of chromosomes 1A	
SMC3	Structural maintenance of chromosomes 3	
SMCHD1	Structural maintenance of chromosomes flexible hinge domain containing 1	
SMCR8	Smith-Magenis syndrome chromosome region, candidate 8	
SMG7	Smg-7 homolog, nonsense mediated mrna decay factor (<i>C. Elegans</i>)	
SMG9	Smg-9 homolog, nonsense mediated mrna decay factor (<i>C. Elegans</i>)	

SMPD3	Sphingomyelin phosphodiesterase 3, neutral membrane (neutral sphingomyelinase II)	
SMTNL2	Smoothelin-like 2	
SMURF1	SMAD specific E3 ubiquitin protein ligase 1	
SNAP29	Synaptosomal-associated protein, 29 kDa	
SNAP47	Synaptosomal-associated protein, 47 kDa	
SNAP91	Synaptosomal-associated protein, 91 kDa homolog (mouse)	
SNRNP200	Small nuclear ribonucleoprotein 200 kDa (U5)	
SNRNP70	Small nuclear ribonucleoprotein 70 kDa (U1)	
SNRPG	Small nuclear ribonucleoprotein polypeptide G	
SNTB2	Syntrophin, beta 2 (dystrophin-associated protein A1, 59 kDa, basic component 2)	
SNUPN	Snurportin 1	
SNX15	Sorting nexin 15	
SNX22	Sorting nexin 22	
SNX32	Sorting nexin 32	
SOCS2	Suppressor of cytokine signaling 2	
SOCS6	Suppressor of cytokine signaling 6	
SOX8	SRY (sex determining region Y)-box 8	
SP1	Sp1 transcription factor	
SP2	Sp2 transcription factor	
SP4	Sp4 transcription factor	
SPACA3	Sperm acrosome associated 3	
SPAG1	Sperm associated antigen 1	
SPAG6	Sperm associated antigen 6	
SPAG9	Sperm associated antigen 9	
SPATA13	Spermatogenesis associated 13	
SPATS2L	Spermatogenesis associated, serine-rich 2-like	
SPCS2	Signal peptidase complex subunit 2 homolog (<i>S. Cerevisiae</i>)	
SPDYE3	Speedy homolog E3 (<i>Xenopus laevis</i>)	
SPECC1	Sperm antigen with calponin homology and coiled-coil domains 1	
SPG20	Spastic paraplegia 20 (Troyer syndrome)	
SPIN2A	Spindlin family, member 2A	
SPIN2B	Spindlin family, member 2B	
SPOCD1	SPOC domain containing 1	
SPOCK2	Sparc/osteonectin, cwcv and kazal-like domains proteoglycan (testican) 2	
SPRED1	Sprouty-related, EVH1 domain containing 1	
SPRY3	Sprouty homolog 3 (<i>Drosophila</i>)	

SPRYD7	SPRY domain containing 7	
SPTLC1	Serine palmitoyltransferase, long chain base subunit 1	
SRC	V-src sarcoma (Schmidt-Ruppin A-2) viral oncogene homolog (avian)	
SRCAP	Snf2-related CREBBP activator protein	
SRCRB4D	Scavenger receptor cysteine rich domain containing, group B (4 domains)	
SREK1	Splicing regulatory glutamine/lysine-rich protein 1	
SRF	Serum response factor (c-fos serum response element-binding transcription factor)	
SRGAP2	SLIT-ROBO Rho gtpase activating protein 2	
SRL	Sarcalumenin	
SRM	Spermidine synthase	
SSTR2	Somatostatin receptor 2	
ST3GAL2	ST3 beta-galactoside alpha-2,3-sialyltransferase 2	
ST3GAL4	ST3 beta-galactoside alpha-2,3-sialyltransferase 4	
ST6GALNAC2	ST6 (alpha-N-acetyl-neuraminyl-2,3-beta-galactosyl-1,3)-N-acetylgalactosaminide alpha-2,6-sialyltransferase 2	
ST6GALNAC6	ST6 (alpha-N-acetyl-neuraminyl-2,3-beta-galactosyl-1,3)-N-acetylgalactosaminide alpha-2,6-sialyltransferase 6	
ST8SIA2	ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 2	
ST8SIA4	ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 4	
STAB1	Stabilin 1	
STAG3L2	Stromal antigen 3-like 2	
STAG3L3	Stromal antigen 3-like 3	
STAR	Steroidogenic acute regulatory protein	
STARD13	Star-related lipid transfer (START) domain containing 13	
STARD4	Star-related lipid transfer (START) domain containing 4	
STARD9	Star-related lipid transfer (START) domain containing 9	
STAT3	Signal transducer and activator of transcription 3 (acute-phase response factor)	√
STK35	Serine/threonine kinase 35	
STMN1	Stathmin 1	
STMN3	Stathmin-like 3	
STON1	Stonin 1	
STON2	Stonin 2	
STRC	Stereocilin	
STRN	Striatin, calmodulin binding protein	
STX7	Syntaxin 7	
STYK1	Serine/threonine/tyrosine kinase 1	
SUB1	SUB1 homolog (S. Cerevisiae)	
SUFU	Suppressor of fused homolog (Drosophila)	√

SUGP2	SURP and G patch domain containing 2	
SUN2	Sad1 and UNC84 domain containing 2	
SUOX	Sulfite oxidase	
SUPT6H	Suppressor of Ty 6 homolog (<i>S. Cerevisiae</i>)	
SURF6	Surfeit 6	
SUV39H1	Suppressor of variegation 3-9 homolog 1 (<i>Drosophila</i>)	
SV2B	Synaptic vesicle glycoprotein 2B	
SV2C	Synaptic vesicle glycoprotein 2C	
SVEP1	Sushi, von Willebrand factor type A, EGF and pentraxin domain containing 1	
SVIL	Supervillin	
SYCE2	Synaptonemal complex central element protein 2	
SYCE3	Synaptonemal complex central element protein 3	
SYMPK	Symplekin	
SYNCRIP	Synaptotagmin binding, cytoplasmic RNA interacting protein	
SYNE1	Spectrin repeat containing, nuclear envelope 1	
SYNE2	Spectrin repeat containing, nuclear envelope 2	
SYNPO	Synaptopodin	
SYNPO2	Synaptopodin 2	
SYNPO2L	Synaptopodin 2-like	
SYT12	Synaptotagmin XII	
SYTL1	Synaptotagmin-like 1	
TACC2	Transforming, acidic coiled-coil containing protein 2	
TACR3	Tachykinin receptor 3	
TADA2B	Transcriptional adaptor 2B	
TAF1	TAF1 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 250 kDa	
TAF15	TAF15 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 68 kDa	√
TAF1A	TATA box binding protein (TBP)-associated factor, RNA polymerase I, A, 48 kDa	
TAF1L	TAF1 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 210 kDa-like	
TAMM41	TAM41, mitochondrial translocator assembly and maintenance protein, homolog (<i>S. Cerevisiae</i>)	
TANC2	Tetratricopeptide repeat, ankyrin repeat and coiled-coil containing 2	
TAPBPL	TAP binding protein-like	
TARS2	Threonyl-trna synthetase 2, mitochondrial (putative)	
TAS2R20	Taste receptor, type 2, member 20	
TBC1D22A	TBC1 domain family, member 22A	
TBC1D2B	TBC1 domain family, member 2B	
TBCC	Tubulin folding cofactor C	

TBL2	Transducin (beta)-like 2	
TBPL1	TBP-like 1	
TBRG4	Transforming growth factor beta regulator 4	
TBX1	T-box 1	
TCEA1	Transcription elongation factor A (SII), 1	√
TCEAL5	Transcription elongation factor A (SII)-like 5	
TCEB3B	Transcription elongation factor B polypeptide 3B (elongin A2)	
TCF20	Transcription factor 20 (AR1)	
TCF3	Transcription factor 3 (E2A immunoglobulin enhancer binding factors E12/E47)	√
TCOF1	Treacher Collins-Franceschetti syndrome 1	
TCP11	T-complex 11 homolog (mouse)	
TCP11L2	T-complex 11 (mouse)-like 2	
TCTEX1D4	Tctex1 domain containing 4	
TDG	Thymine-DNA glycosylase	
TDRD3	Tudor domain containing 3	
TDRD6	Tudor domain containing 6	
TECRL	Trans-2,3-enoyl-coa reductase-like	
TEP1	Telomerase-associated protein 1	
TERF1	Telomeric repeat binding factor (NIMA-interacting) 1	
TET1	Tet methylcytosine dioxygenase 1	
TET3	Tet methylcytosine dioxygenase 3	
TEX101	Testis expressed 101	
TEX264	Testis expressed 264	
TFAP2D	Transcription factor AP-2 delta (activating enhancer binding protein 2 delta)	
TFCP2L1	Transcription factor CP2-like 1	
TFEB	Transcription factor EB	√
TGFB3	Transforming growth factor, beta 3	
TGFBR2	Transforming growth factor, beta receptor II (70/80 kDa)	
TGS1	Trimethylguanosine synthase 1	
THAP8	THAP domain containing 8	
THBD	Thrombomodulin	
THBS3	Thrombospondin 3	
THBS4	Thrombospondin 4	
THEMIS	Thymocyte selection associated	
THG1L	Trna-histidine guanylyltransferase 1-like (<i>S. Cerevisiae</i>)	
THOC5	THO complex 5	

THRA	Thyroid hormone receptor, alpha	
THSD4	Thrombospondin, type I, domain containing 4	
THSD7A	Thrombospondin, type I, domain containing 7A	
TICAM1	Toll-like receptor adaptor molecule 1	
TIGD1	Tigger transposable element derived 1	
TIGD2	Tigger transposable element derived 2	
TIGD3	Tigger transposable element derived 3	
TIMM50	Translocase of inner mitochondrial membrane 50 homolog (<i>S. Cerevisiae</i>)	
TJP2	Tight junction protein 2 (zona occludens 2)	
TKTL1	Transketolase-like 1	
TLK2	Tousled-like kinase 2	
TLN2	Talin 2	
TLR6	Toll-like receptor 6	
TLR9	Toll-like receptor 9	
TM4SF5	Transmembrane 4 L six family member 5	
TM7SF3	Transmembrane 7 superfamily member 3	
TMC7	Transmembrane channel-like 7	
TMCC3	Transmembrane and coiled-coil domain family 3	
TMED1	Transmembrane emp24 protein transport domain containing 1	
TMEM100	Transmembrane protein 100	
TMEM102	Transmembrane protein 102	
TMEM104	Transmembrane protein 104	
TMEM106B	Transmembrane protein 106B	
TMEM108	Transmembrane protein 108	
TMEM115	Transmembrane protein 115	
TMEM139	Transmembrane protein 139	
TMEM156	Transmembrane protein 156	
TMEM164	Transmembrane protein 164	
TMEM215	Transmembrane protein 215	
TMEM22	Transmembrane protein 22	
TMEM229A	Transmembrane protein 229A	
TMEM229B	Transmembrane protein 229B	
TMEM233	Transmembrane protein 233	
TMEM234	Transmembrane protein 234	
TMEM25	Transmembrane protein 25	
TMEM30C	Transmembrane protein 30C	

TMEM41B	Transmembrane protein 41B	
TMEM45B	Transmembrane protein 45B	
TMEM63A	Transmembrane protein 63A	
TMEM72	Transmembrane protein 72	
TMEM8A	Transmembrane protein 8A	
TMOD2	Tropomodulin 2 (neuronal)	
TMPRSS3	Transmembrane protease, serine 3	
TMTC2	Transmembrane and tetratricopeptide repeat containing 2	
TNC	Tenascin C	
TNFRSF18	Tumor necrosis factor receptor superfamily, member 18	
TNIK	TRAF2 and NCK interacting kinase	
TNIP1	TNFAIP3 interacting protein 1	
TNKS1BP1	Tankyrase 1 binding protein 1, 182kda	
TNR	Tenascin R (restrictin, janusin)	
TNRC18	Trinucleotide repeat containing 18	
TNRC6A	Trinucleotide repeat containing 6A	
TNRC6C	Trinucleotide repeat containing 6C	
TNXB	Tenascin XB	
TOMM70A	Translocase of outer mitochondrial membrane 70 homolog A (<i>S. Cerevisiae</i>)	
TOP3A	Topoisomerase (DNA) III alpha	
TOX	Thymocyte selection-associated high mobility group box	
TP63	Tumor protein p63	
TP73	Tumor protein p73	
TPCN2	Two pore segment channel 2	
TPO	Thyroid peroxidase	
TPT1	Tumor protein, translationally-controlled 1	
TPX2	TPX2, microtubule-associated, homolog (<i>Xenopus laevis</i>)	
TRAF4	TNF receptor-associated factor 4	
TRAP1	TNF receptor-associated protein 1	
TRBV20-1	T cell receptor beta variable 20-1	
TREML4	Triggering receptor expressed on myeloid cells-like 4	
TRIB1	Tribbles homolog 1 (<i>Drosophila</i>)	
TRIM14	Tripartite motif containing 14	
TRIM21	Tripartite motif containing 21	
TRIM24	Tripartite motif containing 24	
TRIM25	Tripartite motif containing 25	

TRIM28	Tripartite motif containing 28	
TRIM3	Tripartite motif containing 3	
TRIM31	Tripartite motif containing 31	
TRIM33	Tripartite motif containing 33	
TRIM41	Tripartite motif containing 41	
TRIM42	Tripartite motif containing 42	
TRIM44	Tripartite motif containing 44	
TRIM52	Tripartite motif containing 52	
TRIM56	Tripartite motif containing 56	
TRIM65	Tripartite motif containing 65	
TRIP6	Thyroid hormone receptor interactor 6	
TRMT1	TRM1 trna methyltransferase 1 homolog (<i>S. Cerevisiae</i>)	
TRMT61A	Trna methyltransferase 61 homolog A (<i>S. Cerevisiae</i>)	
TRNAU1AP	Trna selenocysteine 1 associated protein 1	
TRO	Trophinin	
TROVE2	TROVE domain family, member 2	
TRPM4	Transient receptor potential cation channel, subfamily M, member 4	
TRPM5	Transient receptor potential cation channel, subfamily M, member 5	
TRPM7	Transient receptor potential cation channel, subfamily M, member 7	
TRPM8	Transient receptor potential cation channel, subfamily M, member 8	
TRUB1	Trub pseudouridine (psi) synthase homolog 1 (<i>E. Coli</i>)	
TRUB2	Trub pseudouridine (psi) synthase homolog 2 (<i>E. Coli</i>)	
TSC1	Tuberous sclerosis 1	√
TSHZ1	Teashirt zinc finger homeobox 1	
TSHZ2	Teashirt zinc finger homeobox 2	
TSKU	Tsukushi small leucine rich proteoglycan homolog (<i>Xenopus laevis</i>)	
TSN	Translin	
TSNARE1	T-SNARE domain containing 1	
TSPAN11	Tetraspanin 11	
TSPAN15	Tetraspanin 15	
TSPAN3	Tetraspanin 3	
TSPAN31	Tetraspanin 31	
TSPAN5	Tetraspanin 5	
TSPAN9	Tetraspanin 9	
TSPEAR	Thrombospondin-type laminin G domain and EAR repeats	
TSPYL4	TSPY-like 4	

TSSC4	Tumor suppressing subtransferable candidate 4	
TSTD2	Thiosulfate sulfurtransferase (rhodanese)-like domain containing 2	
TTBK2	Tau tubulin kinase 2	
TTC21B	Tetratricopeptide repeat domain 21B	
TTC22	Tetratricopeptide repeat domain 22	
TTC3	Tetratricopeptide repeat domain 3	
TTC31	Tetratricopeptide repeat domain 31	
TTC38	Tetratricopeptide repeat domain 38	
TTC8	Tetratricopeptide repeat domain 8	
TTF1	Transcription termination factor, RNA polymerase I	
TTLL1	Tubulin tyrosine ligase-like family, member 1	
TTLL11	Tubulin tyrosine ligase-like family, member 11	
TTLL3	Tubulin tyrosine ligase-like family, member 3	
TTLL8	Tubulin tyrosine ligase-like family, member 8	
TTN	Titin	
TTPAL	Tocopherol (alpha) transfer protein-like	
TTYH1	Tweety homolog 1 (Drosophila)	
TUB	Tubby homolog (mouse)	
TUBA4A	Tubulin, alpha 4a	
TUBGCP6	Tubulin, gamma complex associated protein 6	
TULP4	Tubby like protein 4	
TXN2	Thioredoxin 2	
TXNRD1	Thioredoxin reductase 1	
TYRO3	TYRO3 protein tyrosine kinase	
TYW5	Trna-yw synthesizing protein 5	
U2AF1L4	U2 small nuclear RNA auxiliary factor 1-like 4	
UAP1L1	UDP-N-acetylglucosamine pyrophosphorylase 1-like 1	
UBA1	Ubiquitin-like modifier activating enzyme 1	
UBA3	Ubiquitin-like modifier activating enzyme 3	
UBA5	Ubiquitin-like modifier activating enzyme 5	
UBA7	Ubiquitin-like modifier activating enzyme 7	
UBASH3B	Ubiquitin associated and SH3 domain containing B	
UBC	Ubiquitin C	
UBE2CBP	Ubiquitin-conjugating enzyme E2C binding protein	
UBE2G2	Ubiquitin-conjugating enzyme E2G 2	
UBE2H	Ubiquitin-conjugating enzyme E2H	

UBE2L3	Ubiquitin-conjugating enzyme E2L 3	
UBN1	Ubinuclein 1	
UBQLN1	Ubiquilin 1	
UBQLN3	Ubiquilin 3	
UBR4	Ubiquitin protein ligase E3 component n-recognin 4	
UBR5	Ubiquitin protein ligase E3 component n-recognin 5	√
UBTF	Upstream binding transcription factor, RNA polymerase I	
UBXN2A	UBX domain protein 2A	
UCK1	Uridine-cytidine kinase 1	
UFM1	Ubiquitin-fold modifier 1	
UGT3A1	UDP glycosyltransferase 3 family, polypeptide A1	
UGT8	UDP glycosyltransferase 8	
UHRF1BP1	UHRF1 binding protein 1	
ULBP1	UL16 binding protein 1	
ULK3	Unc-51-like kinase 3 (<i>C. Elegans</i>)	
UMOD	Uromodulin	
UNC5A	Unc-5 homolog A (<i>C. Elegans</i>)	
UNC5B	Unc-5 homolog B (<i>C. Elegans</i>)	
UNC5C	Unc-5 homolog C (<i>C. Elegans</i>)	
UNC5CL	Unc-5 homolog C (<i>C. Elegans</i>)-like	
UPK1A	Uroplakin 1A	
UPK2	Uroplakin 2	
UQCC	Ubiquinol-cytochrome c reductase complex chaperone	
UQCRC2	Ubiquinol-cytochrome c reductase core protein II	
UROC1	Urocanase domain containing 1	
USH1C	Usher syndrome 1C (autosomal recessive, severe)	
USHBP1	Usher syndrome 1C binding protein 1	
USP10	Ubiquitin specific peptidase 10	
USP31	Ubiquitin specific peptidase 31	
USP37	Ubiquitin specific peptidase 37	
USP4	Ubiquitin specific peptidase 4 (proto-oncogene)	
USP43	Ubiquitin specific peptidase 43	
USP6	Ubiquitin specific peptidase 6 (Tre-2 oncogene)	√
USP9X	Ubiquitin specific peptidase 9, X-linked	
USP9Y	Ubiquitin specific peptidase 9, Y-linked	
UTP23	UTP23, small subunit (SSU) processome component, homolog (yeast)	

UTS2	Urotensin 2	
UTY	Ubiquitously transcribed tetratricopeptide repeat gene, Y-linked	
UVRAG	UV radiation resistance associated gene	
UXS1	UDP-glucuronate decarboxylase 1	
VAMP1	Vesicle-associated membrane protein 1 (synaptobrevin 1)	
VAMP2	Vesicle-associated membrane protein 2 (synaptobrevin 2)	
VARS	Valyl-trna synthetase	
VAV2	Vav 2 guanine nucleotide exchange factor	
VCL	Vinculin	
VCPIP1	Valosin containing protein (p97)/p47 complex interacting protein 1	
VGLL1	Vestigial like 1 (Drosophila)	
VHL	Von Hippel-Lindau tumor suppressor	√
VILL	Villin-like	
VIM	Vimentin	
VIPR2	Vasoactive intestinal peptide receptor 2	
VIT	Vitrin	
VMA21	VMA21 vacuolar H ⁺ -atpase homolog (<i>S. Cerevisiae</i>)	
VPS13B	Vacuolar protein sorting 13 homolog B (yeast)	
VPS13D	Vacuolar protein sorting 13 homolog D (<i>S. Cerevisiae</i>)	
VPS18	Vacuolar protein sorting 18 homolog (<i>S. Cerevisiae</i>)	
VPS4A	Vacuolar protein sorting 4 homolog A (<i>S. Cerevisiae</i>)	
VPS4B	Vacuolar protein sorting 4 homolog B (<i>S. Cerevisiae</i>)	
VRK3	Vaccinia related kinase 3	
VSIG10L	V-set and immunoglobulin domain containing 10 like	
VSTM2A	V-set and transmembrane domain containing 2A	
VWA3A	Von Willebrand factor A domain containing 3A	
VWA5A	Von Willebrand factor A domain containing 5A	
WAPAL	Wings apart-like homolog (Drosophila)	
WBSCR17	Williams-Beuren syndrome chromosome region 17	
WBSCR22	Williams Beuren syndrome chromosome region 22	
WDFY4	WDFY family member 4	
WDR17	WD repeat domain 17	
WDR3	WD repeat domain 3	
WDR34	WD repeat domain 34	
WDR47	WD repeat domain 47	
WDR60	WD repeat domain 60	

WDR70	WD repeat domain 70	
WDR82	WD repeat domain 82	
WDR90	WD repeat domain 90	
WDR91	WD repeat domain 91	
WHSC1L1	Wolf-Hirschhorn syndrome candidate 1-like 1	√
WIPF3	WAS/WASL interacting protein family, member 3	
WIZ	Widely interspaced zinc finger motifs	
WNK2	WNK lysine deficient protein kinase 2	
WNK3	WNK lysine deficient protein kinase 3	
WNT1	Wingless-type MMTV integration site family, member 1	
WNT4	Wingless-type MMTV integration site family, member 4	
WNT7B	Wingless-type MMTV integration site family, member 7B	
WNT9A	Wingless-type MMTV integration site family, member 9A	
WNT9B	Wingless-type MMTV integration site family, member 9B	
WWC3	WWC family member 3	
XIAP	X-linked inhibitor of apoptosis	
XKR4	XK, Kell blood group complex subunit-related family, member 4	
XPO5	Exportin 5	
XPO7	Exportin 7	
XPOT	Exportin, tRNA (nuclear export receptor for tRNAs)	
XRRA1	X-ray radiation resistance associated 1	
XXbac-	Uncharacterized proteinuncharacterized proteincdna FLJ55673, highly similar to Complement factor B	
XXbac-	HCG43720, isoform CRA_ alymphocyte antigen 6 complex, locus g6dlymphocyte antigen 6 complex, locus	
YAP1	Yes-associated protein 1	
YBX1	Y box binding protein 1	
YBX2	Y box binding protein 2	
YEATS2	YEATS domain containing 2	
YES1	V-yes-1 Yamaguchi sarcoma viral oncogene homolog 1	
YWHAE	Tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, epsilon polypeptide	√
YWHAG	Tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, gamma polypeptide	
YY1AP1	YY1 associated protein 1	
ZBED4	Zinc finger, BED-type containing 4	
ZBTB11	Zinc finger and BTB domain containing 11	
ZBTB40	Zinc finger and BTB domain containing 40	
ZBTB47	Zinc finger and BTB domain containing 47	
ZBTB48	Zinc finger and BTB domain containing 48	

ZBTB7A	Zinc finger and BTB domain containing 7A	
ZBTB80S	Zinc finger and BTB domain containing 8 opposite strand	
ZC3H10	Zinc finger CCCH-type containing 10	
ZC3H12A	Zinc finger CCCH-type containing 12A	
ZC3H3	Zinc finger CCCH-type containing 3	
ZC3H6	Zinc finger CCCH-type containing 6	
ZCCHC14	Zinc finger, CCHC domain containing 14	
ZCCHC9	Zinc finger, CCHC domain containing 9	
ZDHHC1	Zinc finger, DHHC-type containing 1	
ZDHHC14	Zinc finger, DHHC-type containing 14	
ZDHHC15	Zinc finger, DHHC-type containing 15	
ZDHHC22	Zinc finger, DHHC-type containing 22	
ZDHHC23	Zinc finger, DHHC-type containing 23	
ZDHHC3	Zinc finger, DHHC-type containing 3	
ZFAND3	Zinc finger, AN1-type domain 3	
ZFC3H1	Zinc finger, C3H1-type containing	
ZFHX3	Zinc finger homeobox 3	
ZFHX4	Zinc finger homeobox 4	
ZFP106	Zinc finger protein 106 homolog (mouse)	
ZFP41	Zinc finger protein 41 homolog (mouse)	
ZFP90	Zinc finger protein 90 homolog (mouse)	
ZFR	Zinc finger RNA binding protein	
ZFYVE20	Zinc finger, FYVE domain containing 20	
ZFYVE28	Zinc finger, FYVE domain containing 28	
ZIC3	Zic family member 3	
ZKSCAN1	Zinc finger with KRAB and SCAN domains 1	
ZMIZ1	Zinc finger, MIZ-type containing 1	
ZNF107	Zinc finger protein 107	
ZNF131	Zinc finger protein 131	
ZNF143	Zinc finger protein 143	
ZNF197	Zinc finger protein 197	
ZNF212	Zinc finger protein 212	
ZNF214	Zinc finger protein 214	
ZNF217	Zinc finger protein 217	
ZNF23	Zinc finger protein 23 (KOX 16)	
ZNF26	Zinc finger protein 26	

ZNF275	Zinc finger protein 275	
ZNF276	Zinc finger protein 276	
ZNF277	Zinc finger protein 277	
ZNF3	Zinc finger protein 3	
ZNF300	Zinc finger protein 300	
ZNF304	Zinc finger protein 304	
ZNF346	Zinc finger protein 346	
ZNF35	Zinc finger protein 35	
ZNF354B	Zinc finger protein 354B	
ZNF365	Zinc finger protein 365	
ZNF385A	Zinc finger protein 385A	
ZNF394	Zinc finger protein 394	
ZNF426	Zinc finger protein 426	
ZNF445	Zinc finger protein 445	
ZNF462	Zinc finger protein 462	
ZNF471	Zinc finger protein 471	
ZNF483	Zinc finger protein 483	
ZNF485	Zinc finger protein 485	
ZNF496	Zinc finger protein 496	
ZNF497	Zinc finger protein 497	
ZNF507	Zinc finger protein 507	
ZNF510	Zinc finger protein 510	
ZNF512B	Zinc finger protein 512B	
ZNF519	Zinc finger protein 519	
ZNF521	Zinc finger protein 521	
ZNF527	Zinc finger protein 527	
ZNF536	Zinc finger protein 536	
ZNF544	Zinc finger protein 544	
ZNF609	Zinc finger protein 609	
ZNF616	Zinc finger protein 616	
ZNF628	Zinc finger protein 628	
ZNF638	Zinc finger protein 638	
ZNF644	Zinc finger protein 644	
ZNF662	Zinc finger protein 662	
ZNF665	Zinc finger protein 665	
ZNF683	Zinc finger protein 683	

ZNF687	Zinc finger protein 687	
ZNF70	Zinc finger protein 70	
ZNF701	Zinc finger protein 701	
ZNF704	Zinc finger protein 704	
ZNF710	Zinc finger protein 710	
ZNF711	Zinc finger protein 711	
ZNF713	Zinc finger protein 713	
ZNF765	Zinc finger protein 765	
ZNF776	Zinc finger protein 776	
ZNF778	Zinc finger protein 778	
ZNF813	Zinc finger protein 813	
ZNRF3	Zinc and ring finger 3	
ZNRF4	Zinc and ring finger 4	
ZP4	Zona pellucida glycoprotein 4	
ZRANB1	Zinc finger, RAN-binding domain containing 1	
ZSCAN2	Zinc finger and SCAN domain containing 2	
ZSCAN29	Zinc finger and SCAN domain containing 29	
ZSCAN5A	Zinc finger and SCAN domain containing 5A	
ZSWIM1	Zinc finger, SWIM-type containing 1	
ZSWIM6	Zinc finger, SWIM-type containing 6	
ZSWIM7	Zinc finger, SWIM-type containing 7	
ZYG11B	Zyg-11 homolog B (<i>C. Elegans</i>)	