

Supplementary Table 1

ID	VDD_Class	Symbol	Entrez Gene Name	Location	Type(s)
AARS	1	AARS	alanyl-tRNA synthetase	Cytoplasm	enzyme
ACAA2	1	ACAA2	acetyl-CoA acyltransferase 2	Cytoplasm	enzyme
ACADM	1	ACADM	acyl-CoA dehydrogenase, C-4 to C-12 straight chain	Cytoplasm	enzyme
ACAT1	-1	ACAT1	acetyl-CoA acetyltransferase 1	Cytoplasm	enzyme
ACAT2	1	ACAT2	acetyl-CoA acetyltransferase 2	Cytoplasm	enzyme
ACIN1	1	ACIN1	apoptotic chromatin condensation inducer 1	Nucleus	enzyme
ACSF3	-1	ACSF3	acyl-CoA synthetase family member 3	Cytoplasm	enzyme
ACTB	1	ACTB	actin, beta	Cytoplasm	other
ACTG1	1	ACTG1	actin, gamma 1	Cytoplasm	other
ACTN1	1	ACTN1	actinin, alpha 1	Cytoplasm	other
ADA1	1	ADA1	adenosine deaminase	Cytoplasm	enzyme
AHSG	1	AHSG	alpha 2-HS-glycoprotein	Extracellular Space	other
ERAF	1	AHSP	alpha hemoglobin stabilizing protein	Cytoplasm	other
AK1	-1	AK1	adenylate kinase 1	Cytoplasm	kinase
ALAD	-1	ALAD	aminolevulinic acid dehydratase	Cytoplasm	enzyme
ALB	1	ALB	albumin	Extracellular Space	transporter
ALDH18A1	-1	ALDH18A1	aldehyde dehydrogenase 18 family, member A1	Cytoplasm	kinase
ALDH1L2	-1	ALDH1L2	aldehyde dehydrogenase 1 family, member L2	Cytoplasm	enzyme
ALDH2	1	ALDH2	aldehyde dehydrogenase 2 family (mitochondrial)	Cytoplasm	enzyme
ANK1	1	ANK1	ankyrin 1, erythrocytic	Plasma Membrane	other
ANP32E	1	ANP32E	acidic (leucine-rich) nuclear phosphoprotein 32 family, member E	Nucleus	other
ANXA1	1	ANXA1	annexin A1	Plasma Membrane	other
ANXA2	-1	ANXA2	annexin A2	Plasma Membrane	other
ANXA2P2	1	ANXA2P2	annexin A2 pseudogene 2	Other	other
ANXA5	1	ANXA5	annexin A5	Plasma Membrane	other
APEH	-1	APEH	acylaminoacyl-peptide hydrolase	Cytoplasm	peptidase
APOA1	1	APOA1	apolipoprotein A-I	Extracellular Space	transporter
APOC3	1	APOC3	apolipoprotein C-III	Extracellular Space	transporter
APRT	1	APRT	adenine phosphoribosyltransferase	Cytoplasm	enzyme
ARPC3	1	ARPC3	actin related protein 2/3 complex, subunit 3, 21kDa	Cytoplasm	other
ARSA	1	ARSA	arylsulfatase A	Cytoplasm	enzyme
ASNS	-1	ASNS	asparagine synthetase (glutamine-hydrolyzing)	Cytoplasm	enzyme
ATP2A2	1	ATP2A2	ATPase, Ca++ transporting, cardiac muscle, slow twitch 2	Cytoplasm	transporter
ATP5A1	-1	ATP5A1	ATP synthase, H+ transporting, mitochondrial F1 complex, alpha subunit 1, cardiac muscle	Cytoplasm	transporter
ATP5J	-1	ATP5J	ATP synthase, H+ transporting, mitochondrial Fo complex, subunit F6	Cytoplasm	transporter
ATPIF1	1	ATPIF1	ATPase inhibitory factor 1	Cytoplasm	other
AZGP1	1	AZGP1	alpha-2-glycoprotein 1, zinc-binding	Extracellular Space	transporter
BASP1	1	BASP1	brain abundant, membrane attached signal protein 1	Nucleus	transcription regulator
BAZ1B	1	BAZ1B	bromodomain adjacent to zinc finger domain, 1B	Nucleus	transcription regulator
BCAP31	-1	BCAP31	B-cell receptor-associated protein 31	Cytoplasm	transporter
MUTED	-1	BLOC1S5	biogenesis of lysosomal organelles complex-1, subunit 5, muted	Extracellular Space	other
BLVRB	1	BLVRB	biliverdin reductase B (flavin reductase (NADPH))	Cytoplasm	enzyme
BOLA2	-1	BOLA2/BOLA2B	bolA family member 2	Other	other
BTF3	1	BTF3	basic transcription factor 3	Nucleus	transcription regulator
C11orf54	1	C11orf54	chromosome 11 open reading frame 54	Nucleus	other
C1orf141	1	C1orf141	chromosome 1 open reading frame 141	Other	other
C9orf171	-1	C9orf171	chromosome 9 open reading frame 171	Other	other
CA1	1	CA1	carbonic anhydrase I	Cytoplasm	enzyme
CA2	1	CA2	carbonic anhydrase II	Cytoplasm	enzyme
CALML5	-1	CALML5	calmodulin-like 5	Cytoplasm	other
CAP1	1	CAP1	CAP, adenylate cyclase-associated protein 1 (yeast)	Plasma Membrane	other
CCDC37	1	CCDC37	coiled-coil domain containing 37	Other	other
CCT2	1	CCT2	chaperonin containing TCP1, subunit 2 (beta)	Cytoplasm	kinase
CCT3	1	CCT3	chaperonin containing TCP1, subunit 3 (gamma)	Cytoplasm	other
CCT4	1	CCT4	chaperonin containing TCP1, subunit 4 (delta)	Cytoplasm	other
CCT5	-1	CCT5	chaperonin containing TCP1, subunit 5 (epsilon)	Cytoplasm	other
CCT6A	-1	CCT6A	chaperonin containing TCP1, subunit 6A (zeta 1)	Cytoplasm	other
CCT8	-1	CCT8	chaperonin containing TCP1, subunit 8 (theta)	Cytoplasm	enzyme
CD36	1	CD36	CD36 molecule (thrombospondin receptor)	Plasma Membrane	transmembrane receptor
CD44	1	CD44	CD44 molecule (Indian blood group)	Plasma Membrane	enzyme
CD59	1	CD59	CD59 molecule, complement regulatory protein	Plasma Membrane	other
CD9	1	CD9	CD9 molecule	Plasma Membrane	other
CDK42	1	CDK42	cell division cycle 42	Cytoplasm	enzyme
CDKN2AIP	-1	CDKN2AIP	CDKN2A interacting protein	Nucleus	transcription regulator
CEACAM6	-1	CEACAM6	carcinoembryonic antigen-related cell adhesion molecule 6 (non-specific cross reacting antigen)	Plasma Membrane	other
CFL1	-1	CFL1	cofilin 1 (non-muscle)	Nucleus	other
CKB	-1	CKB	creatine kinase, brain	Cytoplasm	kinase
CLIC1	1	CLIC1	chloride intracellular channel 1	Nucleus	ion channel
CLPP	-1	CLPP	caseolytic mitochondrial matrix peptidase proteolytic subunit	Cytoplasm	peptidase
CLPTM1L	-1	CLPTM1L	CLPTM1-like	Other	other
CNOT1	-1	CNOT1	CCR4-NOT transcription complex, subunit 1	Cytoplasm	other
COL1A2	-1	COL1A2	collagen, type I, alpha 2	Extracellular Space	other
COPA	1	COPA	coatamer protein complex, subunit alpha	Cytoplasm	transporter
COQ9	1	COQ9	coenzyme Q9	Cytoplasm	other
COTL1	1	COTL1	coactosin-like 1 (Dictyostelium)	Cytoplasm	other
COX4I1	-1	COX4I1	cytochrome c oxidase subunit IV isoform 1	Cytoplasm	enzyme
CS	1	CS	citrate synthase	Cytoplasm	enzyme
CSTA	-1	CSTA	cystatin A (stefin A)	Cytoplasm	other
CSTB	1	CSTB	cystatin B (stefin B)	Cytoplasm	peptidase
CUL4B	-1	CUL4B	cullin 4B	Nucleus	other
CUTA	1	CUTA	cutA divalent cation tolerance homolog (E. coli)	Other	other
CYB5B	1	CYB5B	cytochrome b5 type B (outer mitochondrial membrane)	Cytoplasm	enzyme
CYB5R1	1	CYB5R1	cytochrome b5 reductase 1	Cytoplasm	enzyme
CYB5R3	1	CYB5R3	cytochrome b5 reductase 3	Cytoplasm	enzyme
CYCS	-1	CYCS	cytochrome c, somatic	Cytoplasm	transporter
DAD1	1	DAD1	defender against cell death 1	Cytoplasm	enzyme
DAP3	-1	DAP3	death associated protein 3	Cytoplasm	other
DARS	-1	DARS	aspartyl-tRNA synthetase	Cytoplasm	enzyme
DKC1	-1	DKC1	dyskeratosis congenita 1, dyskerin	Nucleus	enzyme
DLAT	-1	DLAT	dihydropyrimidinase	Cytoplasm	enzyme
DLI	-1	DLI	dihydropyrimidinase	Cytoplasm	enzyme
DLST	-1	DLST	dihydropyrimidinase S-succinyltransferase (E2 component of 2-oxo-glutarate complex)	Cytoplasm	enzyme
DNAJB11	1	DNAJB11	DnaJ (Hsp40) homolog, subfamily B, member 11	Cytoplasm	other
DNAJC1	1	DNAJC1	DnaJ (Hsp40) homolog, subfamily C, member 1	Cytoplasm	other
DOCK4	1	DOCK4	dedicator of cytokinesis 4	Plasma Membrane	other
DPEP1	1	DPEP1	dipeptidase 1 (renal)	Cytoplasm	peptidase
DPP7	-1	DPP7	dipeptidyl-peptidase 7	Cytoplasm	peptidase
DSG1	-1	DSG1	desmoglein 1	Plasma Membrane	other
DSP	-1	DSP	desmoplakin	Plasma Membrane	other
DUS3L	1	DUS3L	dihydrouridine synthase 3-like (S. cerevisiae)	Other	other
DYNC1H1	-1	DYNC1H1	dynein, cytoplasmic 1, heavy chain 1	Cytoplasm	peptidase
EEF1A1	-1	EEF1A1	eukaryotic translation elongation factor 1 alpha 1	Cytoplasm	translation regulator
EEF1B2	1	EEF1B2	eukaryotic translation elongation factor 1 beta 2	Cytoplasm	translation regulator
EEF1D	-1	EEF1D	eukaryotic translation elongation factor 1 delta (guanine nucleotide exchange protein)	Cytoplasm	translation regulator
EFTUD2	-1	EFTUD2	elongation factor Tu GTP binding domain containing 2	Nucleus	enzyme
EIF2S2	-1	EIF2S2	eukaryotic translation initiation factor 2, subunit 2 beta, 38kDa	Cytoplasm	translation regulator
EIF3B	1	EIF3B	eukaryotic translation initiation factor 3, subunit B	Cytoplasm	translation regulator
EIF3CL	-1	EIF3C/EIF3CL	eukaryotic translation initiation factor 3, subunit C	Cytoplasm	translation regulator
EIF4A1	1	EIF4A1	eukaryotic translation initiation factor 4A1	Cytoplasm	translation regulator
EIF5A	1	EIF5A	eukaryotic translation initiation factor 5A	Cytoplasm	translation regulator
ELAVL4	1	ELAVL4	ELAV like neuron-specific RNA binding protein 4	Cytoplasm	other
EPN1	1	EPN1	epsin 1	Plasma Membrane	other
EPX	-1	EPX	eosinophil peroxidase	Cytoplasm	enzyme
ERAP1	-1	ERAP1	endoplasmic reticulum aminopeptidase 1	Extracellular Space	peptidase
ERP44	-1	ERP44	endoplasmic reticulum protein 44	Cytoplasm	enzyme
F2	1	F2	coagulation factor II (thrombin)	Extracellular Space	peptidase
FABP5	-1	FABP5	fatty acid binding protein 5 (psoriasis-associated)	Cytoplasm	transporter

FAM173B	1	FAM173B	family with sequence similarity 173, member B	Other	other
FBP1	1	FBP1	fructose-1,6-bisphosphatase 1	Cytoplasm	phosphatase
FEN1	-1	FEN1	flap structure-specific endonuclease 1	Nucleus	enzyme
FGA	1	FGA	fibrinogen alpha chain	Extracellular Space	other
FKBP2	-1	FKBP2	FK506 binding protein 2, 13kDa	Cytoplasm	enzyme
FKBP4	1	FKBP4	FK506 binding protein 4, 59kDa	Nucleus	enzyme
FLG2	-1	FLG2	filaggrin family member 2	Cytoplasm	other
FLNA	1	FLNA	filamin A, alpha	Cytoplasm	other
FUBP1	1	FUBP1	far upstream element (FUSE) binding protein 1	Nucleus	transcription regulator
G3BP1	1	G3BP1	GTPase activating protein (SH3 domain) binding protein 1	Nucleus	enzyme
GANAB	-1	GANAB	glucosidase, alpha; neutral AB	Cytoplasm	enzyme
GAPDH	1	GAPDH	glyceraldehyde-3-phosphate dehydrogenase	Cytoplasm	enzyme
GAR1	-1	GAR1	GAR1 ribonucleoprotein	Nucleus	ion channel
GART	-1	GART	phosphoribosylglycinamide formyltransferase, phosphoribosylglycinamide synthetase, phosphoribosylaminoimidazole synthetase	Cytoplasm	enzyme
GC	1	GC	group-specific component (vitamin D binding protein)	Extracellular Space	transporter
GFER	1	GFER	growth factor, augmentor of liver regeneration	Nucleus	enzyme
GLO1	-1	GLO1	glyoxalase I	Cytoplasm	enzyme
GMPPA	1	GMPPA	GDP-mannose pyrophosphorylase A	Cytoplasm	enzyme
GMPPB	1	GMPPB	GDP-mannose pyrophosphorylase B	Cytoplasm	enzyme
GNAI2	1	GNAI2	guanine nucleotide binding protein (G protein), alpha inhibiting activity polypeptide 2	Plasma Membrane	enzyme
GNB2L1	-1	GNB2L1	guanine nucleotide binding protein (G protein), beta polypeptide 2-like 1	Cytoplasm	enzyme
GOSR1	-1	GOSR1	golgi SNAP receptor complex member 1	Cytoplasm	transporter
GOT2	1	GOT2	glutamic-oxaloacetic transaminase 2, mitochondrial	Cytoplasm	enzyme
GP9	1	GP9	glycoprotein IX (platelet)	Plasma Membrane	other
GPI	-1	GPI	glucose-6-phosphate isomerase	Extracellular Space	enzyme
GSTK1	1	GSTK1	glutathione S-transferase kappa 1	Cytoplasm	enzyme
GSTP1	1	GSTP1	glutathione S-transferase pi 1	Cytoplasm	enzyme
GTF2I	-1	GTF2I	general transcription factor Iii	Nucleus	transcription regulator
GUSB	-1	GUSB	glucuronidase, beta	Cytoplasm	enzyme
H1FX	1	H1FX	H1 histone family, member X	Nucleus	other
H3F3A	-1	H3F3A/H3F3B	H3 histone, family 3A	Nucleus	other
HBA1	1	HBA1/HBA2	hemoglobin, alpha 1	Cytoplasm	transporter
HBB	1	HBB	hemoglobin, beta	Cytoplasm	transporter
HBD	1	HBD	hemoglobin, delta	Other	transporter
HBG1	-1	HBG1	hemoglobin, gamma A	Cytoplasm	other
HCFC1	1	HCFC1	host cell factor C1 (VP16-accessory protein)	Nucleus	transcription regulator
HCLS1	1	HCLS1	hematopoietic cell-specific Lyn substrate 1	Nucleus	other
HDDC3	-1	HDDC3	HD domain containing 3	Other	other
HDFG	1	HDFG	hepatoma-derived growth factor	Extracellular Space	growth factor
HINT1	1	HINT1	histidine triad nucleotide binding protein 1	Nucleus	enzyme
HIST1H1E	1	HIST1H1E	histone cluster 1, H1e	Nucleus	other
HIST1H2A	-1	HIST1H2AG (includes others)	histone cluster 1, H2ag	Nucleus	other
HIST1H2B	-1	HIST1H2BB	histone cluster 1, H2bb	Nucleus	other
HIST1H2BN	-1	HIST1H2BN	histone cluster 1, H2bn	Nucleus	other
HIST1H4A	-1	HIST1H4A (includes others)	histone cluster 1, H4a	Nucleus	other
HLA-B	-1	HLA-B	major histocompatibility complex, class I, B	Plasma Membrane	transmembrane receptor
HMBS	-1	HMBS	hydroxymethylbilane synthase	Cytoplasm	enzyme
HMBG2	1	HMBG2	high mobility group box 2	Nucleus	transcription regulator
HNRNPA1	1	HNRNPA1	heterogeneous nuclear ribonucleoprotein A1	Nucleus	other
HNRNPA3	1	HNRNPA3	heterogeneous nuclear ribonucleoprotein A3	Nucleus	other
HNRNPC	1	HNRNPC	heterogeneous nuclear ribonucleoprotein C (C1/C2)	Nucleus	other
HNRNPF	-1	HNRNPF	heterogeneous nuclear ribonucleoprotein F	Nucleus	other
HNRNPH3	1	HNRNPH3	heterogeneous nuclear ribonucleoprotein H3 (2H9)	Nucleus	other
HNRNPM	1	HNRNPM	heterogeneous nuclear ribonucleoprotein M	Nucleus	other
HSD17B4	-1	HSD17B4	hydroxysteroid (17-beta) dehydrogenase 4	Cytoplasm	enzyme
HSP90B1	-1	HSP90B1	heat shock protein 90kDa beta (Grp94), member 1	Cytoplasm	other
HSPA8	1	HSPA8	heat shock 70kDa protein 8	Cytoplasm	enzyme
HTATSF1	-1	HTATSF1	HIV-1 Tat specific factor 1	Nucleus	transcription regulator
ICAM3	1	ICAM3	intercellular adhesion molecule 3	Plasma Membrane	transmembrane receptor
IGHA2	-1	IGHA2	immunoglobulin heavy constant alpha 2 (A2m marker)	Extracellular Space	other
IGHG4	-1	IGHG4	immunoglobulin heavy constant gamma 4 (G4m marker)	Extracellular Space	other
IGHV4-31	-1	IGHV4-31	immunoglobulin heavy variable 4-31	Other	other
IGJ	-1	IGJ	immunoglobulin J polypeptide, linker protein for immunoglobulin alpha and mu polypeptides	Extracellular Space	other
IGKV1-5	-1	IGKV1-5	immunoglobulin kappa variable 1-5	Extracellular Space	other
IGL@	1	IGL	immunoglobulin lambda locus	Nucleus	other
IMMT	-1	IMMT	inner membrane protein, mitochondrial	Cytoplasm	other
IQGAP1	1	IQGAP1	IQ motif containing GTPase activating protein 1	Cytoplasm	other
ITGA2B	1	ITGA2B	integrin, alpha 2b (platelet glycoprotein IIb of IIb/IIIa complex, antigen CD41)	Plasma Membrane	transmembrane receptor
ITGB7	1	ITGB7	integrin, beta 7	Plasma Membrane	transmembrane receptor
ITGB8	-1	ITGB8	integrin, beta 8	Plasma Membrane	other
ITIH2	1	ITIH2	inter-alpha-trypsin inhibitor heavy chain 2	Extracellular Space	other
IVD	-1	IVD	isovaleryl-CoA dehydrogenase	Cytoplasm	enzyme
KIAA0368	1	KIAA0368	KIAA0368	Cytoplasm	other
KIAA0947	-1	KIAA0947	KIAA0947	Other	other
KRT1	1	KRT1	keratin 1	Cytoplasm	other
KRT10	1	KRT10	keratin 10	Cytoplasm	other
LACRT	1	LACRT	lacritin	Extracellular Space	growth factor
LAMP2	1	LAMP2	lysosomal-associated membrane protein 2	Plasma Membrane	enzyme
LARS	-1	LARS	leucyl-tRNA synthetase	Cytoplasm	enzyme
LASP1	1	LASP1	LIM and SH3 protein 1	Cytoplasm	transporter
LCN1	1	LCN1	lipocalin 1	Extracellular Space	transporter
LCP1	1	LCP1	lymphocyte cytosolic protein 1 (L-plastin)	Cytoplasm	other
LGALS3	-1	LGALS3	lectin, galactoside-binding, soluble, 3	Extracellular Space	other
LGALS7B	-1	LGALS7/LGALS7B	lectin, galactoside-binding, soluble, 7	Extracellular Space	other
LMAN1	1	LMAN1	lectin, mannose-binding, 1	Cytoplasm	other
LMNA	1	LMNA	lamin A/C	Nucleus	other
LMNB1	1	LMNB1	lamin B1	Nucleus	other
LOC44152	-1	LOC441528	uncharacterized LOC441528	Other	other
LONP1	1	LONP1	lon peptidase 1, mitochondrial	Cytoplasm	peptidase
LPIN1	1	LPIN1	lipin 1	Nucleus	phosphatase
LPXN	-1	LPXN	leupaxime	Cytoplasm	transcription regulator
LYZ	1	LYZ	lysozyme	Extracellular Space	enzyme
MAGED2	-1	MAGED2	melanoma antigen family D, 2	Plasma Membrane	other
MAN2A1	-1	MAN2A1	mannosidase, alpha, class 2A, member 1	Cytoplasm	enzyme
MAPRE1	1	MAPRE1	microtubule-associated protein, RP/EB family, member 1	Cytoplasm	other
MARS	-1	MARS	methionyl-tRNA synthetase	Cytoplasm	enzyme
MATR3	1	MATR3	matrin 3	Nucleus	other
MCM5	-1	MCM5	minichromosome maintenance complex component 5	Nucleus	enzyme
MET	-1	MET	met proto-oncogene	Plasma Membrane	kinase
MIA3	-1	MIA3	melanoma inhibitory activity family, member 3	Cytoplasm	other
MIF	1	MIF	macrophage migration inhibitory factor (glycosylation-inhibiting factor)	Extracellular Space	cytokine
MMP8	-1	MMP8	matrix metalloproteinase 8 (neutrophil collagenase)	Extracellular Space	peptidase
MMP9	-1	MMP9	matrix metalloproteinase 9 (gelatinase B, 92kDa gelatinase, 92kDa type IV collagenase)	Extracellular Space	peptidase
MNDA	1	MNDA	myeloid cell nuclear differentiation antigen	Nucleus	transcription regulator
MOGS	-1	MOGS	mannosyl-oligosaccharide glucosidase	Cytoplasm	enzyme
MRPL14	-1	MRPL14	mitochondrial ribosomal protein L14	Cytoplasm	other
MRPL40	-1	MRPL40	mitochondrial ribosomal protein L40	Cytoplasm	other
MRPL43	-1	MRPL43	mitochondrial ribosomal protein L43	Cytoplasm	translation regulator
MRPS36	-1	MRPS36	mitochondrial ribosomal protein S36	Cytoplasm	other
MSN	1	MSN	moesin	Plasma Membrane	other
MT-CO2	-1	MT-CO2	cytochrome c oxidase subunit II	Cytoplasm	enzyme
MX1	1	MX1	myxovirus (influenza virus) resistance 1, interferon-inducible protein p78 (mouse)	Cytoplasm	enzyme
MYH9	1	MYH9	myosin, heavy chain 9, non-muscle	Cytoplasm	transporter
MYL6B	1	MYL6B	myosin, light chain 6B, alkali, smooth muscle and non-muscle	Cytoplasm	other
NAA20	1	NAA20	N(alpha)-acetyltransferase 20, NatB catalytic subunit	Cytoplasm	enzyme
LSM8	1	NAA38	N(alpha)-acetyltransferase 38, NatC auxiliary subunit	Nucleus	other
NANS	-1	NANS	N-acetylneuraminic acid synthase	Cytoplasm	enzyme
NAP1L1	1	NAP1L1	nucleosome assembly protein 1-like 1	Nucleus	other
NCALD	-1	NCALD	neurocalcin delta	Cytoplasm	other
NDUFA9	1	NDUFA9	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 9, 39kDa	Cytoplasm	enzyme
NDUFAB1	-1	NDUFAB1	NADH dehydrogenase (ubiquinone) 1, alpha/beta subcomplex, 1, 8kDa	Cytoplasm	enzyme

NDUFB10	-1	NDUFB10	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 10, 22kDa	Cytoplasm	enzyme
NDUFB4	-1	NDUFB4	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 4, 15kDa	Cytoplasm	transporter
NDUFB9	-1	NDUFB9	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 9, 22kDa	Cytoplasm	enzyme
NDUFS1	-1	NDUFS1	NADH dehydrogenase (ubiquinone) Fe-S protein 1, 75kDa (NADH-coenzyme Q reductase)	Cytoplasm	enzyme
NDUFS3	-1	NDUFS3	NADH dehydrogenase (ubiquinone) Fe-S protein 3, 30kDa (NADH-coenzyme Q reductase)	Cytoplasm	enzyme
NDUFS7	-1	NDUFS7	NADH dehydrogenase (ubiquinone) Fe-S protein 7, 20kDa (NADH-coenzyme Q reductase)	Cytoplasm	enzyme
NHP2	-1	NHP2	NHP2 ribonucleoprotein	Nucleus	other
NOMO2	-1	NOMO1 (includes others)	NODAL modulator 1	Plasma Membrane	other
NOP56	-1	NOP56	NOP56 ribonucleoprotein	Nucleus	other
NPM1	-1	NPM1	nucleophosmin (nucleolar phosphoprotein B23, numatrin)	Cytoplasm	transcription regulator
NSFL1C	-1	NSFL1C	NSFL1 (p97) cofactor (p47)	Cytoplasm	other
NUCB2	-1	NUCB2	nucleobindin 2	Nucleus	other
OAS2	-1	OAS2	2'-5'-oligoadenylate synthetase 2, 69/71kDa	Cytoplasm	enzyme
OGDH	-1	OGDH	oxoglutarate (alpha-ketoglutarate) dehydrogenase (lipoamide)	Cytoplasm	enzyme
OSBPL2	-1	OSBPL2	oxysterol binding protein-like 2	Cytoplasm	other
OTUB1	-1	OTUB1	OTU domain, ubiquitin aldehyde binding 1	Cytoplasm	enzyme
PA2G4	-1	PA2G4	proliferation-associated 2G4, 38kDa	Nucleus	transcription regulator
PARP1	-1	PARP1	poly (ADP-ribose) polymerase 1	Nucleus	enzyme
PBXIP1	-1	PBXIP1	pre-B-cell leukemia homeobox interacting protein 1	Nucleus	transcription regulator
PCBP2	-1	PCBP2	poly(rC) binding protein 2	Nucleus	other
PCBP3	-1	PCBP3	poly(rC) binding protein 3	Nucleus	other
PCK2	-1	PCK2	phosphoenolpyruvate carboxykinase 2 (mitochondrial)	Cytoplasm	kinase
PDK1	-1	PDK1	pyruvate dehydrogenase kinase, isozyme 1	Cytoplasm	kinase
PDLIM3	-1	PDLIM3	PDZ and LIM domain 3	Cytoplasm	other
PDS5B	-1	PDS5B	PDS5, regulator of cohesion maintenance, homolog B (S. cerevisiae)	Nucleus	other
PDXK	-1	PDXK	pyridoxal (pyridoxine, vitamin B6) kinase	Cytoplasm	kinase
PEBP1	-1	PEBP1	phosphatidylethanolamine binding protein 1	Cytoplasm	other
PELP1	-1	PELP1	proline, glutamate and leucine rich protein 1	Nucleus	other
PHB	-1	PHB	prohibitin	Nucleus	transcription regulator
PHGDH	-1	PHGDH	phosphoglycerate dehydrogenase	Cytoplasm	enzyme
PHPT1	-1	PHPT1	phosphohistidine phosphatase 1	Cytoplasm	phosphatase
PIP	-1	PIP	prolactin-induced protein	Extracellular Space	other
PM20D2	-1	PM20D2	peptidase M20 domain containing 2	Other	other
PNKD	-1	PNKD	paroxysmal nonkinesigenic dyskinesia	Nucleus	other
PNP	-1	PNP	purine nucleoside phosphorylase	Nucleus	enzyme
POLR1C	-1	POLR1C	polymerase (RNA) I polypeptide C, 30kDa	Nucleus	enzyme
PPA1	-1	PPA1	pyrophosphatase (inorganic) 1	Cytoplasm	enzyme
PPIB	-1	PPIB	peptidylprolyl isomerase B (cyclophilin B)	Cytoplasm	enzyme
PPP1R14B	-1	PPP1R14B	protein phosphatase 1, regulatory (inhibitor) subunit 14B	Cytoplasm	phosphatase
PRDX2	-1	PRDX2	peroxiredoxin 2	Cytoplasm	enzyme
PRDX3	-1	PRDX3	peroxiredoxin 3	Cytoplasm	enzyme
PRDX4	-1	PRDX4	peroxiredoxin 4	Cytoplasm	enzyme
PROG2	-1	PROG2	proteoglycan 2, bone marrow (natural killer cell activator, eosinophil granule major basic protein)	Extracellular Space	other
PROS1	-1	PROS1	protein S (alpha)	Extracellular Space	other
PRPF6	-1	PRPF6	pre-mRNA processing factor 6	Nucleus	transcription regulator
PRPF8	-1	PRPF8	pre-mRNA processing factor 8	Nucleus	other
PRSS1	-1	PRSS1	protease, serine, 1 (trypsin 1)	Extracellular Space	peptidase
PSAT1	-1	PSAT1	phosphoserine aminotransferase 1	Cytoplasm	enzyme
PSMA4	-1	PSMA4	proteasome (prosome, macropain) subunit, alpha type, 4	Cytoplasm	peptidase
PSMA6	-1	PSMA6	proteasome (prosome, macropain) subunit, alpha type, 6	Cytoplasm	peptidase
PSMA8	-1	PSMA8	proteasome (prosome, macropain) subunit, alpha type, 8	Cytoplasm	peptidase
PSMB2	-1	PSMB2	proteasome (prosome, macropain) subunit, beta type, 2	Cytoplasm	peptidase
PSMC5	-1	PSMC5	proteasome (prosome, macropain) 26S subunit, ATPase, 5	Nucleus	transcription regulator
PSMD7	-1	PSMD7	proteasome (prosome, macropain) 26S subunit, non-ATPase, 7	Cytoplasm	other
PSME1	-1	PSME1	proteasome (prosome, macropain) activator subunit 1 (PA28 alpha)	Cytoplasm	other
PSPC1	-1	PSPC1	paraspeckle component 1	Nucleus	other
PTBP1	-1	PTBP1	polypyrimidine tract binding protein 1	Nucleus	enzyme
PTGES3	-1	PTGES3	prostaglandin E synthase 3 (cytosolic)	Cytoplasm	enzyme
PTMA	-1	PTMA	prothymosin, alpha	Nucleus	other
RAB5C	-1	RAB5C	RAB5C, member RAS oncogene family	Cytoplasm	enzyme
RAD51AP2	-1	RAD51AP2	RAD51 associated protein 2	Other	other
RANBP2	-1	RANBP2	RAN binding protein 2	Nucleus	enzyme
RASA4B	-1	RASA4B	RAS p21 protein activator 4B	Other	other
RBM3	-1	RBM3	RNA binding motif (RNP1, RRM) protein 3	Cytoplasm	other
RBM4	-1	RBM4	RNA binding motif protein 4	Nucleus	other
RETN	-1	RETN	resistin	Extracellular Space	other
RHOC	-1	RHOC	ras homolog family member C	Plasma Membrane	enzyme
FAM82A2	-1	RMDN3	regulator of microtubule dynamics 3	Cytoplasm	other
RNASE3	-1	RNASE3	ribonuclease, RNase A family, 3	Extracellular Space	enzyme
RPL13	-1	RPL13	ribosomal protein L13	Cytoplasm	other
RPL14	-1	RPL14	ribosomal protein L14	Cytoplasm	other
RPL19	-1	RPL19	ribosomal protein L19	Cytoplasm	other
RPL22	-1	RPL22	ribosomal protein L22	Nucleus	other
RPL27	-1	RPL27	ribosomal protein L27	Cytoplasm	other
RPL31	-1	RPL31	ribosomal protein L31	Other	other
RPLP0	-1	RPLP0	ribosomal protein, large, P0	Cytoplasm	other
RPN1	-1	RPN1	ribophorin 1	Cytoplasm	enzyme
RPS12	-1	RPS12	ribosomal protein S12	Cytoplasm	other
RPS15	-1	RPS15	ribosomal protein S15	Cytoplasm	other
RPS23	-1	RPS23	ribosomal protein S23	Cytoplasm	translation regulator
RPS24	-1	RPS24	ribosomal protein S24	Cytoplasm	other
RPS25	-1	RPS25	ribosomal protein S25	Cytoplasm	other
RPS3A	-1	RPS3A	ribosomal protein S3A	Cytoplasm	other
RPS6	-1	RPS6	ribosomal protein S6	Cytoplasm	other
RPS7	-1	RPS7	ribosomal protein S7	Cytoplasm	other
RRBP1	-1	RRBP1	ribosome binding protein 1	Cytoplasm	other
C22orf28	-1	RTCB	RNA 2',3'-cyclic phosphate and 5'-OH ligase	Cytoplasm	enzyme
RTN4	-1	RTN4	reticulon 4	Cytoplasm	other
RUVBL2	-1	RUVBL2	RuvB-like AAA ATPase 2	Nucleus	transcription regulator
S100A11	-1	S100A11	S100 calcium binding protein A11	Cytoplasm	other
S100A7A	-1	S100A7A	S100 calcium binding protein A7A	Cytoplasm	other
S100A9	-1	S100A9	S100 calcium binding protein A9	Cytoplasm	other
SAMM50	-1	SAMM50	SAMM50 sorting and assembly machinery component	Cytoplasm	other
SARNP	-1	SARNP	SAP domain containing ribonucleoprotein	Nucleus	other
SART1	-1	SART1	squamous cell carcinoma antigen recognized by T cells	Nucleus	other
SDC1	-1	SDC1	syndecan 1	Plasma Membrane	enzyme
SEC11C	-1	SEC11C	SEC11 homolog C (S. cerevisiae)	Cytoplasm	peptidase
SEC13	-1	SEC13	SEC13 homolog (S. cerevisiae)	Cytoplasm	transporter
SEC22B	-1	SEC22B	SEC22 vesicle trafficking protein homolog B (S. cerevisiae) (gene/pseudogene)	Other	other
SEC61A1	-1	SEC61A1	Sec61 alpha 1 subunit (S. cerevisiae)	Cytoplasm	transporter
SEC63	-1	SEC63	SEC63 homolog (S. cerevisiae)	Cytoplasm	transporter
SELENBP1	-1	SELENBP1	selenium binding protein 1	Cytoplasm	other
SERBP1	-1	SERBP1	SERPINE1 mRNA binding protein 1	Nucleus	other
SERPINB3	-1	SERPINB3	serpin peptidase inhibitor, clade B (ovalbumin), member 3	Cytoplasm	other
SET	-1	SET	SET nuclear oncogene	Nucleus	phosphatase
SGTA	-1	SGTA	small glutamine-rich tetrapeptide repeat (TPR)-containing, alpha	Cytoplasm	other
SH3BGR1	-1	SH3BGR1	SH3 domain binding glutamic acid-rich protein like 3	Nucleus	other
SHISA6	-1	SHISA6	shisa family member 6	Other	other
SLC25A3	-1	SLC25A3	solute carrier family 25 (mitochondrial carrier; phosphate carrier), member 3	Cytoplasm	transporter
SLC9A3R1	-1	SLC9A3R1	solute carrier family 9, subfamily A (NHE3, cation proton antiporter 3), member 3 regulator 1	Plasma Membrane	other
SNRNP20K	-1	SNRNP20K	small nuclear ribonucleoprotein 200kDa (U5)	Nucleus	enzyme
SNRPD3	-1	SNRPD3	small nuclear ribonucleoprotein D3 polypeptide 18kDa	Nucleus	other
SOD1	-1	SOD1	superoxide dismutase 1, soluble	Cytoplasm	enzyme
SPAG9	-1	SPAG9	sperm associated antigen 9	Cytoplasm	other
SPCS2	-1	SPCS2	signal peptidase complex subunit 2 homolog (S. cerevisiae)	Cytoplasm	other
SPTB	-1	SPTB	spectrin, beta, erythrocytic	Plasma Membrane	other
SRP14	-1	SRP14	signal recognition particle 14kDa (homologous Alu RNA binding protein)	Cytoplasm	other
STIM2	-1	STIM2	stromal interaction molecule 2	Plasma Membrane	transporter
STOM	-1	STOM	stomatin	Plasma Membrane	other
STT3A	-1	STT3A	STT3A, subunit of the oligosaccharyltransferase complex (catalytic)	Plasma Membrane	enzyme
STX5	-1	STX5	syntaxin 5	Cytoplasm	transporter

TAGLN2	1	TAGLN2	transgelin 2	Cytoplasm	other
TAP1	-1	TAP1	transporter 1, ATP-binding cassette, sub-family B (MDR/TAP)	Cytoplasm	transporter
TAPBP	-1	TAPBP	TAP binding protein (tapasin)	Cytoplasm	transporter
TCP1	-1	TCP1	t-complex 1	Cytoplasm	other
TFG	1	TFG	TRK-fused gene	Cytoplasm	other
TGOLN2	1	TGOLN2	trans-golgi network protein 2	Cytoplasm	other
TJP1	1	TJP1	tight junction protein 1	Plasma Membrane	other
TLN1	1	TLN1	talin 1	Plasma Membrane	other
TMED10	-1	TMED10	transmembrane emp24-like trafficking protein 10 (yeast)	Cytoplasm	transporter
TMED7	-1	TMED7	transmembrane emp24 protein transport domain containing 7	Cytoplasm	transporter
TMED9	-1	TMED9	transmembrane emp24 protein transport domain containing 9	Cytoplasm	transporter
TMEM205	-1	TMEM205	transmembrane protein 205	Other	other
TMEM43	1	TMEM43	transmembrane protein 43	Nucleus	other
TMPO	1	TMPO	thymopoietin	Nucleus	other
TMX1	1	TMX1	thioredoxin-related transmembrane protein 1	Cytoplasm	enzyme
TOP2A	-1	TOP2A	topoisomerase (DNA) II alpha 170kDa	Nucleus	enzyme
TPM3	1	TPM3	tropomyosin 3	Cytoplasm	other
TPM4	1	TPM4	tropomyosin 4	Cytoplasm	other
TRIM28	-1	TRIM28	tripartite motif containing 28	Nucleus	transcription regulator
TROVE2	1	TROVE2	TROVE domain family, member 2	Nucleus	other
TUBA1C	-1	TUBA1C	tubulin, alpha 1c	Cytoplasm	other
TUBA4A	1	TUBA4A	tubulin, alpha 4a	Cytoplasm	other
TUBB	-1	TUBB	tubulin, beta class I	Cytoplasm	other
TUBB2C	-1	TUBB4B	tubulin, beta 4B class IVb	Cytoplasm	other
TXNDC5	-1	TXNDC5	thioredoxin domain containing 5 (endoplasmic reticulum)	Cytoplasm	enzyme
TXNL1	1	TXNL1	thioredoxin-like 1	Cytoplasm	enzyme
UZAF2	1	UZAF2	UZ small nuclear RNA auxiliary factor 2	Nucleus	other
UBE2NL	-1	UBE2NL	ubiquitin-conjugating enzyme E2N-like	Other	enzyme
UBQLN1	1	UBQLN1	ubiquilin 1	Cytoplasm	other
UBR4	-1	UBR4	ubiquitin protein ligase E3 component n-recogin 4	Nucleus	enzyme
UCHL1	1	UCHL1	ubiquitin carboxyl-terminal esterase L1 (ubiquitin thiolesterase)	Cytoplasm	peptidase
UQCRC1	-1	UQCRC1	ubiquinol-cytochrome c reductase core protein I	Cytoplasm	enzyme
UQCRC2	-1	UQCRC2	ubiquinol-cytochrome c reductase core protein II	Cytoplasm	enzyme
UROD	-1	UROD	uroporphyrinogen decarboxylase	Cytoplasm	enzyme
VAPA	1	VAPA	VAMP (vesicle-associated membrane protein)-associated protein A, 33kDa	Plasma Membrane	other
VARS	1	VARS	valyl-tRNA synthetase	Cytoplasm	enzyme
VCP	-1	VCP	valosin containing protein	Cytoplasm	enzyme
VDAC1	-1	VDAC1	voltage-dependent anion channel 1	Cytoplasm	ion channel
VDAC2	1	VDAC2	voltage-dependent anion channel 2	Cytoplasm	ion channel
VPS37B	-1	VPS37B	vacuolar protein sorting 37 homolog B (S. cerevisiae)	Cytoplasm	other
VPS41	-1	VPS41	vacuolar protein sorting 41 homolog (S. cerevisiae)	Cytoplasm	transporter
WAS	1	WAS	Wiskott-Aldrich syndrome	Cytoplasm	other
WBP11	-1	WBP11	WW domain binding protein 11	Nucleus	phosphatase
WDR1	1	WDR1	WD repeat domain 1	Extracellular Space	other
WIPF1	-1	WIPF1	WAS/WASL interacting protein family, member 1	Cytoplasm	other
XRCC5	-1	XRCC5	X-ray repair complementing defective repair in Chinese hamster cells 5 (double-strand-break rejoining)	Nucleus	enzyme
YBX1	1	YBX1	Y box binding protein 1	Nucleus	transcription regulator
DKFZp761	1				
15kDa	1				
7kDa	1				
EEF1AL3	1				
FLJ37148	1				
FLJ51310	1				
FLJ53378	1				
FLJ58832	1				
FLJ59219	1				
FLJ59379	1				
LOC39038	1				
LOC65388	1				
LOC73175	1				
P180/ribos	1				
12kDa	-1				
13kDa	-1				
14kDa	-1				
27kDa	-1				
44kDa	-1				
FLJ46889	-1				
FLJ46898	-1				
FLJ52843	-1				
FLJ52929	-1				
FLJ61039	-1				
LOC10013	-1				
LOC10029	-1				
LOC65356	-1				