

459 unique TargetsDEGs SPMODC

ID	Entrez Gene Name	Expr False Discovery Rate (q-value)	Expr Fold Change	Location	Type(s)
AAR2	AAR2 splicing factor	2.81E-04	2.815	Other	other
ABCD1	ATP binding cassette subfamily D member 1	2.81E-04	-2.123	Plasma Membrane	transporter
ABCD3	ATP binding cassette subfamily D member 3	2.81E-04	5.245	Cytoplasm	transporter
ABI3	ABI family member 3	2.95E-02	2.27	Plasma Membrane	other
ACADM	acyl-CoA dehydrogenase medium chain	2.81E-04	-2.78	Cytoplasm	enzyme
ACP2	acid phosphatase 2, lysosomal	2.81E-04	21.171	Cytoplasm	phosphatase
ACTR2	actin related protein 2	1.49E-03	1.808	Plasma Membrane	other
ADAM8	ADAM metallopeptidase domain 8	2.81E-04	-2.969	Plasma Membrane	peptidase
Adamdec1	ADAM like decysin 1	2.81E-04	-20.606	Extracellular Space	peptidase
ADD3	adducin 3	2.81E-04	-44.88	Cytoplasm	other
ADGRE5	adhesion G protein-coupled receptor E5	2.81E-04	-9.396	Plasma Membrane	G-protein coupled receptor
ADORA2B	adenosine A2b receptor	2.81E-04	4.75	Plasma Membrane	G-protein coupled receptor
AGFG1	ArfGAP with FG repeats 1	2.81E-04	2.447	Nucleus	other
AK2	adenylate kinase 2	2.81E-04	2.551	Cytoplasm	kinase
AKR1A1	aldo-keto reductase family 1 member A1	2.81E-04	5.13	Cytoplasm	enzyme
AKT3	AKT serine/threonine kinase 3	4.30E-02	1.725	Cytoplasm	kinase
ANKRD10	ankyrin repeat domain 10	2.81E-04	-2.676	Nucleus	transcription regulator
ANKRD13A	ankyrin repeat domain 13A	3.00E-03	-1.697	Plasma Membrane	other
ANPEP	alanyl aminopeptidase, membrane	9.81E-03	164.62	Plasma Membrane	peptidase
ANXA1	annexin A1	2.81E-04	-13.288	Plasma Membrane	enzyme
AP1B1	adaptor related protein complex 1 subunit beta 1	1.45E-02	1.57	Cytoplasm	other
AREL1	apoptosis resistant E3 ubiquitin protein ligase 1	1.03E-03	2.155	Cytoplasm	enzyme
ARF3	ADP ribosylation factor 3	5.40E-04	1.852	Cytoplasm	enzyme
ARHGAP19	Rho GTPase activating protein 19	1.03E-03	10.785	Cytoplasm	other
ARHGDI1	Rho GDP dissociation inhibitor alpha	1.03E-03	1.893	Cytoplasm	other
ARID4A	AT-rich interaction domain 4A	2.89E-02	-1.509	Nucleus	transcription regulator
ARL1	ADP ribosylation factor like GTPase 1	2.81E-04	2.385	Cytoplasm	enzyme
ARL10	ADP ribosylation factor like GTPase 10	1.29E-02	-1.648	Other	other
ARRB1	arrestin beta 1	2.81E-04	-4.949	Cytoplasm	other
ASB13	ankyrin repeat and SOCS box containing 13	2.81E-04	2.4	Cytoplasm	other
ATOX1	antioxidant 1 copper chaperone	7.09E-03	1.636	Cytoplasm	transporter
ATP5MC3	ATP synthase membrane subunit c locus 3	2.81E-04	2.53	Cytoplasm	transporter
ATP5PO	ATP synthase peripheral stalk subunit OSCP	2.81E-04	2.242	Cytoplasm	transporter
ATP6AP2	ATPase H+ transporting accessory protein 2	2.81E-04	3.742	Cytoplasm	transporter
ATP6V1F	ATPase H+ transporting V1 subunit F	5.00E-03	1.609	Cytoplasm	enzyme
ATP6V1H	ATPase H+ transporting V1 subunit H	2.81E-04	3.813	Cytoplasm	transporter
B4galt5	beta-1,4-galactosyltransferase 5	1.45E-02	2.17	Cytoplasm	enzyme
BCL2L1	BCL2 like 1	2.81E-04	12.693	Cytoplasm	other
BCL3	BCL3 transcription coactivator	2.81E-04	4.121	Nucleus	transcription regulator
Bex3	brain expressed X-linked 3	2.81E-04	2.888	Cytoplasm	other
BNIP2	BCL2 interacting protein 2	7.09E-03	1.659	Cytoplasm	other
BNIP3L	BCL2 interacting protein 3 like	2.81E-04	-4.144	Cytoplasm	other
BRC3	BRCA1/BRCA2-containing complex subunit 3	2.81E-04	2.696	Nucleus	enzyme
BTA1	B-TFIID TATA-box binding protein associated factor 1	2.81E-04	2.094	Nucleus	transcription regulator
BTG1	BTG anti-proliferation factor 1	2.81E-04	-3.134	Nucleus	transcription regulator
BTG2	BTG anti-proliferation factor 2	2.81E-04	-7.428	Nucleus	transcription regulator
C1orf54	chromosome 18 open reading frame 54	2.81E-04	7.781	Extracellular Space	other
C1orf162	chromosome 1 open reading frame 162	7.28E-03	-1.619	Other	transporter
C1QBP	complement C1q binding protein	2.81E-04	2.402	Cytoplasm	transcription regulator
C1QC	complement C1q C chain	2.81E-04	174.369	Extracellular Space	other
C5orf30	chromosome 5 open reading frame 30	2.14E-02	-1.554	Cytoplasm	other
C6orf89	chromosome 6 open reading frame 89	3.62E-03	1.695	Cytoplasm	other
C9orf85	chromosome 9 open reading frame 85	1.60E-02	1.644	Other	other
CABLES2	Cdk5 and Abl enzyme substrate 2	2.81E-04	-1.96	Other	other
CACUL1	CDK2 associated cullin domain 1	5.40E-04	1.925	Other	other
CALCO1	calcium binding and coiled-coil domain 1	2.81E-04	-5.84	Nucleus	transcription regulator

CAMK2D	calcium/calmodulin dependent protein kinase II delta	2.81E-04	2.048	Cytoplasm	kinase
CAPN7	calpain 7	6.53E-03	-1.646	Cytoplasm	peptidase
CAPRN1	cell cycle associated protein 1	2.81E-04	2.393	Plasma Membrane	other
CAPZA2	capping actin protein of muscle Z-line subunit alpha 2	2.81E-04	2.665	Cytoplasm	other
CARS2	cysteinyl-tRNA synthetase 2, mitochondrial	1.09E-02	-1.752	Cytoplasm	enzyme
CASP3	caspase 3	2.81E-04	-1.889	Cytoplasm	peptidase
CASP7	caspase 7	2.81E-04	2.354	Cytoplasm	peptidase
CBLB	Cbl proto-oncogene B	2.81E-04	-2.641	Nucleus	enzyme
CBX1	chromobox 1	6.35E-03	1.709	Nucleus	transcription regulator
CCL5	C-C motif chemokine ligand 5	1.80E-02	30.463	Extracellular Space	cytokine
CCND1	cyclin D1	1.26E-03	45.887	Nucleus	transcription regulator
CCND2	cyclin D2	2.81E-04	49.453	Nucleus	other
CCNG1	cyclin G1	2.81E-04	1.966	Nucleus	other
CCNG2	cyclin G2	2.81E-04	-6.812	Nucleus	other
CCNI	cyclin I	2.74E-02	-1.67	Other	other
CCT3	chaperonin containing TCP1 subunit 3	2.81E-04	3.359	Cytoplasm	other
CCT6A	chaperonin containing TCP1 subunit 6A	2.81E-04	2.486	Cytoplasm	other
CD1D	CD1d molecule	2.81E-04	3.55	Plasma Membrane	other
CD200R1L	CD200 receptor 1 like	1.03E-03	116.243	Plasma Membrane	other
CD38	CD38 molecule	2.81E-04	746.501	Plasma Membrane	enzyme
CD40	CD40 molecule	2.81E-04	10.014	Plasma Membrane	transmembrane receptor
CD69	CD69 molecule	2.81E-04	5.614	Plasma Membrane	transmembrane receptor
CD93	CD93 molecule	2.81E-04	8.55	Plasma Membrane	other
CDC123	cell division cycle 123	2.83E-02	1.994	Cytoplasm	other
CDK17	cyclin dependent kinase 17	2.81E-04	-2.258	Cytoplasm	kinase
CDKN1B	cyclin dependent kinase inhibitor 1B	2.81E-04	-4.006	Nucleus	kinase
CDKN2AIP	CDKN2A interacting protein	2.81E-04	-3.711	Nucleus	transcription regulator
CFL1	cofilin 1	3.37E-02	1.571	Nucleus	other
CHCHD1	coiled-coil-helix-coiled-coil-helix domain containing 1	2.81E-04	2.523	Nucleus	other
Chmp4b	charged multivesicular body protein 4B	2.81E-04	2.743	Cytoplasm	other
CHORDC1	cysteine and histidine rich domain containing 1	2.81E-04	2.49	Other	other
CHST14	carbohydrate sulfotransferase 14	2.27E-02	4.081	Cytoplasm	enzyme
CKAP4	cytoskeleton associated protein 4	2.81E-04	-3.953	Cytoplasm	other
CLEC5A	C-type lectin domain containing 5A	2.81E-04	6.783	Plasma Membrane	other
CLINT1	clathrin interactor 1	2.81E-04	-1.895	Cytoplasm	other
CLPP	caseinolytic mitochondrial matrix peptidase proteolytic subunit	2.81E-04	2.809	Cytoplasm	peptidase
CMTM3	CKLF like MARVEL transmembrane domain containing 3	2.81E-04	1.99	Extracellular Space	cytokine
CNDP2	carnosine dipeptidase 2	2.81E-04	13.861	Cytoplasm	peptidase
CNEP1R1	CTD nuclear envelope phosphatase 1 regulatory subunit 1	7.83E-03	1.697	Nucleus	other
CNIH4	comichon family AMPA receptor auxiliary protein 4	1.26E-03	2.546	Plasma Membrane	other
CNN3	calponin 3	2.81E-04	57.361	Cytoplasm	other
COA4	cytochrome c oxidase assembly factor 4 homolog	2.81E-04	2.18	Cytoplasm	other
COMMD3	COMM domain containing 3	2.81E-04	2.904	Extracellular Space	other
Cox7a2	cytochrome c oxidase subunit 7A2	2.81E-04	2.764	Cytoplasm	enzyme
COX7B	cytochrome c oxidase subunit 7B	3.21E-03	1.982	Cytoplasm	enzyme
CREB3L1	cAMP responsive element binding protein 3 like 1	2.81E-04	9.461	Nucleus	transcription regulator
CRYZL1	crystallin zeta like 1	2.81E-04	2.317	Cytoplasm	enzyme
CSRP1	cysteine and glycine rich protein 1	2.81E-04	6.96	Nucleus	other
CSRP2	cysteine and glycine rich protein 2	2.81E-04	-17.939	Nucleus	other
CSTF2T	cleavage stimulation factor subunit 2 tau variant	1.68E-02	1.575	Nucleus	other
CTSC	cathepsin C	2.81E-04	9.305	Cytoplasm	peptidase
Ctso	cathepsin O	1.03E-03	1.824	Cytoplasm	peptidase
CXCL10	C-X-C motif chemokine ligand 10	2.81E-04	93.183	Extracellular Space	cytokine
CXCL16	C-X-C motif chemokine ligand 16	2.81E-04	33.614	Extracellular Space	cytokine
CYCS	cytochrome c, somatic	2.81E-04	6.883	Cytoplasm	transporter
DALRD3	DALR anticodon binding domain containing 3	1.49E-03	-2.056	Other	other
DCAF12	DDB1 and CUL4 associated factor 12	3.41E-03	-1.661	Cytoplasm	other
DDHD1	DDHD domain containing 1	2.81E-04	6.552	Extracellular Space	enzyme
DDIT4	DNA damage inducible transcript 4	2.81E-04	-3.213	Cytoplasm	other

DEGS1	delta 4-desaturase, sphingolipid 1	2.81E-04	-3.456	Plasma Membrane	enzyme
DGKD	diacylglycerol kinase delta	2.81E-04	-3.748	Cytoplasm	kinase
DHFR	dihydrofolate reductase	2.81E-04	38.881	Nucleus	enzyme
DRAM2	DNA damage regulated autophagy modulator 2	2.81E-04	3.688	Cytoplasm	other
DTX3L	deltex E3 ubiquitin ligase 3L	3.41E-03	4.053	Cytoplasm	enzyme
DUSP6	dual specificity phosphatase 6	2.81E-04	-2.081	Cytoplasm	phosphatase
DYM	dymeclin	1.03E-03	-1.814	Cytoplasm	other
DYNLL2	dynein light chain LC8-type 2	2.81E-04	2.373	Cytoplasm	other
ECE1	endothelin converting enzyme 1	2.81E-04	2.256	Plasma Membrane	peptidase
EEF2K	eukaryotic elongation factor 2 kinase	2.81E-04	-17.988	Cytoplasm	kinase
EIF4EBP2	eukaryotic translation initiation factor 4E binding protein 2	7.88E-04	-2.793	Cytoplasm	translation regulator
ELL2	elongation factor for RNA polymerase II 2	2.81E-04	5.934	Nucleus	transcription regulator
ELMO2	engulfment and cell motility 2	2.17E-02	-1.539	Cytoplasm	other
ELOC	elongin C	2.81E-04	3.215	Nucleus	transcription regulator
EMB	embigin	2.81E-04	-1.989	Plasma Membrane	other
EPS8	epidermal growth factor receptor pathway substrate 8	2.81E-04	2.042	Plasma Membrane	peptidase
FAM234A	family with sequence similarity 234 member A	1.26E-02	-2.418	Plasma Membrane	other
FAM3A	family with sequence similarity 3 member A	4.43E-02	1.528	Extracellular Space	other
FAM98B	family with sequence similarity 98 member B	1.27E-02	1.733	Nucleus	enzyme
FAR1	fatty acyl-CoA reductase 1	2.81E-04	-2.352	Cytoplasm	enzyme
FCGR3A	Fc fragment of IgG receptor IIIa	5.00E-03	13.576	Plasma Membrane	transmembrane receptor
FEZ2	fasciculation and elongation protein zeta 2	2.81E-04	4.374	Cytoplasm	other
FOSL2	FOS like 2, AP-1 transcription factor subunit	2.81E-04	-5.792	Nucleus	transcription regulator
FOXP4	forkhead box P4	2.81E-04	2.961	Nucleus	transcription regulator
FRAT2	FRAT regulator of WNT signaling pathway 2	1.24E-02	-73.415	Cytoplasm	other
FURIN	furin, paired basic amino acid cleaving enzyme	2.81E-04	-1.892	Cytoplasm	peptidase
GAB3	GRB2 associated binding protein 3	2.81E-04	2.615	Other	other
GABARAPL1	GABA type A receptor associated protein like 1	2.65E-02	1.535	Cytoplasm	other
Gabpb1	GA binding protein transcription factor subunit beta 1	2.81E-04	2.205	Nucleus	transcription regulator
GADD45B	growth arrest and DNA damage inducible beta	2.81E-04	3.811	Cytoplasm	other
GALNT1	polypeptide N-acetylgalactosaminyltransferase 1	2.59E-03	-1.685	Cytoplasm	enzyme
GAS7	growth arrest specific 7	2.81E-04	-5.318	Cytoplasm	transcription regulator
GBA	glucosylceramidase beta	2.81E-04	4.014	Cytoplasm	enzyme
GDE1	glycerophosphodiester phosphodiesterase 1	2.81E-04	2.27	Plasma Membrane	enzyme
GDF3	growth differentiation factor 3	2.81E-04	10.469	Extracellular Space	growth factor
GFM1	G elongation factor mitochondrial 1	1.60E-02	1.756	Cytoplasm	translation regulator
GINS1	GINS complex subunit 1	3.58E-02	8.676	Nucleus	other
GINS4	GINS complex subunit 4	3.45E-02	1.545	Nucleus	other
GIT2	GIT ArfGAP 2	7.88E-04	-1.776	Nucleus	other
GLIPR2	GLI pathogenesis related 2	2.81E-04	-5.091	Cytoplasm	other
GNS	glucosamine (N-acetyl)-6-sulfatase	2.81E-04	7.24	Cytoplasm	enzyme
GOLT1B	golgi transport 1B	1.71E-03	1.83	Cytoplasm	other
GPR132	G protein-coupled receptor 132	2.81E-04	-3.91	Plasma Membrane	G-protein coupled receptor
GPR31	G protein-coupled receptor 31	2.81E-04	211.571	Plasma Membrane	G-protein coupled receptor
GRB2	growth factor receptor bound protein 2	8.74E-03	2.452	Cytoplasm	other
GRK3	G protein-coupled receptor kinase 3	2.81E-04	-2.73	Cytoplasm	kinase
GSKIP	GSK3B interacting protein	2.85E-02	1.554	Nucleus	other
GTF2H1	general transcription factor IIH subunit 1	2.81E-04	1.978	Nucleus	transcription regulator
GTPBP8	GTP binding protein 8 (putative)	1.26E-03	8.288	Cytoplasm	other
HDHD2	haloacid dehalogenase like hydrolase domain containing 2	6.15E-03	1.952	Cytoplasm	other
HEBP1	heme binding protein 1	2.81E-04	114.325	Cytoplasm	other
HERC4	HECT and RLD domain containing E3 ubiquitin protein ligase 4	2.81E-04	-4.211	Cytoplasm	enzyme
HERPUD1	homocysteine inducible ER protein with ubiquitin like domain 1	2.81E-04	-2.013	Cytoplasm	other
HERPUD2	HERPUD family member 2	3.00E-03	-1.701	Other	other
HLA-DOA	major histocompatibility complex, class II, DO alpha	2.80E-02	-1.703	Plasma Membrane	transmembrane receptor
HMG1	high mobility group AT-hook 1	2.81E-04	6.135	Nucleus	transcription regulator
HSD11B1	hydroxysteroid 11-beta dehydrogenase 1	2.81E-04	-11.819	Cytoplasm	enzyme
HSD17B11	hydroxysteroid 17-beta dehydrogenase 11	2.81E-04	-2.902	Cytoplasm	enzyme
HSDL2	hydroxysteroid dehydrogenase like 2	2.81E-04	2.659	Cytoplasm	transporter

HSP90B1	heat shock protein 90 beta family member 1	2.81E-04	2.924	Cytoplasm	other
HSPA1A	heat shock protein family A (Hsp70) member 1A	2.81E-04	3.143	Cytoplasm	enzyme
HTR7	5-hydroxytryptamine receptor 7	2.81E-04	440.195	Plasma Membrane	G-protein coupled receptor
IFI16	interferon gamma inducible protein 16	2.81E-04	34.8	Nucleus	transcription regulator
IL10	interleukin 10	2.81E-04	93.507	Extracellular Space	cytokine
IL15	interleukin 15	5.40E-04	2.048	Extracellular Space	cytokine
IL18BP	interleukin 18 binding protein	2.81E-04	384.01	Extracellular Space	other
IL1A	interleukin 1 alpha	2.81E-04	17.006	Extracellular Space	cytokine
IL3RA	interleukin 3 receptor subunit alpha	2.81E-04	3.006	Plasma Membrane	transmembrane receptor
IMPDH1	inosine monophosphate dehydrogenase 1	2.81E-04	-4.611	Cytoplasm	enzyme
ING1	inhibitor of growth family member 1	2.81E-04	-2.546	Nucleus	transcription regulator
IRAK2	interleukin 1 receptor associated kinase 2	2.35E-02	1.546	Plasma Membrane	kinase
ISG20	interferon stimulated exonuclease gene 20	2.81E-04	13.919	Nucleus	enzyme
IST1	IST1 factor associated with ESCRT-III	2.81E-04	2.355	Cytoplasm	other
ITGA9	integrin subunit alpha 9	4.60E-03	477.382	Plasma Membrane	other
ITGAX	integrin subunit alpha X	2.81E-04	2.085	Plasma Membrane	transmembrane receptor
KCTD20	potassium channel tetramerization domain containing 20	2.81E-04	-2.926	Cytoplasm	other
KCTD6	potassium channel tetramerization domain containing 6	2.81E-04	2.083	Plasma Membrane	ion channel
KDM3A	lysine demethylase 3A	5.76E-03	-1.674	Nucleus	transcription regulator
KEAP1	kelch like ECH associated protein 1	2.81E-04	3.375	Cytoplasm	transcription regulator
KIAA0040	KIAA0040	2.81E-04	-6.602	Other	other
KIF21B	kinesin family member 21B	2.81E-04	-19.293	Cytoplasm	other
KLF13	Kruppel like factor 13	2.81E-04	-3.837	Nucleus	transcription regulator
Klf7	Kruppel like factor 7	2.81E-04	-5.245	Nucleus	transcription regulator
KLHL5	kelch like family member 5	2.81E-04	-1.88	Extracellular Space	other
KPNA3	karyopherin subunit alpha 3	1.93E-03	3.031	Nucleus	transporter
KRAS	KRAS proto-oncogene, GTPase	1.39E-02	1.781	Cytoplasm	enzyme
KSR1	kinase suppressor of ras 1	2.81E-04	-21.661	Cytoplasm	kinase
L1CAM	L1 cell adhesion molecule	2.81E-04	-64.535	Plasma Membrane	other
LACC1	laccase domain containing 1	2.81E-04	7.89	Cytoplasm	other
LAMTOR3	late endosomal/lysosomal adaptor, MAPK and MTOR activator 3	3.79E-02	3.119	Cytoplasm	other
LAMTOR5	late endosomal/lysosomal adaptor, MAPK and MTOR activator 5	2.81E-04	2.124	Cytoplasm	other
LARP1	La ribonucleoprotein domain family member 1	2.81E-04	3.722	Cytoplasm	translation regulator
LDB1	LIM domain binding 1	2.81E-04	-2.013	Nucleus	transcription regulator
LGALS3BP	galectin 3 binding protein	2.81E-04	13.473	Plasma Membrane	transmembrane receptor
LHFPL2	LHFPL tetraspan subfamily member 2	2.81E-04	304.859	Other	enzyme
LIN7C	lin-7 homolog C, crumbs cell polarity complex component	1.86E-02	-1.578	Cytoplasm	other
LIPA	lipase A, lysosomal acid type	2.81E-04	3.463	Cytoplasm	enzyme
LITAF	lipopolysaccharide induced TNF factor	1.26E-03	4.986	Nucleus	transcription regulator
LMO4	LIM domain only 4	1.50E-02	-2.437	Nucleus	transcription regulator
LTB4R	leukotriene B4 receptor	2.81E-04	-4.695	Plasma Membrane	G-protein coupled receptor
LYPLA2	lysophospholipase 2	2.81E-04	-2.055	Cytoplasm	enzyme
MAF	MAF bZIP transcription factor	2.81E-04	24.813	Nucleus	transcription regulator
MAFB	MAF bZIP transcription factor B	2.81E-04	9.815	Nucleus	transcription regulator
MAP1LC3A	microtubule associated protein 1 light chain 3 alpha	2.81E-04	-2.178	Cytoplasm	other
MAPK14	mitogen-activated protein kinase 14	2.81E-04	-2.938	Cytoplasm	kinase
MAPK7	mitogen-activated protein kinase 7	1.15E-02	1.593	Cytoplasm	kinase
MARCKSL1	MARCKS like 1	2.81E-04	6.118	Cytoplasm	other
MBD2	methyl-CpG binding domain protein 2	2.37E-03	1.691	Nucleus	transcription regulator
MCFD2	multiple coagulation factor deficiency 2	2.81E-04	4.278	Cytoplasm	other
MEGF9	multiple EGF like domains 9	2.81E-04	-8	Extracellular Space	other
MFSD14B	major facilitator superfamily domain containing 14B	2.81E-04	-2.014	Other	other
MID1IP1	MID1 interacting protein 1	2.81E-04	-2.932	Cytoplasm	other
MITF	melanocyte inducing transcription factor	2.81E-04	5.263	Nucleus	transcription regulator
MLLT6	MLLT6, PHD finger containing	2.81E-04	3.121	Nucleus	transcription regulator
MMP9	matrix metalloproteinase 9	2.81E-04	-779.821	Extracellular Space	peptidase
MOSPD1	motile sperm domain containing 1	1.49E-03	2.01	Other	other
MOSPD2	motile sperm domain containing 2	2.81E-04	2.011	Plasma Membrane	other
MRPL1	mitochondrial ribosomal protein L1	2.81E-04	2.791	Cytoplasm	other

MRPL16	mitochondrial ribosomal protein L16	2.81E-04	2.144	Cytoplasm	other
Mrp17	mitochondrial ribosomal protein L17	2.81E-04	2.377	Cytoplasm	other
MRPS2	mitochondrial ribosomal protein S2	2.81E-04	2.532	Cytoplasm	other
MS4A7	membrane spanning 4-domains A7	2.81E-04	44.262	Other	other
MSL2	MSL complex subunit 2	3.83E-03	-1.735	Nucleus	other
MTFR1	mitochondrial fission regulator 1	2.81E-04	-2.852	Cytoplasm	other
MTHFR	methylenetetrahydrofolate reductase	2.81E-04	6.409	Cytoplasm	enzyme
MTHFS	methenyltetrahydrofolate synthetase	7.46E-03	2.488	Cytoplasm	enzyme
MTX2	metaxin 2	2.81E-04	2.774	Cytoplasm	transporter
MVB12B	multivesicular body subunit 12B	2.81E-04	-14.52	Cytoplasm	other
MX1	MX dynamin like GTPase 1	2.81E-04	3.63	Cytoplasm	enzyme
MYD88	MYD88 innate immune signal transduction adaptor	2.81E-04	2.519	Plasma Membrane	other
MYLIP	myosin regulatory light chain interacting protein	7.65E-03	-1.663	Cytoplasm	enzyme
N4BP1	NEDD4 binding protein 1	2.81E-04	2.53	Cytoplasm	other
NAA15	N(alpha)-acetyltransferase 15, NatA auxiliary subunit	2.10E-02	1.876	Nucleus	transcription regulator
NABP1	nucleic acid binding protein 1	9.10E-03	-1.73	Nucleus	other
NACC1	nucleus accumbens associated 1	1.49E-03	1.896	Nucleus	transcription regulator
NAMPT	nicotinamide phosphoribosyltransferase	2.81E-04	13.278	Extracellular Space	cytokine
NAV1	neuron navigator 1	2.81E-04	-9.19	Other	enzyme
NCOA7	nuclear receptor coactivator 7	9.10E-03	2.275	Nucleus	transcription regulator
NDUFS4	NADH:ubiquinone oxidoreductase subunit S4	2.81E-04	2.89	Cytoplasm	enzyme
NF2	neurofibromin 2	3.79E-02	-1.52	Plasma Membrane	other
Nlr5	NLR family CARD domain containing 5	2.81E-04	6.307	Cytoplasm	transcription regulator
NMD3	NMD3 ribosome export adaptor	2.81E-04	2.317	Nucleus	other
NMT1	N-myristoyltransferase 1	2.81E-04	2.239	Cytoplasm	enzyme
NR4A1	nuclear receptor subfamily 4 group A member 1	2.81E-04	-23.951	Nucleus	ligand-dependent nuclear receptor
NRAS	NRAS proto-oncogene, GTPase	3.00E-03	1.983	Plasma Membrane	enzyme
NRP2	neuropilin 2	2.81E-04	9.829	Plasma Membrane	kinase
NUBP2	nucleotide binding protein 2	2.81E-04	1.927	Nucleus	other
NUDT19	nudix hydrolase 19	2.81E-04	2.788	Cytoplasm	enzyme
NUDT4	nudix hydrolase 4	2.81E-04	-4.09	Cytoplasm	phosphatase
NUPR1	nuclear protein 1, transcriptional regulator	2.81E-04	1.875	Nucleus	transcription regulator
NUS1	NUS1 dehydrodichyl diphosphate synthase subunit	5.40E-04	1.905	Cytoplasm	enzyme
ODC1	ornithine decarboxylase 1	2.81E-04	4.219	Cytoplasm	enzyme
OSTM1	osteoclastogenesis associated transmembrane protein 1	2.81E-04	1.823	Cytoplasm	other
P2RX1	purinergic receptor P2X 1	2.81E-04	-270.035	Plasma Membrane	ion channel
PA2G4	proliferation-associated 2G4	2.81E-04	2.338	Nucleus	transcription regulator
PAFAH1B2	platelet activating factor acetylhydrolase 1b catalytic subunit 2	5.40E-04	2.656	Cytoplasm	enzyme
PAN3	poly(A) specific ribonuclease subunit PAN3	2.81E-04	-2.894	Cytoplasm	other
PATL1	PAT1 homolog 1, processing body mRNA decay factor	2.81E-04	2.196	Cytoplasm	translation regulator
PDCD5	programmed cell death 5	2.15E-03	1.863	Nucleus	other
PDCD6IP	programmed cell death 6 interacting protein	2.15E-03	1.72	Cytoplasm	other
PDCL3	phosducin like 3	2.81E-04	2.275	Cytoplasm	other
PDE6D	phosphodiesterase 6D	2.81E-04	2.166	Cytoplasm	enzyme
PDE7B	phosphodiesterase 7B	2.81E-04	4.544	Cytoplasm	enzyme
PDIA3	protein disulfide isomerase family A member 3	2.81E-04	3.015	Cytoplasm	peptidase
PDZD11	PDZ domain containing 11	2.81E-04	3.779	Extracellular Space	other
PEA15	proliferation and apoptosis adaptor protein 15	2.81E-04	3.885	Cytoplasm	transporter
PF4	platelet factor 4	2.81E-04	17.328	Extracellular Space	cytokine
PFDN1	prefoldin subunit 1	2.81E-04	2.585	Cytoplasm	transcription regulator
PFDN6	prefoldin subunit 6	2.43E-02	1.552	Cytoplasm	other
PFKFB3	6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 3	2.81E-04	4.649	Cytoplasm	kinase
PFN1	profilin 1	1.71E-03	1.854	Cytoplasm	other
PGLYRP1	peptidoglycan recognition protein 1	2.81E-04	-161.344	Plasma Membrane	transmembrane receptor
PHF14	PHD finger protein 14	2.81E-04	-2.241	Nucleus	other
PHF20L1	PHD finger protein 20 like 1	2.81E-04	-6.329	Other	other
PLA2G15	phospholipase A2 group XV	2.81E-04	6.821	Cytoplasm	enzyme
PLAA	phospholipase A2 activating protein	2.81E-04	2.161	Cytoplasm	other
PLCL2	phospholipase C like 2	1.39E-02	1.572	Cytoplasm	enzyme

PLEKHO2	pleckstrin homology domain containing O2	2.81E-04	2.85	Cytoplasm	other
PLP2	proteolipid protein 2	2.81E-04	-13.492	Cytoplasm	transporter
PLRG1	pleiotropic regulator 1	5.40E-04	1.834	Nucleus	other
PLXND1	plexin D1	2.81E-04	-2.49	Plasma Membrane	transmembrane receptor
PMM1	phosphomannomutase 1	4.40E-03	-6.216	Cytoplasm	enzyme
PNRC1	proline rich nuclear receptor coactivator 1	2.81E-04	-2.969	Nucleus	other
POLR2D	RNA polymerase II subunit D	1.45E-02	1.654	Nucleus	enzyme
PON2	paraoxonase 2	2.81E-04	-4.76	Plasma Membrane	enzyme
PPARG	peroxisome proliferator activated receptor gamma	2.81E-04	3.121	Nucleus	ligand-dependent nuclear receptor
PPHLN1	periplin 1	7.88E-04	1.795	Nucleus	other
PPIF	peptidylprolyl isomerase F	1.01E-02	1.676	Cytoplasm	enzyme
PPP1R9B	protein phosphatase 1 regulatory subunit 9B	9.64E-03	1.634	Cytoplasm	enzyme
PPP3CA	protein phosphatase 3 catalytic subunit alpha	2.81E-04	-3.254	Cytoplasm	phosphatase
PPP4R2	protein phosphatase 4 regulatory subunit 2	2.24E-02	1.536	Cytoplasm	other
PPT1	palmitoyl-protein thioesterase 1	2.80E-03	5.249	Cytoplasm	enzyme
PPTC7	PTC7 protein phosphatase homolog	2.81E-04	-1.904	Cytoplasm	phosphatase
PRDX4	peroxiredoxin 4	5.57E-03	1.795	Cytoplasm	enzyme
PRELID3B	PRELI domain containing 3B	1.39E-02	2.313	Cytoplasm	other
PRKCB	protein kinase C beta	5.40E-04	-1.992	Cytoplasm	kinase
PROCR	protein C receptor	2.81E-04	296.729	Plasma Membrane	other
PRRC2B	proline rich coiled-coil 2B	1.45E-02	-2.263	Other	other
PSMA4	proteasome subunit alpha 4	2.81E-04	3.856	Cytoplasm	peptidase
PSMD11	proteasome 26S subunit, non-ATPase 11	2.81E-04	4.17	Cytoplasm	other
PSMD7	proteasome 26S subunit, non-ATPase 7	2.81E-04	4.554	Cytoplasm	other
PSMF1	proteasome inhibitor subunit 1	3.94E-02	1.56	Cytoplasm	other
PSMG4	proteasome assembly chaperone 4	2.81E-04	2.118	Other	transcription regulator
PTAFR	platelet activating factor receptor	2.81E-04	9.441	Plasma Membrane	G-protein coupled receptor
PTGS2	prostaglandin-endoperoxide synthase 2	2.81E-04	2.141	Cytoplasm	enzyme
PTPN2	protein tyrosine phosphatase non-receptor type 2	2.81E-04	2.338	Cytoplasm	phosphatase
QKI	QKI, KH domain containing RNA binding	1.17E-02	1.599	Nucleus	other
RAB11FIP4	RAB11 family interacting protein 4	2.81E-04	-72.958	Cytoplasm	other
RAB32	RAB32, member RAS oncogene family	2.81E-04	4.167	Cytoplasm	enzyme
RAB31L1	RAB3A interacting protein like 1	2.81E-04	173.645	Cytoplasm	other
RAB9A	RAB9A, member RAS oncogene family	2.81E-04	2.216	Cytoplasm	enzyme
RAP2C	RAP2C, member of RAS oncogene family	2.81E-04	2.944	Cytoplasm	enzyme
RASGEF1B	RasGEF domain family member 1B	2.81E-04	15.889	Other	other
RERE	arginine-glutamic acid dipeptide repeats	2.81E-04	-2.055	Nucleus	transcription regulator
RFX1	regulatory factor X1	2.81E-04	-2.892	Nucleus	transcription regulator
RFX7	regulatory factor X7	2.81E-04	-4.29	Other	other
Ranbp2	RANBP2 like and GRIP domain containing 5	2.81E-04	6.338	Nucleus	enzyme
RGS18	regulator of G protein signaling 18	2.81E-04	-64.714	Cytoplasm	enzyme
RGS2	regulator of G protein signaling 2	2.81E-04	-5.955	Nucleus	enzyme
RGS3	regulator of G protein signaling 3	2.81E-04	-2.36	Nucleus	enzyme
RHEB	Ras homolog, mTORC1 binding	2.81E-04	1.919	Cytoplasm	enzyme
RIC1	RIC1 homolog, RAB6A GEF complex partner 1	2.81E-04	7.336	Cytoplasm	other
RNF139	ring finger protein 139	5.40E-04	1.888	Cytoplasm	enzyme
RNF141	ring finger protein 141	2.81E-04	2.689	Other	enzyme
RNF167	ring finger protein 167	2.81E-04	-5.506	Cytoplasm	enzyme
RNF4	ring finger protein 4	4.21E-03	1.653	Nucleus	transcription regulator
RPL37	ribosomal protein L37	1.03E-03	-1.781	Cytoplasm	other
RPL4	ribosomal protein L4	3.34E-02	-1.628	Cytoplasm	enzyme
RUNX3	RUNX family transcription factor 3	3.44E-02	1.555	Nucleus	transcription regulator
RWDD1	RWD domain containing 1	1.42E-02	1.604	Cytoplasm	other
S100A1	S100 calcium binding protein A1	2.80E-03	-2.035	Cytoplasm	other
S1PR2	sphingosine-1-phosphate receptor 2	1.30E-02	5.901	Plasma Membrane	G-protein coupled receptor
SAMSN1	SAM domain, SH3 domain and nuclear localization signals 1	2.81E-04	-2.38	Nucleus	other
SAP30L	SAP30 like	1.71E-03	-1.966	Nucleus	transcription regulator
SATB1	SATB homeobox 1	2.81E-04	-21.112	Nucleus	transcription regulator
SC5D	sterol-C5-desaturase	2.81E-04	-3.084	Cytoplasm	enzyme

SERPINB1	serpin family B member 1	2.81E-04	-18.316	Cytoplasm	other
SESN1	sestrin 1	3.18E-02	-1.55	Nucleus	other
SESN2	sestrin 2	4.02E-03	2.944	Cytoplasm	enzyme
SESTD1	SEC14 and spectrin domain containing 1	1.03E-02	1.688	Extracellular Space	other
SETD7	SET domain containing 7, histone lysine methyltransferase	2.81E-04	-2.715	Nucleus	enzyme
SF3B4	splicing factor 3b subunit 4	4.40E-03	1.778	Nucleus	other
SGMS2	sphingomyelin synthase 2	2.81E-04	-13.842	Plasma Membrane	enzyme
SGTA	small glutamine rich tetratricopeptide repeat containing alpha	2.81E-04	2.104	Cytoplasm	other
SH2D3C	SH2 domain containing 3C	2.81E-04	-23.637	Cytoplasm	other
SH3BP5L	SH3 binding domain protein 5 like	5.40E-04	-2.32	Other	other
SH3GL1	SH3 domain containing GRB2 like 1, endophilin A2	1.71E-03	2.107	Cytoplasm	other
SKAP2	src kinase associated phosphoprotein 2	2.81E-04	3.04	Cytoplasm	other
SLA	Src like adaptor	2.81E-04	-2.282	Plasma Membrane	other
SLAMF7	SLAM family member 7	2.81E-04	138.621	Plasma Membrane	other
SLAMF8	SLAM family member 8	2.81E-04	14.703	Extracellular Space	other
SLC12A7	solute carrier family 12 member 7	2.81E-04	13.132	Plasma Membrane	transporter
SLC25A28	solute carrier family 25 member 28	2.81E-04	-2.196	Cytoplasm	transporter
SLC2A1	solute carrier family 2 member 1	2.81E-04	2.272	Plasma Membrane	transporter
SLC31A2	solute carrier family 31 member 2	7.88E-04	4.986	Plasma Membrane	transporter
SLC38A7	solute carrier family 38 member 7	2.81E-04	4.993	Plasma Membrane	transporter
SLC66A2	solute carrier family 66 member 2	2.81E-04	-3.106	Other	other
SLC7A8	solute carrier family 7 member 8	2.81E-04	7.852	Plasma Membrane	transporter
SMAD1	SMAD family member 1	5.40E-04	1.944	Nucleus	transcription regulator
SNX12	sorting nexin 12	2.37E-03	1.876	Cytoplasm	transporter
SNX13	sorting nexin 13	4.40E-03	1.691	Cytoplasm	transporter
SNX24	sorting nexin 24	3.21E-03	629.909	Other	transporter
SNX3	sorting nexin 3	2.81E-04	2.852	Cytoplasm	transporter
SOAT1	sterol O-acyltransferase 1	2.81E-04	3.583	Cytoplasm	enzyme
SP1	Sp1 transcription factor	2.81E-04	-1.869	Nucleus	transcription regulator
SP110	SP110 nuclear body protein	2.81E-04	2.523	Nucleus	transcription regulator
SPATA5L1	spermatogenesis associated 5 like 1	4.02E-03	1.913	Other	other
SPLL3	signal peptide peptidase like 3	1.30E-02	-1.562	Cytoplasm	peptidase
SPRED1	sprouty related EVH1 domain containing 1	2.81E-04	4.636	Plasma Membrane	other
SQSTM1	sequestosome 1	2.81E-04	3.487	Cytoplasm	transcription regulator
SRP19	signal recognition particle 19	7.88E-04	1.884	Cytoplasm	other
SRPRA	SRP receptor subunit alpha	7.88E-04	1.945	Cytoplasm	other
SSBP3	single stranded DNA binding protein 3	2.81E-04	-7.595	Nucleus	transcription regulator
ST3GAL3	ST3 beta-galactoside alpha-2,3-sialyltransferase 3	2.81E-04	-3.608	Cytoplasm	enzyme
STAT5B	signal transducer and activator of transcription 5B	2.81E-04	-2.127	Nucleus	transcription regulator
STK39	serine/threonine kinase 39	2.81E-04	71.062	Nucleus	kinase
STX2	syntaxin 2	2.81E-04	2.423	Cytoplasm	transporter
STX7	syntaxin 7	2.81E-04	2.242	Plasma Membrane	transporter
SUSD3	sushi domain containing 3	1.39E-02	-17.018	Plasma Membrane	other
SUSD6	sushi domain containing 6	2.81E-04	2.844	Other	other
SYAP1	synapse associated protein 1	1.49E-03	1.791	Nucleus	other
SYNE1	spectrin repeat containing nuclear envelope protein 1	2.81E-04	-180.643	Nucleus	other
SZRD1	SUZ RNA binding domain containing 1	1.26E-03	1.72	Other	other
TACSTD2	tumor associated calcium signal transducer 2	2.81E-04	-22.769	Plasma Membrane	other
TARS1	threonyl-tRNA synthetase 1	2.81E-04	1.912	Nucleus	enzyme
TBC1D10A	TBC1 domain family member 10A	2.81E-04	2.123	Plasma Membrane	other
TBC1D13	TBC1 domain family member 13	2.81E-04	2.072	Cytoplasm	other
TCEAL9	transcription elongation factor A like 9	2.81E-04	6.709	Other	other
TCF7L2	transcription factor 7 like 2	2.81E-04	9.145	Nucleus	transcription regulator
TDRD7	tudor domain containing 7	2.81E-04	1.909	Cytoplasm	other
TEFM	transcription elongation factor, mitochondrial	2.81E-04	4.011	Cytoplasm	transcription regulator
TFEC	transcription factor EC	2.81E-04	24.353	Nucleus	transcription regulator
THAP3	THAP domain containing 3	1.15E-02	-1.721	Nucleus	transcription regulator
TIMM23	translocase of inner mitochondrial membrane 23	2.24E-02	2.27	Cytoplasm	transporter
TIMP2	TIMP metalloproteinase inhibitor 2	9.81E-03	-1.693	Extracellular Space	other

TLR1	toll like receptor 1	9.10E-03	19.16	Plasma Membrane	transmembrane receptor
TLR4	toll like receptor 4	2.81E-04	14.825	Plasma Membrane	transmembrane receptor
TLR9	toll like receptor 9	2.81E-04	9.734	Plasma Membrane	transmembrane receptor
TM6SF1	transmembrane 6 superfamily member 1	2.81E-04	-2.278	Plasma Membrane	other
TMEM154	transmembrane protein 154	2.81E-04	-46.948	Other	other
TMEM165	transmembrane protein 165	3.47E-02	1.505	Plasma Membrane	other
TMEM268	transmembrane protein 268	2.81E-04	2.977	Cytoplasm	other
TMEM33	transmembrane protein 33	3.21E-03	2.01	Cytoplasm	other
TMEM43	transmembrane protein 43	2.81E-04	-4.317	Nucleus	other
TMEM51	transmembrane protein 51	5.40E-04	1.825	Other	other
TMEM86A	transmembrane protein 86A	2.81E-04	15.541	Other	other
TMX1	thioredoxin related transmembrane protein 1	2.81E-04	3.099	Cytoplasm	enzyme
Tnfrsf13b	TNF receptor superfamily member 13B	2.81E-04	-2.092	Plasma Membrane	transmembrane receptor
TNPO1	transportin 1	7.83E-03	1.698	Nucleus	transporter
TOR1AIP1	torsin 1A interacting protein 1	1.93E-03	1.979	Nucleus	other
TOR1AIP2	torsin 1A interacting protein 2	2.81E-04	4.494	Cytoplasm	other
TOR3A	torsin family 3 member A	2.81E-04	7.923	Cytoplasm	enzyme
TP53INP2	tumor protein p53 inducible nuclear protein 2	2.81E-04	4.293	Nucleus	other
TPRG1L	tumor protein p63 regulated 1 like	2.81E-04	-3.18	Cytoplasm	other
TRAF3IP3	TRAF3 interacting protein 3	2.81E-04	-2.973	Other	other
TRAFD1	TRAF-type zinc finger domain containing 1	4.40E-03	4.598	Other	other
TRIM14	tripartite motif containing 14	7.88E-04	3.382	Cytoplasm	other
Tsc22d3	TSC22 domain family member 3	2.81E-04	-4.064	Nucleus	transcription regulator
TSPAN14	tetraspanin 14	2.81E-04	-2.157	Plasma Membrane	other
TTYH3	teyety family member 3	3.00E-03	1.714	Plasma Membrane	ion channel
TWF1	twinstin actin binding protein 1	3.21E-03	2.565	Cytoplasm	kinase
TXNRD1	thioredoxin reductase 1	2.81E-04	4.095	Cytoplasm	enzyme
UBAP2L	ubiquitin associated protein 2 like	2.29E-02	1.703	Nucleus	other
UBFD1	ubiquitin family domain containing 1	2.30E-02	2.373	Other	other
UGP2	UDP-glucose pyrophosphorylase 2	1.05E-02	1.592	Cytoplasm	enzyme
ULK3	unc-51 like kinase 3	4.79E-02	-1.497	Cytoplasm	kinase
UNC119B	unc-119 lipid binding chaperone B	2.81E-04	-2.523	Cytoplasm	other
UNC93B1	unc-93 homolog B1, TLR signaling regulator	1.03E-02	1.774	Cytoplasm	other
USB1	U6 snRNA biogenesis phosphodiesterase 1	2.81E-04	5.039	Nucleus	enzyme
USP25	ubiquitin specific peptidase 25	2.37E-03	1.762	Cytoplasm	peptidase
VAV2	vav guanine nucleotide exchange factor 2	2.81E-04	2.495	Cytoplasm	transcription regulator
VMP1	vacuole membrane protein 1	2.81E-04	5.788	Plasma Membrane	other
VTI1B	vesicle transport through interaction with t-SNAREs 1B	1.93E-03	2.12	Plasma Membrane	transporter
WDR62	WD repeat domain 62	1.60E-02	5.242	Nucleus	other
XAF1	XIAP associated factor 1	2.81E-04	7.527	Nucleus	other
XPNPEP1	X-prolyl aminopeptidase 1	2.10E-02	1.611	Cytoplasm	peptidase
YIF1B	Yip1 interacting factor homolog B, membrane trafficking protein	2.81E-04	2.924	Cytoplasm	other
YKT6	YKT6 v-SNARE homolog	1.67E-02	1.542	Cytoplasm	enzyme
YWHAG	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein gamma	2.81E-04	2.466	Cytoplasm	other
ZCCHC24	zinc finger CCHC-type containing 24	1.71E-03	-1.803	Other	other
ZDHHC13	zinc finger DHHC-type containing 13	2.23E-02	1.563	Nucleus	transcription regulator
ZNF131	zinc finger protein 131	5.00E-03	1.753	Nucleus	transcription regulator
ZNF703	zinc finger protein 703	2.81E-04	1.92	Nucleus	other
ZNF705A	zinc finger protein 705A	4.98E-02	2.154	Nucleus	transcription regulator