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COMMON DIFFERENTIALLY EXPRESSED GENES AND PATHWAYS CORRELATING BOTH CORONARY ARTERY DISEASE AND ATRIAL FIBRILLATION

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Supplemental Table 1: Abbreviations used in the paper

Abbreviation	Full name
ABCA5	ATP binding cassette subfamily A member 5
ABCB6	ATP binding cassette subfamily B member 6 (Langereis blood group)
ABCB9	ATP binding cassette subfamily B member 9
ABCC10	ATP binding cassette subfamily C member 10
ABCC13	ATP binding cassette subfamily C member 13 (pseudogene)
ABCC5	ATP binding cassette subfamily C member 5
ABCD3	ATP binding cassette subfamily D member 3
ABCE1	ATP binding cassette subfamily E member 1
ABCG1	ATP binding cassette subfamily G member 1
ABCG4	ATP binding cassette subfamily G member 4
ABHD18	Abhydrolase domain containing 18
ABHD2	Abhydrolase domain containing 2
ABHD5	Abhydrolase domain containing 5
ABI2	Abl-interactor 2
ABTB1	Ankyrin repeat and BTB domain containing 1
ACACB	Acetyl-coa carboxylase beta
ACAD8	Acyl-coa dehydrogenase family member 8

ACCS	1-aminocyclopropane-1-carboxylate synthase homolog (inactive)
ACER3	Alkaline ceramidase 3
ACKR1	Atypical chemokine receptor 1 (Duffy blood group)
ACKR3	Atypical chemokine receptor 3
ACO2	Aconitase 2
ACRC	Acidic repeat containing
ACSL1	Acyl-coa synthetase long-chain family member 1
ACTA1	Actin, alpha 1, skeletal muscle
ACVR2A	Activin A receptor type 2A
ADAMTS10	ADAM metallopeptidase with thrombospondin type 1 motif 10
ADAMTS2	ADAM metallopeptidase with thrombospondin type 1 motif 2
ADAMTSL3	ADAMTS like 3
ADAMTSL5	ADAMTS like 5
ADAP1	Arfgap with dual PH domains 1
ADCY10P1	Adenylate cyclase 10, soluble pseudogene 1
ADGRG3	Adhesion G protein-coupled receptor G3
AF	Atrial fibrillation
AFF3	AF4/FMR2 family member 3
AFG3L1P	AFG3 like matrix AAA peptidase subunit 1, pseudogene
AFG3L2	AFG3 like matrix AAA peptidase subunit 2
AGA	Aspartylglucosaminidase
AGBL3	ATP/GTP binding protein like 3
AGL	Amylo-alpha-1, 6-glucosidase, 4-alpha-glucanotransferase
AGMAT	Agmatinase
AGPS	Alkylglycerone phosphate synthase
AHSA2	AHA1, activator of heat shock 90kda protein atpase homolog 2 (yeast)
AHSP	Alpha hemoglobin stabilizing protein
AIFM1	Apoptosis inducing factor, mitochondria associated 1
AIMP1	Aminoacyl trna synthetase complex interacting multifunctional protein 1
AIRE	Autoimmune regulator
AKAP13	A-kinase anchoring protein 13
AKAP8	A-kinase anchoring protein 8
AKAP9	A-kinase anchoring protein 9
AKR1B1	Aldo-keto reductase family 1 member B
AKR1B10	Aldo-keto reductase family 1 member B10
ALAS2	Alpha-hemoglobin-stabilizing protein
ALDH8A1	Aldehyde dehydrogenase 8 family member A1
ALG13	ALG13, UDP-N-acetylglucosaminyltransferase subunit
ALMS1	ALMS1, centrosome and basal body associated protein
ALPPL2///ALPP	Alkaline phosphatase, placental like 2///alkaline phosphatase, placental
AMOTL1	Angiomotin like 1
ANAPC7	Anaphase promoting complex subunit 7
ANGEL2	Angel homolog 2
ANGPTL4	Angiopoietin like 4
ANK1	Ankyrin 1

ANK3	Ankyrin 3, node of Ranvier (ankyrin G)
ANKH	ANKH inorganic pyrophosphate transport regulator
ANKMY2	Ankyrin repeat and MYND domain containing 2
ANKRA2	Ankyrin repeat family A member 2
ANKRD10	Ankyrin repeat domain 10
ANKRD11	Ankyrin repeat domain 11
ANKRD12	Ankyrin repeat domain 12
ANKRD13C	Ankyrin repeat domain 13C
ANKRD2	Ankyrin repeat domain 2
ANKRD40	Ankyrin repeat domain 40
ANP32A	Acidic nuclear phosphoprotein 32 family member A
ANP32E	Acidic nuclear phosphoprotein 32 family member E
ANXA2R	Annexin A2 receptor
ANXA6	Annexin A6
AP1G2	Adaptor related protein complex 1 gamma 2 subunit
AP2A1	Adaptor related protein complex 2 alpha 1 subunit
AP5M1	Adaptor related protein complex 5 mu 1 subunit
APBA2	Amyloid beta precursor protein binding family A member 2
APC2	APC2, WNT signaling pathway regulator
APCDD1L-AS1	APCDD1L antisense RNA 1 (head to head)
API5	Apoptosis inhibitor 5
APOA1	Apolipoprotein A1
APO-BEC3A_B///APOBEC3A	APOBEC3A and APOBEC3B deletion hybrid///apolipoprotein B mrna editing enzyme catalytic subunit 3A
APOBEC3B	Apolipoprotein B mrna editing enzyme catalytic subunit 3B
APOL3	Apolipoprotein L3
APP	Amyloid beta precursor protein
AQP9	Aquaporin 9
ARGLU1	Arginine and glutamate rich 1
ARHGAP32	Rho gtpase activating protein 32
ARHGAP33	Rho gtpase activating protein 33
ARHGAP5	Rho gtpase activating protein 5
ARHGEF12	Rho guanine nucleotide exchange factor 12
ARHGEF3	Rho guanine nucleotide exchange factor 3
ARHGEF7	Rho guanine nucleotide exchange factor 7
ARHGEF9	Cdc42 guanine nucleotide exchange factor 9
ARID2	AT-rich interaction domain 2
ARIH2	Ariadne RBR E3 ubiquitin protein ligase 2
ARL17B///ARL17A	ADP ribosylation factor like gtpase 17B///ADP ribosylation factor like gtpase 17A
ARL4A	ADP ribosylation factor like gtpase 4A
ARMCX5	Armadillo repeat containing, X-linked 5
ARSI	Arylsulfatase family member I
ART4	ADP-ribosyltransferase 4 (Dombrock blood group)

ASB6	Ankyrin repeat and SOCS box containing 6
ASMTL	Acetylserotonin O-methyltransferase-like
ASNS	Asparagine synthetase (glutamine-hydrolyzing)
ASXL1	Additional sex combs like 1, transcriptional regulator
ASXL2	Additional sex combs like 2, transcriptional regulator
ATAD2B	Atpase family, AAA domain containing 2B
ATF2	Activating transcription factor 2
ATF3	Activating transcription factor 3
ATF6B	Activating transcription factor 6 beta
ATF7	Activating transcription factor 7
ATF7IP2	Activating transcription factor 7 interacting protein 2
ATG10	Autophagy related 10
ATG14	Autophagy related 14
ATM	ATM serine/threonine kinase
ATP10A	Atpase phospholipid transporting 10A (putative)
ATP11A-AS1	ATP11A antisense RNA 1
ATP2A2	Atpase sarcoplasmic/endoplasmic reticulum Ca2+ transporting 2
ATP5C1	ATP synthase, H+ transporting, mitochondrial F1 complex, gamma polypeptide 1
ATP6V1H	Atpase H+ transporting V1 subunit H
ATP8B1	Atpase phospholipid transporting 8B1
ATR	ATR serine/threonine kinase
ATXN7L1	Ataxin 7 like 1
AXIN2	Axin 2
B3GNT2	UDP-glcnac:betagal beta-1,3-N-acetylglucosaminyltransferase 2
BAALC-AS2	BAALC antisense RNA 2
BACH2	BTB domain and CNC homolog 2
BAG1	BCL2 associated athanogene 1
BASP1	Brain abundant membrane attached signal protein 1
BBOF1	Basal body orientation factor 1
BBS10	Bardet-Biedl syndrome 10
BBS7	Bardet-Biedl syndrome 7
BBS9	Bardet-Biedl syndrome 9
BBX	BBX, HMG-box containing
BCAS4	Breast carcinoma amplified sequence 4
BCCIP	BRCA2 and CDKN1A interacting protein
BCL2L1	BCL2 like 1
BDH2	3-hydroxybutyrate dehydrogenase, type 2
BEX2	Brain expressed X-linked 2
BEX2	Brain expressed X-linked 2
BEX5	Brain expressed X-linked 5
BICD1	BICD cargo adaptor 1
BICDL1	BICD family like cargo adaptor 1
BIRC6	Baculoviral IAP repeat containing 6

BIVM	Basic, immunoglobulin-like variable motif containing
BLNK	B-cell linker
BLVRA	Biliverdin reductase A
BLZF1	Basic leucine zipper nuclear factor 1
BOLA2	Bola family member 2
BORCS5	BLOC-1 related complex subunit 5
BP	Biological process
BPTF	Bromodomain PHD finger transcription factor
BRCC3	BRCA1/BRCA2-containing complex subunit 3
BRINP3	BMP/retinoic acid inducible neural specific 3
BRWD1	Bromodomain and WD repeat domain containing 1
BSG	Basigin (Ok blood group)
BTAF1	B-TFIID TATA-box binding protein associated factor 1
BTBD11	BTB domain containing 11
BTBD3	BTB domain containing 3
BTG1	BTG anti-proliferation factor 1
C11orf1	Chromosome 11 open reading frame 1
C11orf31	Chromosome 11 open reading frame 31
C11orf80	Chromosome 11 open reading frame 80
C11orf94	Chromosome 11 open reading frame 94
C12orf65	Chromosome 12 open reading frame 65
C12orf66	Chromosome 12 open reading frame 66
C17orf99	Chromosome 17 open reading frame 99
C1GALT1	Core 1 synthase, glycoprotein-N-acetylgalactosamine 3-beta-galacto-syltransferase 1
C1orf109	Chromosome 1 open reading frame 109
C1orf228	Chromosome 1 open reading frame 228
C1orf27	Chromosome 1 open reading frame 27
C1orf43	Chromosome 1 open reading frame 43
C1QC	Complement C1q C chain
C1QTNF5///MFRP	C1q and tumor necrosis factor related protein 5///membrane frizzled-related protein
C21orf33	Chromosome 21 open reading frame 33
C21orf62-AS1	C21orf62 antisense RNA 1
C3	Complement component 3
C3orf38	Chromosome 3 open reading frame 38
C4B_2///C4B///C4A	Complement component 4B (Chido blood group), copy 2///complement component 4B (Chido blood group)///complement component 4A (Rodgers blood group)
C4BPA	Complement component 4 binding protein alpha
C5orf24	Chromosome 5 open reading frame 24
C5orf58	Chromosome 5 open reading frame 58
C5orf63	Chromosome 5 open reading frame 63
C6orf136	Chromosome 6 open reading frame 136
C6orf62	Chromosome 6 open reading frame 62

C7orf55-LUC7L2///LUC7 L2	C7orf55-LUC7L2 readthrough///LUC7 like 2, pre-mrna splicing factor
C8orf44-SGK3///C8orf44/ //SGK3	C8orf44-SGK3 readthrough///chromosome 8 open reading frame 44///serum/glucocorticoid regulated kinase family member 3
C9orf116	Chromosome 9 open reading frame 116
C9orf135	Chromosome 9 open reading frame 135
C9orf85	Chromosome 9 open reading frame 85
CA1	Carbonic anhydrase 1
CACNG4	Calcium voltage-gated channel auxiliary subunit gamma 4
CAD	Coronary artery disease
CADPS	Calcium dependent secretion activator
CADPS2	Calcium dependent secretion activator 2
CALM3///CALM 2///CALM1	Calmodulin 3///calmodulin 2///calmodulin 1
CALU	Calumenin
CAMK2D	Calcium/calmodulin dependent protein kinase II delta
CAMK4	Calcium/calmodulin dependent protein kinase IV
CAND1	Cullin associated and neddylation dissociated 1
CAND1.11///AM PD3	Uncharacterized LOC100130460///adenosine monophosphate deami-nase 3
CANT1	Calcium activated nucleotidase 1
CANX	Calnexin
CAPN1	Calpain 1
CAPN3	Calpain 3
CAPN7	Calpain 7
CAPRIN2	Caprin family member 2
CAPS	Calcyphosine
CARMN	Cardiac mesoderm enhancer-associated non-coding RNA
CARNMT1	Carnosine N-methyltransferase 1
CASD1	CAS1 domain containing 1
CASP4	Caspase 4
CASQ1	Calsequestrin 1
CAT	Catalase
CBLB	Cbl proto-oncogene B
CBR4	Carbonyl reductase 4
CBWD7///CBWD 6///CBWD3///CB WD5///CBWD2/// CBWD1	COBW domain containing 7///COBW domain containing 6///COBW do-main containing 3///COBW domain containing 5///COBW domain con-taining 2///COBW domain containing 1
CBX5	Chromobox 5
CC	Cellular component (CC)
CCAR1	Cell division cycle and apoptosis regulator 1
CCBE1	Collagen and calcium binding EGF domains 1
CCDC134	Coiled-coil domain containing 134

CCDC14	Coiled-coil domain containing 14
CCDC154	Coiled-coil domain containing 154
CCDC18	Coiled-coil domain containing 18
CCDC186	Coiled-coil domain containing 186
CCDC187	Coiled-coil domain containing 187
CCDC191	Coiled-coil domain containing 191
CCDC66	Coiled-coil domain containing 66
CCDC82	Coiled-coil domain containing 82
CCDC84	Coiled-coil domain containing 84
CCDC88A	Coiled-coil domain containing 88A
CCDC91	Coiled-coil domain containing 91
CCDC93	Coiled-coil domain containing 93
CCL18	C-C motif chemokine ligand 18
CCNA2	Cyclin A2
CCND1	Cyclin D1
CCND2	Cyclin D2
CCND2	Cyclin D2
CCNI	Cyclin I
CCNJL	Cyclin J like
CCNL1	Cyclin L1
CCNL2	Cyclin L2
CCNT2	Cyclin T2
CCP110	Centriolar coiled-coil protein 110
CCT2	Chaperonin containing TCP1 subunit 2
CD46	CD46 molecule
CD47	CD47 molecule
CD48	CD48 molecule
CD69	CD69 molecule
CD79B	CD79b molecule
CD96	CD96 molecule
CDAN1	Codanin 1
CDC42BPA	CDC42 binding protein kinase alpha
CDC42EP2	CDC42 effector protein 2
CDC7	Cell division cycle 7
CDH19	Cadherin 19
CDH2	Cadherin 2
CDK10	Cyclin dependent kinase 10
CDK11A///CDK11B	Cyclin dependent kinase 11A///cyclin dependent kinase 11B
CDK13	Cyclin dependent kinase 13
CDK15	Cyclin dependent kinase 15
CDK8	Cyclin dependent kinase 8
CEACAM1	Carcinoembryonic antigen related cell adhesion molecule 1
CEACAM3	Carcinoembryonic antigen related cell adhesion molecule 3

CECR5	Cat eye syndrome chromosome region, candidate 5
CENPK	Centromere protein K
CENPN	Centromere protein N
CENPV	Centromere protein V
CEP135	Centrosomal protein 135
CEP152	Centrosomal protein 152
CEP192	Centrosomal protein 192
CEP290	Centrosomal protein 290
CEP350	Centrosomal protein 350
CEP44	Centrosomal protein 44
CEP76	Centrosomal protein 76
CEP95	Centrosomal protein 95
CES2	Carboxylesterase 2
CFDP1	Craniofacial development protein 1
CFL1	Cofilin 1
CFL2	Cofilin 2
CFLAR	CASP8 and FADD like apoptosis regulator
CHADL	Chondroadherin like
CHCHD7	Coiled-coil-helix-coiled-coil-helix domain containing 7
CHD2	Chromodomain helicase DNA binding protein 2
CHD9	Chromodomain helicase DNA binding protein 9
CHGA	Chromogranin A
CHI3L1	Chitinase 3 like 1
CHKB	Choline kinase beta
CHPT1	Choline phosphotransferase 1
CHRM3-AS2	CHRM3 antisense RNA 2
CIRBP	Cold inducible RNA binding protein
CLC	Charcot-Leyden crystal galectin
CLCC1	Chloride channel CLIC like 1
CLDN14	Claudin 14
CLDN18	Claudin 18
CLDN6	Claudin 6
CLDND1	Claudin domain containing 1
CLEC2D	C-type lectin domain family 2 member D
CLEC7A	C-type lectin domain family 7 member A
CLIC3	Chloride intracellular channel 3
CLK4	CDC like kinase 4
CLMP	CXADR like membrane protein
CLOCK	Clock circadian regulator
CMAHP	Cytidine monophospho-N-acetylneuraminic acid hydroxylase, pseudo-gene
CNDP2	CNDP dipeptidase 2 (metallopeptidase M20 family)
CNOT7	CCR4-NOT transcription complex subunit 7
CNR1	Cannabinoid receptor 1

CNTN2	Contactin 2
CNTRL	Centriolin
COA5	Cytochrome c oxidase assembly factor 5
COBLL1	Cordon-bleu WH2 repeat protein like 1
COL11A2	Collagen type XI alpha 2 chain
COL17A1	Collagen type XVII alpha 1 chain
COL1A1	Collagen type I alpha 1 chain
COL1A2	Collagen type I alpha 2 chain
COL3A1	Collagen type III alpha 1 chain
COL4A1	Collagen type IV alpha 1 chain
COL4A2	Collagen type IV alpha 2 chain
COL4A3	Collagen type IV alpha 3 chain
COL4A5	Collagen type IV alpha 5 chain
COL5A1	Collagen type V alpha 1 chain
COL5A2	Collagen type V alpha 2 chain
COL8A1	Collagen type VIII alpha 1 chain
COLEC11	Collectin subfamily member 11
CORO2A	Coronin 2A
COX11	COX11, cytochrome c oxidase copper chaperone
COX20	COX20, cytochrome c oxidase assembly factor
COX4I1	Cytochrome c oxidase subunit 4I1
CPA4	Carboxypeptidase A4
CPLX3	Complexin 3
CPNE8	Copine 8
CPSF2	Cleavage and polyadenylation specific factor 2
CR1L	Complement component 3b/4b receptor 1-like
CRAMP1	Cramped chromatin regulator homolog 1
CREB1	Camp responsive element binding protein 1
CREB3L1	Camp responsive element binding protein 3 like 1
CREBZF	CREB/ATF bzip transcription factor
CRHBP	Corticotropin releasing hormone binding protein
CRHR1	Corticotropin releasing hormone receptor 1
CRIPAK	Cysteine rich PAK1 inhibitor
CROCCP2	Ciliary rootlet coiled-coil, rootletin pseudogene 2
CRTC3	CREB regulated transcription coactivator 3
CRYBB2	Crystallin beta B2
CRYBG3	Crystallin beta-gamma domain containing 3
CRYZL1	Crystallin zeta like 1
CSDC2	Cold shock domain containing C2
CSNK1E	Casein kinase 1 epsilon
CSNK1G1	Casein kinase 1 gamma 1
CSPP1	Centrosome and spindle pole associated protein 1
CSTF3	Cleavage stimulation factor subunit 3
CTNNB1	Catenin beta 1

CTRC	Chymotrypsin C
CTSC	Cathepsin C
CTSK	Cathepsin K
CTSZ	Cathepsin Z
CUL4A	Cullin 4A
CWC22	CWC22 homolog, spliceosome-associated protein
CXCL2	C-X-C motif chemokine ligand 2
CXCR1	C-X-C motif chemokine receptor 1
CYBRD1	Cytochrome b reductase 1
CYP4F3	Cytochrome P450 family 4 subfamily F member 3
CYP4V2	Cytochrome P450 family 4 subfamily V member 2
CYR61	Cysteine rich angiogenic inducer 61
CYR61	Protein CYR61
D21S2088E	D21s2088e
DAVID	Database for Annotation, Visualization and Integrated Discovery
DBF4	DBF4 zinc finger
DCAF1	DDB1 and CUL4 associated factor 1
DCAF10	DDB1 and CUL4 associated factor 10
DCAF16	DDB1 and CUL4 associated factor 16
DCAF7	DDB1 and CUL4 associated factor 7
DCLRE1C	DNA cross-link repair 1C
DCUN1D1	Defective in cullin neddylation 1 domain containing 1
DCUN1D4	Defective in cullin neddylation 1 domain containing 4
DDIT4L	DNA damage inducible transcript 4 like
DDX10	DEAD-box helicase 10
DDX18	DEAD-box helicase 18
DDX42	DEAD-box helicase 42
DDX51	DEAD-box helicase 51
DDX52	DEAD-box helicase 52
DDX55	DEAD-box helicase 55
DDX58	DEXD/H-box helicase 58
DDX59	DEAD-box helicase 59
DDX6	DEAD-box helicase 6
DEAF1	DEAF1, transcription factor
DEFA4	Defensin alpha 4
DEGs	Common differentially expressed genes
DEGS2	Delta 4-desaturase, sphingolipid 2
DENND4A	DENN domain containing 4A
DENND4B	DENN domain containing 4B
DFNB59	Deafness, autosomal recessive 59
DGAT2	Diacylglycerol O-acyltransferase 2
DGKD	Diacylglycerol kinase delta
DGKE	Diacylglycerol kinase epsilon
DHFR2	Dihydrofolate reductase 2

DHRS2	Dehydrogenase/reductase 2
DHRS9	Dehydrogenase/reductase 9
DHX30	DEAH-box helicase 30
DIDO1	Death inducer-obliterator 1
DIS3L2	DIS3 like 3'-5' exoribonuclease 2
DKFZP586B0319	DKFZP586B0319 protein
DLG1	Discs large MAGUK scaffold protein 1
DLG4	Discs large MAGUK scaffold protein 4
DLGAP4	DLG associated protein 4
DMTN	Dematin actin binding protein
DMXL1	Dmx like 1
DNAH2	Dynein axonemal heavy chain 2
DNAJA4	Dnaj heat shock protein family (Hsp40) member A4
DNAJB4	Dnaj heat shock protein family (Hsp40) member B4
DNAJC10	Dnaj heat shock protein family (Hsp40) member C10
DNAJC2	Dnaj heat shock protein family (Hsp40) member C2
DNAJC21	Dnaj heat shock protein family (Hsp40) member C21
DNPH1	2'-deoxynucleoside 5'-phosphate N-hydrolase 1
DOCK4	Dedicator of cytokinesis 4
DOCK9	Dedicator of cytokinesis 9
DOPEY1	Dopey family member 1
DPCD	Deleted in primary ciliary dyskinesia homolog (mouse)
DPF1	Double PHD fingers 1
DPH5	Diphthamide biosynthesis 5
DPH6	Diphthamine biosynthesis 6
DPH7	Diphthamide biosynthesis 7
DPT	Dermatopontin
DROSHA	Drosha ribonuclease III
DSC2	Desmocollin 2
DSCAM	DS cell adhesion molecule
DUSP1	Dual specificity phosphatase 1
DUSP6	Dual specificity phosphatase 6
DYRK1B	Dual specificity tyrosine phosphorylation regulated kinase 1B
DYRK2	Dual specificity tyrosine phosphorylation regulated kinase 2
DYRK3	Dual specificity tyrosine phosphorylation regulated kinase 3
DZIP3	DAZ interacting zinc finger protein 3
E2F2	E2F transcription factor 2
EAF2	ELL associated factor 2
EBAG9	Estrogen receptor binding site associated, antigen, 9
EBF1	Early B-cell factor 1
EBP41	Protein 4.1
EDRF1	Erythroid differentiation regulatory factor 1
EEA1	Early endosome antigen 1

EFCAB7	EF-hand calcium binding domain 7
EFNA5	Ephrin A5
EGFL7	EGF like domain multiple 7
EGLN1	Egl-9 family hypoxia inducible factor 1
EGLN3	Egl-9 family hypoxia inducible factor 3
EGR1	Early growth response 1
EHBP1	EH domain binding protein 1
EHD4	EH domain containing 4
EHMT2	Euchromatic histone lysine methyltransferase 2
EIF1AX	Eukaryotic translation initiation factor 1A, X-linked
EIF2AK4	Eukaryotic translation initiation factor 2 alpha kinase 4
EIF2S3	Eukaryotic translation initiation factor 2 subunit gamma
EIF3A	Eukaryotic translation initiation factor 3 subunit A
EIF3C	Eukaryotic translation initiation factor 3 subunit C
EIF3F	Eukaryotic translation initiation factor 3 subunit F
EIF3J-AS1	EIF3J antisense RNA 1 (head to head)
EIF4G3	Eukaryotic translation initiation factor 4 gamma 3
EIF5B	Eukaryotic translation initiation factor 5B
ELF3	E74 like ETS transcription factor 3
ELK3	ELK3, ETS transcription factor
ELK4	ELK4, ETS transcription factor
ELL2	Elongation factor for RNA polymerase II 2
ELP2	Elongator acetyltransferase complex subunit 2
EMID1	EMI domain containing 1
EML6	Echinoderm microtubule associated protein like 6
ENOSF1	Enolase superfamily member 1
ENPP2	Ectonucleotide pyrophosphatase/phosphodiesterase 2
ENPP7	Ectonucleotide pyrophosphatase/phosphodiesterase 7
ENSA	Endosulfine alpha
ENTPD4	Ectonucleoside triphosphate diphosphohydrolase 4
ENY2	ENY2, transcription and export complex 2 subunit
EOGT	EGF domain specific O-linked N-acetylglucosamine transferase
EPB41	Erythrocyte membrane protein band 4.1
EPB41L4A-AS1	EPB41L4A antisense RNA 1
EPC1	Enhancer of polycomb homolog 1
EPHB2	EPH receptor B2
EPM2AIP1	EPM2A interacting protein 1
EPPK1	Epiplakin 1
ERCC6L2	ERCC excision repair 6 like 2
ERP27	Endoplasmic reticulum protein 27
ERVK13-1	Endogenous retrovirus group K13 member 1
ERVK3-1///ZNF8	Endogenous retrovirus group K3 member 1///zinc finger protein 8
ESF1	ESF1 nucleolar pre-rrna processing protein homolog
ESPN	Espin

EVX1	Even-skipped homeobox 1
EXOC1	Exocyst complex component 1
EXOG	Endo/exonuclease (5'-3'), endonuclease G-like
EZH2	Enhancer of zeste 2 polycomb repressive complex 2 subunit
F10	Coagulation factor X
F2RL1	F2R like trypsin receptor 1
FABP4	Fatty acid binding protein 4
FABP4	Fatty acid-binding protein
FAIM	Fas apoptotic inhibitory molecule
FAM122C	Family with sequence similarity 122C
FAM124A	Family with sequence similarity 124 member A
FAM133DP///FAM133B	Family with sequence similarity 133, member A pseudogene///family with sequence similarity 133 member B
FAM134B	Family with sequence similarity 134 member B
FAM13A	Family with sequence similarity 13 member A
FAM13A-AS1	FAM13A antisense RNA 1
FAM156B///FAM156A	Family with sequence similarity 156 member B///family with sequence similarity 156 member A
FAM171A1	Family with sequence similarity 171 member A1
FAM172A	Family with sequence similarity 172 member A
FAM179B	Family with sequence similarity 179 member B
FAM193B	Family with sequence similarity 193 member B
FAM199X	Family with sequence similarity 199, X-linked
FAM208B	Family with sequence similarity 208 member B
FAM208B	Family with sequence similarity 208 member B
FAM210B	Family with sequence similarity 210 member B
FAM216A	Family with sequence similarity 216 member A
FAM226B///FAM226A	Family with sequence similarity 226 member B (non-protein coding)///family with sequence similarity 226 member A (non-protein coding)
FAM231D///LOC388692	Family with sequence similarity 231 member D///uncharacterized LOC388692
FAM30A	Family with sequence similarity 30, member A
FAM43A	Family with sequence similarity 43 member A
FAM57B	Family with sequence similarity 57 member B
FAM63B	Family with sequence similarity 63 member B
FAM65C	Family with sequence similarity 65 member C
FAM76B	Family with sequence similarity 76 member B
FAM78B	Family with sequence similarity 78 member B
FANCA	Fanconi anemia complementation group A
FANCD2	Fanconi anemia complementation group D2
FANCI	Fanconi anemia complementation group I
FANCL	Fanconi anemia complementation group L
FANCM	Fanconi anemia complementation group M
FARP1	FERM, ARH/rhogef and pleckstrin domain protein 1

FAS	Fas cell surface death receptor
FASN	Fatty acid synthase
FASTKD1	FAST kinase domains 1
FASTKD2	FAST kinase domains 2
FBRSL1	Fibrosin like 1
FBXL17	F-box and leucine rich repeat protein 17
FBXL6	F-box and leucine rich repeat protein 6
FBXO22	F-box protein 22
FBXO3	F-box protein 3
FBXO7	F-box protein 7
FBXO9	F-box protein 9
FCER1G	Fc fragment of ige receptor Ig
FCGBP	Fc fragment of igg binding protein
FCRL1	Fc receptor like 1
FCRL2	Fc receptor like 2
FCRL5	Fc receptor like 5
FEM1B	Fem-1 homolog B
FGF1	Fibroblast growth factor 1
FGF13	Fibroblast growth factor 13
FGFR1OP	FGFR1 oncogene partner
FGFR1OP2	FGFR1 oncogene partner 2
FH	Fumarate hydratase
FHL1	Four and a half LIM domains 1
FHL2	Four and a half LIM domains 2
FIGNL1	Fidgetin like 1
FITM2	Fat storage inducing transmembrane protein 2
FKBP8	FK506 binding protein 8
FKRP	Fukutin related protein
FLCN	Folliculin
FLOT1	Flotillin 1
FLVCR1	Feline leukemia virus subgroup C cellular receptor 1
FMNL3	Formin like 3
FNBP4	Formin binding protein 4
FNDC4	Fibronectin type III domain containing 4
FOSB	Fosb proto-oncogene, AP-1 transcription factor subunit
FOXN3	Forkhead box N3
FOXO1	Forkhead box O1
FOXO3B///FOXO3	Forkhead box O3B pseudogene///forkhead box O3
FOXP1	Forkhead box P1
FOXP2	Forkhead box P2
FPGT-TNNI3K///TNNI3K	FPGT-TNNI3K readthrough///TNNI3 interacting kinase
FPR2	Formyl peptide receptor 2

FRG1JP	FSHD region gene 1 family member J, pseudogene
FRMD4A	FERM domain containing 4A
FRRS1L	Ferric chelate reductase 1 like
FUBP1	Far upstream element binding protein 1
FUBP3	Far upstream element binding protein 3
FUNDC1	FUN14 domain containing 1
FURIN	Furin, paired basic amino acid cleaving enzyme
FUS	FUS RNA binding protein
FUT3	Fucosyltransferase 3 (Lewis blood group)
FXR1	FMR1 autosomal homolog 1
FZD2	Frizzled class receptor 2
GABBR1	Gamma-aminobutyric acid type B receptor subunit 1
GABPB1-AS1	GABPB1 antisense RNA 1
GABRB3	Gamma-aminobutyric acid type A receptor beta3 subunit
GADD45A	Growth arrest and DNA damage inducible alpha
GAK	Cyclin G associated kinase
GALK2	Galactokinase 2
GALNT15	Polypeptide N-acetylgalactosaminyltransferase 15
GALNT8///KCNA6	Polypeptide N-acetylgalactosaminyltransferase 8///potassium voltage-gated channel subfamily A member 6
GALNT9	Polypeptide N-acetylgalactosaminyltransferase 9
GALR3	Galanin receptor 3
GATA1	GATA binding protein 1
GATA3	GATA binding protein 3
GATAD1	GATA zinc finger domain containing 1
GATM	Glycine amidinotransferase
GBGT1	Globoside alpha-1,3-N-acetylgalactosaminyltransferase 1
GBP3	Guanylate binding protein 3
GCAT	Glycine C-acetyltransferase
GCFC2	GC-rich sequence DNA-binding factor 2
GCNT2	Glucosaminyl (N-acetyl) transferase 2, I-branching enzyme (I blood group)
GDI2	GDP dissociation inhibitor 2
GDPD1	Glycerophosphodiester phosphodiesterase domain containing 1
GEO	Gene expression omnibus
GFM1	G elongation factor mitochondrial 1
GFM2	G elongation factor mitochondrial 2
GGA2	Golgi associated, gamma adaptin ear containing, ARF binding protein 2
GIMAP1	Gtpase, IMAP family member 1
GIN1	Gypsy retrotransposon integrase 1
GIT1	GIT arfgap 1
GJC2	Gap junction protein gamma 2
GK	Glycerol kinase
GK5	Glycerol kinase 5 (putative)

GKAP1	G kinase anchoring protein 1
GLDN	Gliomedin
GLG1	Golgi glycoprotein 1
GLMP	Glycosylated lysosomal membrane protein
GLS	Glutaminase
GLUL	Glutamate-ammonia ligase
GLUL	Glutamate-ammonia ligase
GLYR1///SEPT6	Glyoxylate reductase 1 homolog///septin 6
GMNN	Geminin, DNA replication inhibitor
GNAI1	G protein subunit alpha i1
GNB5	G protein subunit beta 5
GNL2	G protein nucleolar 2
GNRH2	Gonadotropin releasing hormone 2
GO	Gene ontology
GOLGA4	Golgin A4
GOLGA8A	Golgin A8 family member A
GOLT1B	Golgi transport 1B
GORAB	Golgin, RAB6 interacting
GPALPP1	GPALPP motifs containing 1
GPAM	Glycerol-3-phosphate acyltransferase 1
GPAM	Glycerol-3-phosphate acyltransferase, mitochondrial
GPATCH2	G-patch domain containing 2
GPR20	G protein-coupled receptor 20
GPR75-ASB3///ASB3///GPR75	GPR75-ASB3 readthrough///ankyrin repeat and SOCS box containing 3///G protein-coupled receptor 75
GPR78///CPZ	G protein-coupled receptor 78///carboxypeptidase Z
GPR89A///GPR89B	G protein-coupled receptor 89A///G protein-coupled receptor 89B
GPRASP1	G protein-coupled receptor associated sorting protein 1
GPRIN3	GPRIN family member 3
GPX3	Glutathione peroxidase 3
GPX7	Glutathione peroxidase 7
GRAMD3	GRAM domain containing 3
GRAP	GRB2-related adaptor protein
GRSF1	G-rich RNA sequence binding factor 1
GSAP	Gamma-secretase activating protein
GSDMB	Gasdermin B
GSN	Gelsolin
GSPT1	G1 to S phase transition 1
GTF2A2	General transcription factor IIA subunit 2
GTF2H2B///GTF2H2	General transcription factor IIH subunit 2B (pseudogene)///general transcription factor IIH subunit 2
GTPBP4	GTP binding protein 4

GUSBP3///SMA5///SMA4	Glucuronidase, beta pseudogene 3///glucuronidase beta pseudo-gene///glucuronidase beta pseudogene
GUSBP9///GUSBP3	Glucuronidase, beta pseudogene 9///glucuronidase, beta pseudogene 3
GVINP1	Gtpase, very large interferon inducible pseudogene 1
GXYLT1	Glucoside xylosyltransferase 1
GYPA	Glycophorin A (MNS blood group)
GYPB	Glycophorin B (MNS blood group)
GYPC	Glycophorin C (Gerbich blood group)
GYPC	Glycophorin-C
H2AFV	H2A histone family member V
H2AFX	H2A histone family member X
HAB1	B1 for mucin
HACE1	HECT domain and ankyrin repeat containing E3 ubiquitin protein ligase 1
HADH	Hydroxyacyl-coa dehydrogenase
HAUS1	HAUS augmin like complex subunit 1
HAUS2	HAUS augmin like complex subunit 2
HAUS3	HAUS augmin like complex subunit 3
HAUS6	HAUS augmin like complex subunit 6
HBA2///HBA1	Hemoglobin subunit alpha 2///hemoglobin subunit alpha 1
HBBP1	Hemoglobin subunit beta pseudogene 1
HBE1	Hemoglobin subunit epsilon 1
HBG2///HBG1	Hemoglobin subunit gamma 2///hemoglobin subunit gamma 1
HBM	Hemoglobin subunit mu
HBQ1	Hemoglobin subunit theta 1
HBS1L	HBS1 like translational gtpase
HBZ	Hemoglobin subunit zeta
HCG11	HLA complex group 11 (non-protein coding)
HCG18	HLA complex group 18 (non-protein coding)
HCG22	HLA complex group 22
HEATR1	HEAT repeat containing 1
HELLS	Helicase, lymphoid-specific
HELZ2	Helicase with zinc finger 2
HEMK1	Hemk methyltransferase family member 1
HERC2P7	Hect domain and RLD 2 pseudogene 7
HERC2P9///HERC2P2	Hect domain and RLD 2 pseudogene 9///hect domain and RLD 2 pseudogene 2
HERC4	HECT and RLD domain containing E3 ubiquitin protein ligase 4
HEXA	Hexosaminidase subunit alpha
HEY1	Hes related family bhlh transcription factor with YRPW motif 1
HEY1	Hes related family bhlh transcription factor with YRPW motif 1
HINT1	Histidine triad nucleotide binding protein 1
HINT3	Histidine triad nucleotide binding protein 3
HIPK1	Homeodomain interacting protein kinase 1
HIPK2	Homeodomain interacting protein kinase 2

HIST1H1D	Histone cluster 1, H1d
HKR1	HKR1, GLI-Kruppel zinc finger family member
HLA-DPA1	Major histocompatibility complex, class II, DP alpha 1
HLA-DRB4	Major histocompatibility complex, class II, DR beta 4
HLTF	Helicase like transcription factor
HLX	H2.0 like homeobox
HMBOX1	Homeobox containing 1
HMBS	Hydroxymethylbilane synthase
HMGB1	High mobility group box 1
HMGN3	High mobility group nucleosomal binding domain 3
HNMT	Histamine N-methyltransferase
HNRNPA2B1	Heterogeneous nuclear ribonucleoprotein A2/B1
HNRNPA3	Heterogeneous nuclear ribonucleoprotein A3
HNRNPC	Heterogeneous nuclear ribonucleoprotein C (C1/C2)
HNRNPDL	Heterogeneous nuclear ribonucleoprotein D like
HNRNPM	Heterogeneous nuclear ribonucleoprotein M
HNRNPU	Heterogeneous nuclear ribonucleoprotein U
HOOK1	Hook microtubule tethering protein 1
HOOK2	Hook microtubule tethering protein 2
HOOK3	Hook microtubule tethering protein 3
HOXB-AS1	HOXB cluster antisense RNA 1
HOXC10	Homeobox C10
HOXD9	Homeobox D9
HP1BP3	Heterochromatin protein 1 binding protein 3
HR	Hair growth associated
HS2ST1	Heparan sulfate 2-O-sulfotransferase 1
HSD17B14	Hydroxysteroid 17-beta dehydrogenase 14
HSD17B7	Hydroxysteroid 17-beta dehydrogenase 7
HSP90AA1	Heat shock protein 90 alpha family class A member 1
HSP90AB1	Heat shock protein 90 alpha family class B member 1
HSPA4	Heat shock protein family A (Hsp70) member 4
HSPB1	Heat shock protein family B (small) member 1
HSPB11	Heat shock protein family B (small) member 11
HSPD1	Heat shock protein family D (Hsp60) member 1
ICAM2	Intercellular adhesion molecule 2
ICE1	Interactor of little elongation complex ELL subunit 1
IDH1	Isocitrate dehydrogenase (NADP(+)) 1, cytosolic
IFI27	Interferon alpha inducible protein 27
IFI44	Interferon induced protein 44
IFNA21	Interferon alpha 21
IFT80	Intraflagellar transport 80
IGF2BP2	Insulin like growth factor 2 mrna binding protein 2
IGFALS	Insulin like growth factor binding protein acid labile subunit
IGFBP2	Insulin like growth factor binding protein 2

IGFBP3	Insulin like growth factor binding protein 3
IGFBP5	Insulin like growth factor binding protein 5
IGFBP7	Insulin like growth factor binding protein 7
IGHM	Immunoglobulin heavy constant mu
IGHM///IGHG1///IGHA1	Immunoglobulin heavy constant mu///immunoglobulin heavy constant gamma 1 (G1m marker)///immunoglobulin heavy constant alpha 1
IKZF2	IKAROS family zinc finger 2
IL11RA	Interleukin 11 receptor subunit alpha
IL13RA1	Interleukin 13 receptor subunit alpha 1
IL13RA1	Interleukin 13 receptor subunit alpha 1
IL1R2	Interleukin 1 receptor type 2
IL1RN	Interleukin 1 receptor antagonist
IL22	Interleukin 22
IL23A	Interleukin 23 subunit alpha
IL27RA	Interleukin 27 receptor subunit alpha
IL4R	Interleukin 4 receptor
IL6ST	Interleukin 6 signal transducer
ILDR1	Immunoglobulin like domain containing receptor 1
ILF3	Interleukin enhancer binding factor 3
IMMP1L	Inner mitochondrial membrane peptidase subunit 1
IMPACT	Impact RWD domain protein
ING5	Inhibitor of growth family member 5
INMT	Indolethylamine N-methyltransferase
INO80D	INO80 complex subunit D
INPP4A	Inositol polyphosphate-4-phosphatase type I A
INPP5B	Inositol polyphosphate-5-phosphatase B
INPP5F	Inositol polyphosphate-5-phosphatase F
INS-IGF2///IGF2	INS-IGF2 readthrough///insulin like growth factor 2
INTS6L	Integrator complex subunit 6 like
INVS///WSB1	Inversin///WD repeat and SOCS box containing 1
IPCEF1	Interaction protein for cytohesin exchange factors 1
IPO11-LRRC70///IPO11	IPO11-LRRC70 readthrough///importin 11
IPO5	Importin 5
IPO7	Importin 7
IQCE	IQ motif containing E
IRAK3	Interleukin 1 receptor associated kinase 3
IRF2BP2	Interferon regulatory factor 2 binding protein 2
IRF5	Interferon regulatory factor 5
IRF6	Interferon regulatory factor 6
ITGA3	Integrin subunit alpha 3
ITGAE	Integrin subunit alpha E
ITGB1	Integrin subunit beta 1
ITGB2-AS1	ITGB2 antisense RNA 1
ITGB3BP	Integrin subunit beta 3 binding protein

ITLN1	Intelectin 1
ITPR3	Inositol 1,4,5-trisphosphate receptor type 3
JAG1	Jagged 1
JAK2	Janus kinase 2
JAZF1	JAZF zinc finger 1
JMY	Junction mediating and regulatory protein, p53 cofactor
JPH2	Junctophilin 2
JPX	JPX transcript, XIST activator (non-protein coding)
JUN	Jun proto-oncogene, AP-1 transcription factor subunit
KAT6B	Lysine acetyltransferase 6B
KAZN	Kazrin, periplakin interacting protein
KBTBD12	Kelch repeat and BTB domain containing 12
KCNC4	Potassium voltage-gated channel subfamily C member 4
KCNIP2-AS1	KCNIP2 antisense RNA 1
KCNJ15	Potassium voltage-gated channel subfamily J member 15
KCNJ2	Potassium voltage-gated channel subfamily J member 2
KCNJ4	Potassium voltage-gated channel subfamily J member 4
KCNN2	Potassium calcium-activated channel subfamily N member 2
KCNQ3	Potassium voltage-gated channel subfamily Q member 3
KCTD5	Potassium channel tetramerization domain containing 5
KEGG	Kyoto Encyclopedia of Gene and Genome
KHSRP	KH-type splicing regulatory protein
KIAA1109	Kiaa1109
KIAA1147	Kiaa1147
KIAA1324	Kiaa1324
KIF21A	Kinesin family member 21A
KIFC2	Kinesin family member C2
KIFC3	Kinesin family member C3
KIZ	Kizuna centrosomal protein
KLC1	Kinesin light chain 1
KLC3	Kinesin light chain 3
KLF1	Kruppel like factor 1
KLF11	Kruppel like factor 11
KLF12	Kruppel like factor 12
KLHDC1	Kelch domain containing 1
KLHDC10	Kelch domain containing 10
KLHDC4	Kelch domain containing 4
KLHDC8A	Kelch domain containing 8A
KLHL14	Kelch like family member 14
KLHL3	Kelch like family member 3
KLHL34	Kelch like family member 34
KLHL5	Kelch like family member 5
KLK14	Kallikrein related peptidase 14
KMT5B	Lysine methyltransferase 5B
KPNA2	Karyopherin subunit alpha 2

KPNA4	Karyopherin subunit alpha 4
KPNA5	Karyopherin subunit alpha 5
KRBOX4	KRAB box domain containing 4
KRI1	KRI1 homolog
KRIT1	KRIT1, ankyrin repeat containing
KRT1	Keratin 1
KRT10	Keratin 10
KRT23	Keratin 23
KRT33B	Keratin 33B
KTN1	Kinectin 1
L3MBTL1	L(3)mbt-like 1 (Drosophila)
LACTB2	Lactamase beta 2
LAMB1	Laminin subunit beta 1
LAMP1	Lysosomal associated membrane protein 1
LAMP1	Lysosomal associated membrane protein 1
LARP1	La ribonucleoprotein domain family member 1
LARP6	La ribonucleoprotein domain family member 6
LARP7	La ribonucleoprotein domain family member 7
LATS1	Large tumor suppressor kinase 1
LEF1	Lymphoid enhancer binding factor 1
LEF1-AS1	LEF1 antisense RNA 1
LHX4-AS1	LHX4 antisense RNA 1
LIG4	DNA ligase 4
LIMA1	LIM domain and actin binding 1
LIMD1	LIM domains containing 1
LIN7A	Lin-7 homolog A, crumbs cell polarity complex component
LIN7C	Lin-7 homolog C, crumbs cell polarity complex component
LINC-PINT	Long intergenic non-protein coding RNA, p53 induced transcript
LINC00342	Long intergenic non-protein coding RNA 342
LINC00658	Long intergenic non-protein coding RNA 658
LINC00667	Long intergenic non-protein coding RNA 667
LINC00894	Long intergenic non-protein coding RNA 894
LINC00908	Long intergenic non-protein coding RNA 908
LINC00926	Long intergenic non-protein coding RNA 926
LINC00938	Long intergenic non-protein coding RNA 938
LINC00969	Long intergenic non-protein coding RNA 969
LINC00982	Long intergenic non-protein coding RNA 982
LINC01118	Long intergenic non-protein coding RNA 1118
LINC01133	Long intergenic non-protein coding RNA 1133
LINC01159	Long intergenic non-protein coding RNA 1159
LINC01215	Long intergenic non-protein coding RNA 1215
LINC01550	Long intergenic non-protein coding RNA 1550
LINC01620	Long intergenic non-protein coding RNA 1620
LINGO1	Leucine rich repeat and Ig domain containing 1

LLGL1	LLGL1, scribble cell polarity complex component
LLPH	LLP homolog, long-term synaptic facilitation
LMLN	Leishmanolysin like peptidase
LNPEP	Leucyl and cystinyl aminopeptidase
LNPK	Lunapark, ER junction formation factor
LOC100128108	Putative ubiquitin-conjugating enzyme E2Q2-like protein
LOC100128325	Uncharacterized LOC100128325
LOC100129129	Uncharacterized LOC100129129
LOC100131262	Uncharacterized LOC100131262
LOC100131541	Uncharacterized LOC100131541
LOC100132731///KIAA1257	Uncharacterized LOC100132731///KIAA1257
LOC100190986	Uncharacterized LOC100190986
LOC100287852///FAM136A	Protein FAM136A pseudogene///family with sequence similarity 136 member A
LOC100294033///TCAF1	Protein FAM115A-like///TRPM8 channel associated factor 1
LOC100499194	Uncharacterized LOC100499194
LOC100505938	Uncharacterized LOC100505938
LOC100506282	Uncharacterized LOC100506282
LOC100506538///NDUFAF6	Uncharacterized LOC100506538///NADH:ubiquinone oxidoreductase complex assembly factor 6
LOC100507281	Uncharacterized LOC100507281
LOC100507291	Uncharacterized LOC100507291
LOC100507403	Uncharacterized LOC100507403
LOC100507424///ITFG2	Uncharacterized LOC100507424///integrin alpha FG-GAP repeat containing 2
LOC100507431	Uncharacterized LOC100507431
LOC100509445///LOC728715///OVOS///OVOS2	Uncharacterized LOC100509445///ovostatin homolog 2///ovostatin///ovostatin 2
LOC100996740	Uncharacterized LOC100996740
LOC101060521///POLR3E	DNA-directed RNA polymerase III subunit RPC5///RNA polymerase III subunit E
LOC101060604///NPIPA5///SMG1P3///NPIPB5///SMG1P1///LOC613037///NPIPB4///SLC7A5P1///NPIPB3	Putative L-type amino acid transporter 1-like protein IMAA///nuclear pore complex interacting protein family member A5///SMG1P3, nonsense mediated mrna decay associated PI3K related kinase pseudogene 3///nuclear pore complex interacting protein family mem
LOC101060835///HLA-DQB1	HLA class II histocompatibility antigen, DQ beta 1 chain-like///major histocompatibility complex, class II, DQ beta 1
LOC101926967	Uncharacterized LOC101926967
LOC101926975	Uncharacterized LOC101926975
LOC101927069	Uncharacterized LOC101927069
LOC101927137///KIAA1456	Uncharacterized LOC101927137///KIAA1456

LOC101927608	Uncharacterized LOC101927608
LOC101928000	Uncharacterized LOC101928000
LOC101928054	Uncharacterized LOC101928054
LOC101928524///PRPF18	Uncharacterized LOC101928524///pre-mrna processing factor 18
LOC101928605///OR2A1-AS1///OR2A9P///OR2A20P	Uncharacterized LOC101928605///OR2A1 antisense RNA 1///olfactory receptor family 2 subfamily A member 9 pseudogene///olfactory receptor family 2 subfamily A member 20 pseudogene
LOC101928615///FNDC3B	Uncharacterized LOC101928615///fibronectin type III domain containing 3B
LOC101928623///HARS	Uncharacterized LOC101928623///histidyl-trna synthetase
LOC101928623///LOC401320	Uncharacterized LOC101928623///uncharacterized LOC401320
LOC101929047///HERC2P10///HERC2	Uncharacterized LOC101929047///hect domain and RLD 2 pseudogene 10///HECT and RLD domain containing E3 ubiquitin protein ligase 2
LOC101929165	Uncharacterized LOC101929165
LOC101929734	Uncharacterized LOC101929734
LOC101929787	Uncharacterized LOC101929787
LOC101930112///SPG7	Uncharacterized LOC101930112///SPG7, paraplegin matrix AAA peptidase subunit
LOC101930349///LOC101930344///CGNL1	Uncharacterized LOC101930349///uncharacterized LOC101930344///cingulin like 1
LOC101930363///LOC101928349///LOC100507387///FAM153C///FAM153A///FAM153B	Uncharacterized LOC101930363///uncharacterized LOC101928349///uncharacterized LOC100507387///family with sequence similarity 153, member C///family with sequence similarity 153 member A///family with sequence similarity 153 member B
LOC101930404///SNORD116-28///SNORD115-26///SNORD115-13///SNORD115-7///SNORD116-22///SNORD116-4///PWARSN///SNORD107///IPW	Uncharacterized LOC101930404///small nucleolar RNA, C/D box 116-28///small nucleolar RNA, C/D box 115-26///small nucleolar RNA, C/D box 115-13///small nucleolar RNA, C/D box 115-7///small nucleolar RNA, C/D box 116-22///small nucleolar RNA, C/D box 116-4/
LOC101930416///LOC101929792///LOC100996724///PDE4DIP	Myomegalin-like///uncharacterized LOC101929792///phosphodiesterase 4D interacting protein-like///phosphodiesterase 4D interacting protein
LOC101930489///MIR4435-2HG///LINC00152	Uncharacterized LOC101930489///MIR4435-2 host gene///long intergenic non-protein coding RNA 152
LOC101930583///GOLGA8B///GOLGA8A	Uncharacterized LOC101930583///golgin A8 family member B///golgin A8 family member A

LOC102606465	Uncharacterized LOC102606465
LOC102723526	Uncharacterized LOC102723526
LOC102723694	Uncharacterized LOC102723694
LOC102723709///LOC102723678///LOC101928102	Uncharacterized LOC102723709///uncharacterized LOC102723678///putative uncharacterized protein LOC401522-like
LOC102723897///MIR6859-1///MIR6859-2///LOC101930154///LOC100288778///WASH1///WASH7P///WASH2P///WASH3P	WAS protein family homolog 2-like///microrna 6859-1///microrna 6859-2///WAS protein family homolog 6-like///WAS protein family homolog 1 pseudogene///WAS protein family homolog 1///WAS protein family homolog 7 pseudogene///WAS protein family homolog 2 pse
LOC102724093///GOLGA6L4///GOLGA6L9///GOLGA6L5P	Golgin subfamily A member 6-like protein 4///golgin A6 family-like 4///golgin A6 family-like 9///golgin A6 family-like 5, pseudogene
LOC102724156	Uncharacterized LOC102724156
LOC102724200///TRAPPC10	Trafficking protein particle complex subunit 10-like///trafficking protein particle complex 10
LOC102724782	Uncharacterized LOC102724782
LOC102724814	Uncharacterized LOC102724814
LOC102724851	Uncharacterized LOC102724851
LOC102724951///LOC389831	Uncharacterized LOC102724951///uncharacterized LOC389831
LOC102724993///LOC101930075///NPIPA8///NPIPA7///NPIPA5///NPIPA2///NPIPA3///PKD1P1///NPIPA1	Nuclear pore complex-interacting protein family member A7-like///polycystin-1-like///nuclear pore complex interacting protein family member A8///nuclear pore complex interacting protein family member A7///nuclear pore complex interacting protein family me
LOC105369595	Uncharacterized LOC105369595
LOC105369662	Uncharacterized LOC105369662
LOC105373738	Uncharacterized LOC105373738
LOC158402	Uncharacterized LOC158402
LOC171391	Uncharacterized LOC171391
LOC202025	Uncharacterized LOC202025
LOC202181	SUMO interacting motifs containing 1 pseudogene
LOC254896///TNFRSF10C	Uncharacterized LOC254896///TNF receptor superfamily member 10c
LOC283177	Uncharacterized LOC283177
LOC283335	Uncharacterized LOC283335
LOC283357	Uncharacterized LOC283357
LOC283588	Uncharacterized LOC283588
LOC283788	FSHD region gene 1 pseudogene
LOC285097	Uncharacterized FLJ38379
LOC339988	Uncharacterized LOC339988

LOC374443	C-type lectin domain family 2 member D pseudogene
LOC389765	Kinesin family member 27 pseudogene
LOC643072	Uncharacterized LOC643072
LOC728903///GLIDR	Uncharacterized LOC728903///glioblastoma down-regulated RNA
LOC730268///ANAPC1	Anaphase-promoting complex subunit 1-like///anaphase promoting complex subunit 1
LPIN1	Lipin 1
LPL	Lipoprotein lipase
LRCH3	Leucine rich repeats and calponin homology domain containing 3
LRCH4	Leucine rich repeats and calponin homology domain containing 4
LRFN2	Leucine rich repeat and fibronectin type III domain containing 2
LRIG2	Leucine rich repeats and immunoglobulin like domains 2
LRRC37B	Leucine rich repeat containing 37B
LRRC40	Leucine rich repeat containing 40
LRRN3	Leucine rich repeat neuronal 3
LRRN4	Leucine rich repeat neuronal 3
LSG1	Large 60S subunit nuclear export gtpase 1
LSM8	LSM8 homolog, U6 small nuclear RNA associated
LTBR	Lymphotoxin beta receptor
LUC7L	LUC7 like
LUC7L3	LUC7 like 3 pre-mrna splicing factor
LUC7L3	Luc7-like protein 3
LYRM7	LYR motif containing 7
LZTFL1	Leucine zipper transcription factor like 1
MACF1	Microtubule-actin crosslinking factor 1
MAFK	MAF bzip transcription factor K
MALT1	MALT1 paracaspase
MAN1C1	Mannosidase alpha class 1C member 1
MAN2A2	Mannosidase alpha class 2A member 2
MANSC1	MANSC domain containing 1
MAP1LC3A	Microtubule associated protein 1 light chain 3 alpha
MAP3K2	Mitogen-activated protein kinase kinase kinase 2
MAP3K4	Mitogen-activated protein kinase kinase kinase 4
MAP3K7CL	MAP3K7 C-terminal like
MAP3K8	Mitogen-activated protein kinase kinase kinase 8
MAP4K3	Mitogen-activated protein kinase kinase kinase kinase 3
MAP4K5	Mitogen-activated protein kinase kinase kinase kinase 5
MAP4K5	Mitogen-activated protein kinase kinase kinase kinase 5
MAP9	Microtubule associated protein 9
MAPK8	Mitogen-activated protein kinase 8
MAPKAPK5	Mitogen-activated protein kinase-activated protein kinase 5
MAPKAPK5-AS1	MAPKAPK5 antisense RNA 1
MAPT	Microtubule associated protein tau

MASTL	Microtubule associated serine/threonine kinase like
MAX	MYC associated factor X
MBD4	Methyl-cpg binding domain 4, DNA glycosylase
MBD5	Methyl-cpg binding domain protein 5
MBLAC2	Metallo-beta-lactamase domain containing 2
MBNL2	Muscleblind like splicing regulator 2
MBOAT2	Membrane bound O-acyltransferase domain containing 2
MBOAT7	Membrane bound O-acyltransferase domain containing 7
MBTPS2	Membrane bound transcription factor peptidase, site 2
MCM8	Minichromosome maintenance 8 homologous recombination repair factor
MCOLN2	Mucolipin 2
MCTS1	MCTS1, re-initiation and release factor
MDC1	Mediator of DNA damage checkpoint 1
MDFIC	Myod family inhibitor domain containing
MDM4	MDM4, p53 regulator
MDN1	Midasin AAA atpase 1
MED19	Mediator complex subunit 19
MED25	Mediator complex subunit 25
MED28	Mediator complex subunit 28
MED6	Mediator complex subunit 6
MED7	Mediator complex subunit 7
MEF2A	Myocyte enhancer factor 2A
MEG3	Maternally expressed 3 (non-protein coding)
MEGF6	Multiple EGF like domains 6
METAP2	Methionyl aminopeptidase 2
METTL10	Methyltransferase like 10
METTL14	Methyltransferase like 14
METTL17	Methyltransferase like 17
METTL21A	Methyltransferase like 21A
METTL3	Methyltransferase like 3
MF	Molecular function
MFNG	MFNG O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase
MFSD12	Major facilitator superfamily domain containing 12
MGA	MGA, MAX dimerization protein
MGAM	Maltase-glucoamylase
MGC12488	Uncharacterized protein MGC12488
MGC24103	Uncharacterized MGC24103
MIA3	MIA family member 3, ER export factor
MICALL1	MICAL like 1
MICU3	Mitochondrial calcium uptake family member 3
MIER3	MIER family member 3
MIGA1	Mitoguardin 1
MIOS	Meiosis regulator for oocyte development

MIR124-1///LINC00599	Microrna 124-1///long intergenic non-protein coding RNA 599
MIR155///MIR155HG	Microrna 155///MIR155 host gene
MIR21///VMP1	Microrna 21///vacuole membrane protein 1
MIR29C///MIR29B2	Microrna 29c///microrna 29b-2
MIR3682	Microrna 3682
MIR4680///PDCD4	Microrna 4680///programmed cell death 4 (neoplastic transformation inhibitor)
MIR4746///UBXN6	Microrna 4746///UBX domain protein 6
MIR612///NEAT1	Microrna 612///nuclear paraspeckle assembly transcript 1 (non-protein coding)
MIR6716///PHLDB1	Microrna 6716///pleckstrin homology like domain family B member 1
MIR6741///PYCR2	Microrna 6741///pyrroline-5-carboxylate reductase family member 2
MIR6785///TMEM94	Microrna 6785///transmembrane protein 94
MIR6845///NRBP2	Microrna 6845///nuclear receptor binding protein 2
MIR6884///MED24	Microrna 6884///mediator complex subunit 24
MIS18BP1	MIS18 binding protein 1
MISP	Mitotic spindle positioning
MKL2	MKL1/myocardin like 2
MKLN1	Muskelin 1
MLLT3	MLLT3, super elongation complex subunit
MLXIPL	MLX interacting protein like
MME	Membrane metallo-endopeptidase
MME	Membrane metalloendopeptidase
MME	Neprilysin
MMP25	Matrix metallopeptidase 25
MMP26	Matrix metallopeptidase 26
MMP9	Matrix metallopeptidase 9
MOAP1	Modulator of apoptosis 1
MON2	MON2 homolog, regulator of endosome-to-Golgi trafficking
MORN1	MORN repeat containing 1
MOSPD1	Motile sperm domain containing 1
MPHOSPH10	M-phase phosphoprotein 10
MPHOSPH9	M-phase phosphoprotein 9
MPO	Myeloperoxidase
MPZL1	Myelin protein zero like 1
MR1	Major histocompatibility complex, class I-related
MRC2	Mannose receptor C type 2
MREG	Melanoregulin
MRGPRG-AS1	MRGPRG antisense RNA 1

MRI1	Methylthioribose-1-phosphate isomerase 1
MRPL42	Mitochondrial ribosomal protein L42
MRPL46	Mitochondrial ribosomal protein L46
MRPL50	Mitochondrial ribosomal protein L50
MRPS14	Mitochondrial ribosomal protein S14
MRPS22	Mitochondrial ribosomal protein S22
MRPS25	Mitochondrial ribosomal protein S25
MRS2	MRS2, magnesium transporter
MRVI1	Murine retrovirus integration site 1 homolog
MS4A1	Membrane spanning 4-domains A1
MS4A14	Membrane spanning 4-domains A14
MSANTD2	Myb/SANT DNA binding domain containing 2
MSH5-SAPCD1///SAPCD1	MSH5-SAPCD1 readthrough (NMD candidate)///suppressor APC domain containing 1
MSI2	Musashi RNA binding protein 2
MSMO1	Methylsterol monooxygenase 1
MSS51	MSS51 mitochondrial translational activator
MTERF2	Mitochondrial transcription termination factor 2
MTERF3	Mitochondrial transcription termination factor 3
MTHFD1	Methylenetetrahydrofolate dehydrogenase, cyclohydrolase and formyltetrahydrofolate synthetase 1
MTHFR	Methylenetetrahydrofolate reductase (NAD(P)H)
MTIF2	Mitochondrial translational initiation factor 2
MTO1	Mitochondrial trna translation optimization 1
MTRF1	Mitochondrial translational release factor 1
MTX2	Metaxin 2
MTX3	Metaxin 3
MUC3	Intestinal mucin-like
MUC3A	Mucin 3A, cell surface associated
MUC4	Mucin 4, cell surface associated
MUC8	Mucin 8
MXD1	MAX dimerization protein 1
MYBL1	MYB proto-oncogene like 1
MYBL2	MYB proto-oncogene like 2
MYBPC1	Myosin binding protein C, slow type
MYH11	Myosin heavy chain 11
MYH7B	Myosin heavy chain 7B
MYL2	Myosin light chain 2
MYL4	Myosin light chain 4
MYO15B	Myosin XVB
MYO5A	Myosin VA
MYO9A	Myosin IXA
MYOD1	Myogenic differentiation 1
MYSM1	Myb like, SWIRM and MPN domains 1

MZT2B	Mitotic spindle organizing protein 2B
N4BP2	NEDD4 binding protein 2
N4BP2L2	NEDD4 binding protein 2 like 2
NAA16	N(alpha)-acetyltransferase 16, nata auxiliary subunit
NAA25	N(alpha)-acetyltransferase 25, natb auxiliary subunit
NAA40	N(alpha)-acetyltransferase 40, natd catalytic subunit
NADK2	NAD kinase 2, mitochondrial
NADSYN1	NAD synthetase 1
NAIP	NLR family apoptosis inhibitory protein
NAMPT	Nicotinamide phosphoribosyltransferase
NANOG	Nanog homeobox
NANOS1	Nanos C2HC-type zinc finger 1
NAP1L5	Nucleosome assembly protein 1 like 5
NAPEPLD	N-acyl phosphatidylethanolamine phospholipase D
NAV2	Neuron navigator 2
NBAT1	Neuroblastoma associated transcript 1
NBPF20	Neuroblastoma breakpoint family member 20
NCAPD3	Non-SMC condensin II complex subunit D3
NCBP2	Nuclear cap binding protein subunit 2
NCEH1	Neutral cholesterol ester hydrolase 1
NDRG2	NDRG family member 2
NDUFAF7	NADH:ubiquinone oxidoreductase complex assembly factor 7
NDUFB8	NADH:ubiquinone oxidoreductase subunit B8
NDUFS1	NADH:ubiquinone oxidoreductase core subunit S1
NEDD1	Neural precursor cell expressed, developmentally down-regulated 1
NEK1	NIMA related kinase 1
NEMF	Nuclear export mediator factor
NEMP1	Nuclear envelope integral membrane protein 1
NFATC2IP	Nuclear factor of activated T-cells 2 interacting protein
NFATC4	Nuclear factor of activated T-cells 4
NFE4	Nuclear factor, erythroid 4
NFIB	Nuclear factor I B
NFIX	Nuclear factor I X
NFKBIL1	NFKB inhibitor like 1
NFKBIZ	NFKB inhibitor zeta
NFYB	Nuclear transcription factor Y subunit beta
NHLRC2	NHL repeat containing 2
NHLRC3	NHL repeat containing 3
NHSL1	NHS like 1
NIFK-AS1	NIFK antisense RNA 1
NIN	Ninein
NIPAL2	NIPA like domain containing 2
NIPBL	NIPBL, cohesin loading factor
NKTR	Natural killer cell triggering receptor

NKX1-1	NK1 homeobox 1
NLN	Neurolysin
NLRC5	NLR family CARD domain containing 5
NLRP14	NLR family pyrin domain containing 14
NMRAL1	Nmra like redox sensor 1
NMRK2	Nicotinamide riboside kinase 2
NMT2	N-myristoyltransferase 2
NNT	Nicotinamide nucleotide transhydrogenase
NOL12	Nucleolar protein 12
NOL8	Nucleolar protein 8
NOM1	Nucleolar protein with MIF4G domain 1
NOP58	NOP58 ribonucleoprotein
NORAD	Non-coding RNA activated by DNA damage
NOV	Nephroblastoma overexpressed
NPAT	Nuclear protein, coactivator of histone transcription
NPBWR1	Neuropeptides B/W receptor 1
NPHP3	Nephronophthisis 3 (adolescent)
NPIPA5///NPIPB6///NPIPB8///NPIPB3	Nuclear pore complex interacting protein family member A5///nuclear pore complex interacting protein family member B6///nuclear pore complex interacting protein family member B8///nuclear pore complex interacting protein family member B3
NPR3	Natriuretic peptide receptor 3
NPRL3	NPR3 like, GATOR1 complex subunit
NPTN-IT1	NPTN intronic transcript 1
NR2C1	Nuclear receptor subfamily 2 group C member 1
NRIP1	Nuclear receptor interacting protein 1
NRP2	Neuropilin 2
NSD1	Nuclear receptor binding SET domain protein 1
NSG1	Neuron specific gene family member 1
NSMCE4A	NSE4 homolog A, SMC5-SMC6 complex component
NSRP1	Nuclear speckle splicing regulatory protein 1
NSUN5	NOP2/Sun RNA methyltransferase family member 5
NSUN5P1	NOP2/Sun RNA methyltransferase family member 5 pseudogene 1
NSUN5P2///NSUN5P1	NOP2/Sun RNA methyltransferase family member 5 pseudogene 2///NOP2/Sun RNA methyltransferase family member 5 pseudogene 1
NSUN6	NOP2/Sun RNA methyltransferase family member 6
NSUN7	NOP2/Sun RNA methyltransferase family member 7
NUCKS1	Nuclear casein kinase and cyclin dependent kinase substrate 1
NUDCD1	Nudc domain containing 1
NUDT14	Nudix hydrolase 14
NUMBL	NUMB like, endocytic adaptor protein
NUP160	Nucleoporin 160
NUP210	Nucleoporin 210
NUP35	Nucleoporin 35
NUP54	Nucleoporin 54

NUTM2B	NUT family member 2B
NUTM2B-AS1	NUTM2B antisense RNA 1
NVL	Nuclear VCP-like
OAZ2	Ornithine decarboxylase antizyme 2
OBFC1	Oligonucleotide/oligosaccharide binding fold containing 1
OBSCN	Obscurin, cytoskeletal calmodulin and titin-interacting rhogef
OCLN	Occludin
ODC1	Ornithine decarboxylase 1
ODF2L	Outer dense fiber of sperm tails 2 like
ODF3B	Outer dense fiber of sperm tails 3B
OFD1	OFD1, centriole and centriolar satellite protein
OGFOD1	2-oxoglutarate and iron dependent oxygenase domain containing 1
OGG1	8-oxoguanine DNA glycosylase
OGT	O-linked N-acetylglucosamine (glcnac) transferase
OMA1	OMA1 zinc metallopeptidase
OPRL1	Opioid related nociceptin receptor 1
OR10D1P	Olfactory receptor family 10 subfamily D member 1 pseudogene
OR2S2	Olfactory receptor family 2 subfamily S member 2 (gene/pseudogene)
OR3A3///OR1E2 ///OR1E1	Olfactory receptor family 3 subfamily A member 3///olfactory receptor family 1 subfamily E member 2///olfactory receptor family 1 subfamily E member 1
OR4D1	Olfactory receptor family 4 subfamily D member 1
ORAI2	ORAI calcium release-activated calcium modulator 2
ORM2///ORM1	Orosomucoid 2///orosomucoid 1
OSBP	Oxysterol binding protein
OSBP2	Oxysterol binding protein 2
OSBPL3	Oxysterol binding protein like 3
OSGIN2	Oxidative stress induced growth inhibitor family member 2
OSM	Oncostatin M
OTUD6B	OTU domain containing 6B
OTULIN	OTU deubiquitinase with linear linkage specificity
OVCH1-AS1	OVCH1 antisense RNA 1
OXR1	Oxidation resistance 1
P2RX5-TAX1BP3///TAX 1BP3///P2RX5	P2RX5-TAX1BP3 readthrough (NMD candidate)///Tax1 binding protein 3///purinergic receptor P2X 5
P2RY12	Purinergic receptor P2Y12
P3H1	Prolyl 3-hydroxylase 1
PAAF1	Proteasomal atpase associated factor 1
PABPC1L	Poly(A) binding protein cytoplasmic 1 like
PABPN1	Poly(A) binding protein nuclear 1
PAIP1	Poly(A) binding protein interacting protein 1
PAK4	P21 (RAC1) activated kinase 4
PAPOLA	Poly(A) polymerase alpha
PAPOLG	Poly(A) polymerase gamma
PAQR8	Progestin and adipoq receptor family member 8

PARP15	Poly(ADP-ribose) polymerase family member 15
PART1	Prostate androgen-regulated transcript 1 (non-protein coding)
PAX1	Paired box 1
PAX5	Paired box 5
PAX8-AS1	PAX8 antisense RNA 1
PAXBP1	PAX3 and PAX7 binding protein 1
PAXBP1-AS1	PAXBP1 antisense RNA 1
PBRM1	Polybromo 1
PCBP1-AS1	PCBP1 antisense RNA 1
PCDHB11	Protocadherin beta 11
PCDHB13	Protocadherin beta 13
PCF11	PCF11 cleavage and polyadenylation factor subunit
PCGF3	Polycomb group ring finger 3
PCGF5	Polycomb group ring finger 5(
PCGF5	Polycomb group ring finger 5
PCM1	Pericentriolar material 1
PCMTD1	Protein-L-isoaspartate (D-aspartate) O-methyltransferase domain containing 1
PCNP	PEST proteolytic signal containing nuclear protein
PCNX1	Pecanex homolog 1 (Drosophila)
PCNX2	Pecanex homolog 2 (Drosophila)
PCNX4	Pecanex homolog 4 (Drosophila)
PCOLCE	Procollagen C-endopeptidase enhancer
PDCD2	Programmed cell death 2
PDE3B	Phosphodiesterase 3B
PDE4B	Phosphodiesterase 4B
PDE7A	Phosphodiesterase 7A
PDE8A	Phosphodiesterase 8A
PDHA1	Pyruvate dehydrogenase (lipoamide) alpha 1
PDIA6	Protein disulfide isomerase family A member 6
PDK2	Pyruvate dehydrogenase kinase 2
PDK4	Pyruvate dehydrogenase kinase 4
PDLIM5	PDZ and LIM domain 5
PDZD8	PDZ domain containing 8
PDZK1IP1	PDZK1 interacting protein 1
PEA15	Phosphoprotein enriched in astrocytes 15
PER2	Period circadian clock 2
PERM1	PPARGC1 and ESRR induced regulator, muscle 1
PEX3	Peroxisomal biogenesis factor 3
PFKFB3	6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 3
PGAP1	Post-GPI attachment to proteins 1
PGGHG	Protein-glucosylgalactosylhydroxylysine glucosidase
PGK1	Phosphoglycerate kinase 1
PGLYRP1	Peptidoglycan recognition protein 1

PGRMC1	Progesterone receptor membrane component 1
PHBP19	Prohibitin pseudogene 19
PHC3	Polyhomeotic homolog 3
PHF14	PHD finger protein 14
PHF6	PHD finger protein 6
PHIP	Pleckstrin homology domain interacting protein
PHLDB2	Pleckstrin homology like domain family B member 2
PHOSPHO1	Phosphoethanolamine/phosphocholine phosphatase
PHOSPHO2	Phosphatase, orphan 2
PI3	Peptidase inhibitor 3
PIAS2	Protein inhibitor of activated STAT 2
PIGC	Phosphatidylinositol glycan anchor biosynthesis class C
PIGH	Phosphatidylinositol glycan anchor biosynthesis class H
PIGQ	Phosphatidylinositol glycan anchor biosynthesis class Q
PIGW	Phosphatidylinositol glycan anchor biosynthesis class W
PIK3AP1	Phosphoinositide-3-kinase adaptor protein 1
PIK3C2A	Phosphatidylinositol-4-phosphate 3-kinase catalytic subunit type 2 alpha
PIK3C3	Phosphatidylinositol 3-kinase catalytic subunit type 3
PINK1	PTEN induced putative kinase 1
PIP5KL1	Phosphatidylinositol-4-phosphate 5-kinase like 1
PITHD1	PITH domain containing 1
PITPNC1	Phosphatidylinositol transfer protein, cytoplasmic 1
PITPNC1	Phosphatidylinositol transfer protein, cytoplasmic 1
PITX2	Paired like homeodomain 2
PKD2	Polycystin 2, transient receptor potential cation channel
PKM	Pyruvate kinase, muscle
PLA2G12A	Phospholipase A2 group XIIA
PLA2G12B	Phospholipase A2 group XIIB
PLA2G7	Phospholipase A2 group VII
PLAG1	PLAG1 zinc finger
PLCB1	Phospholipase C beta 1
PLCG1	Phospholipase C gamma 1
PLCH2	Phospholipase C eta 2
PLCXD2	Phosphatidylinositol specific phospholipase C X domain containing 2
PLEK2	Pleckstrin 2
PLEKHA8	Pleckstrin homology domain containing A8
PLGLB1///PLGLB2	Plasminogen-like B1///plasminogen-like B2
PLPP5	Phospholipid phosphatase 5
PLXDC1	Plexin domain containing 1
PLXNA1	Plexin A1
PLXNB1	Plexin B1
PLXNC1	Plexin C1
PM20D2	Peptidase M20 domain containing 2

PMS1	PMS1 homolog 1, mismatch repair system component
PMS2CL///PMS2	PMS2 C-terminal like pseudogene///PMS1 homolog 2, mismatch repair system component
PNISR	PNN interacting serine and arginine rich protein
PNMA2	Paraneoplastic Ma antigen 2
PNN	Pinin
PNN	Pinin, desmosome associated protein
PNPLA2	Patatin like phospholipase domain containing 2
POLH	DNA polymerase eta
POLL	Polymerase (DNA) lambda
POLR2J4	RNA polymerase II subunit J4, pseudogene
POMT1	Protein O-mannosyltransferase 1
POU2AF1	POU class 2 associating factor 1
POU2F2	POU class 2 homeobox 2
POU6F1	POU class 6 homeobox 1
PPA2	Pyrophosphatase (inorganic) 2
PPARA	Peroxisome proliferator activated receptor alpha
PPAT	Phosphoribosyl pyrophosphate amidotransferase
PPFIA1	PTPRF interacting protein alpha 1
PPHLN1	Periphilin 1
PPI	Protein-protein interaction
PPIF	Peptidylprolyl isomerase F
PPL	Periplakin
PPM1H	Protein phosphatase, Mg2+/Mn2+ dependent 1H
PPM1J	Protein phosphatase, Mg2+/Mn2+ dependent 1J
PPM1K	Protein phosphatase, Mg2+/Mn2+ dependent 1K
PPP1R1B	Protein phosphatase 1 regulatory inhibitor subunit 1B
PPP1R2	Protein phosphatase 1 regulatory inhibitor subunit 2
PPP1R21	Protein phosphatase 1 regulatory subunit 21
PPP1R26-AS1	PPP1R26 antisense RNA 1
PPP1R3A	Protein phosphatase 1 regulatory subunit 3A
PPP1R3E	Protein phosphatase 1 regulatory subunit 3E
PPP2R2D	Protein phosphatase 2 regulatory subunit Bdelta
PPP2R5B	Protein phosphatase 2 regulatory subunit b'beta
PPP3CC	Protein phosphatase 3 catalytic subunit gamma
PPP3R1	Protein phosphatase 3 regulatory subunit B, alpha
PPP4R1L	Protein phosphatase 4 regulatory subunit 1 like (pseudogene)
PPP6R2	Protein phosphatase 6 regulatory subunit 2
PPP6R3	Protein phosphatase 6 regulatory subunit 3
PPWD1	Peptidylprolyl isomerase domain and WD repeat containing 1
PQLC3	PQ loop repeat containing 3
PRDM15	PR/SET domain 15
PRDX6	Peroxiredoxin 6
PRICKLE1	Prickle planar cell polarity protein 1

PRKAA1	Protein kinase AMP-activated catalytic subunit alpha 1
PRKAB2	Protein kinase AMP-activated non-catalytic subunit beta 2
PRKACA	Protein kinase camp-activated catalytic subunit alpha
PRKACB	Protein kinase camp-activated catalytic subunit beta
PRKCI	Protein kinase C iota
PRKCQ-AS1	PRKCQ antisense RNA 1
PRKD3	Protein kinase D3
PRKXP1	Protein kinase, X-linked, pseudogene 1
PRMT2	Protein arginine methyltransferase 2
PRMT5	Protein arginine methyltransferase 5
PRMT8	Protein arginine methyltransferase 8
PRO0471	Uncharacterized LOC28994
PROSC	Proline synthetase cotranscribed homolog (bacterial)
PRPF38B	Pre-mrna processing factor 38B
PRPF39	Pre-mrna processing factor 39
PRPF40A	Pre-mrna processing factor 40 homolog A
PRPF4B	Pre-mrna processing factor 4B
PRR14L	Proline rich 14 like
PRR16	Proline rich 16
PRR35	Proline rich 35
PRSS23	Protease, serine 23
PRSS33	Protease, serine 33
PSD4	Pleckstrin and Sec7 domain containing 4
PSMA5	Proteasome subunit alpha 5
PSMB2	Proteasome subunit beta 2
PSMD5-AS1	PSMD5 antisense RNA 1 (head to head)
PSPC1	Paraspeckle component 1
PTBP2	Polypyrimidine tract binding protein 2
PTCH1	Patched 1
PTGDR2	Prostaglandin D2 receptor 2
PTGR1	Prostaglandin reductase 1
PTGS2	Prostaglandin-endoperoxide synthase 2
PTMS	Parathymosin
PTP4A1	Protein tyrosine phosphatase type IVA, member 1
PTPN11	Protein tyrosine phosphatase, non-receptor type 11
PTPN14	Protein tyrosine phosphatase, non-receptor type 14
PTPN22	Protein tyrosine phosphatase, non-receptor type 22
PTPRN2	Protein tyrosine phosphatase, receptor type N2
PTRF	Polymerase I and transcript release factor
PUS7	Pseudouridylate synthase 7 (putative)
PWAR6	Prader Willi/Angelman region RNA 6
PWWP2A	PWWP domain containing 2A
PWWP2B	PWWP domain containing 2B
PXDN	Peroxidasin

PXYLP1	2-phosphoxylose phosphatase 1
PYHIN1	Pyrin and HIN domain family member 1
PYROXD1	Pyridine nucleotide-disulphide oxidoreductase domain 1
PYROXD2	Pyridine nucleotide-disulphide oxidoreductase domain 2
PYY	Peptide YY
QKI	QKI, KH domain containing RNA binding
QPCT	Glutaminyl-peptide cyclotransferase
QPCTL	Glutaminyl-peptide cyclotransferase like
R3HDM4	R3H domain containing 4
RAB27A	RAB27A, member RAS oncogene family
RAB29	RAB29, member RAS oncogene family
RAB39B	RAB39B, member RAS oncogene family
RABEP2	Rabaptin, RAB gtpase binding effector protein 2
RAC1	Ras-related C3 botulinum toxin substrate 1 (rho family, small GTP binding protein Rac1)
RAD23B	RAD23 homolog B, nucleotide excision repair protein
RAD50	RAD50 double strand break repair protein
RAD51-AS1	RAD51 antisense RNA 1 (head to head)
RAI1	Retinoic acid induced 1
RALB	RALB Ras like proto-oncogene B
RALGAPA1	Ral gtpase activating protein catalytic alpha subunit 1
RALGAPA2	Ral gtpase activating protein catalytic alpha subunit 2
RALGAPB	Ral gtpase activating protein non-catalytic beta subunit
RALGPS2	Ral GEF with PH domain and SH3 binding motif 2
RANBP2	RAN binding protein 2
RANBP9	RAN binding protein 9
RAP1GAP2	RAP1 gtpase activating protein 2
RAP2A	RAP2A, member of RAS oncogene family
RAPH1	Ras association (ralgds/AF-6) and pleckstrin homology domains 1
RASGEF1A	Rasgef domain family member 1A
RASGEF1B	Rasgef domain family member 1B
RASGRF2	Ras protein specific guanine nucleotide releasing factor 2
RASGRP1	RAS guanyl releasing protein 1
RB1CC1	RB1 inducible coiled-coil 1
RBBP4	RB binding protein 4, chromatin remodeling factor
RBBP6	RB binding protein 6, ubiquitin ligase
RBM14-RBM4///RBM4	RBM14-RBM4 readthrough///RNA binding motif protein 4
RBM15	RNA binding motif protein 15
RBM26	RNA binding motif protein 26
RBM33	RNA binding motif protein 33
RBM39	RNA binding motif protein 39
RBM4	RNA binding motif protein 4
RBM41	RNA binding motif protein 41
RBM6	RNA binding motif protein 6

RBP2	Retinol binding protein 2
RBPJL	Recombination signal binding protein for immunoglobulin kappa J region like
RCBTB1	RCC1 and BTB domain containing protein 1
RCOR3	REST corepressor 3
RECK	Reversion inducing cysteine rich protein with kazal motifs
REPS1	RALBP1 associated Eps domain containing 1
REST	RE1 silencing transcription factor
RETNLB	Resistin like beta
REV3L	REV3 like, DNA directed polymerase zeta catalytic subunit
RFX7	Regulatory factor X7
RFXAP	Regulatory factor X associated protein
RGPD6///RGPD8///RGPD3///RGPD4///RGPD5	RANBP2-like and GRIP domain containing 6///RANBP2-like and GRIP domain containing 8///RANBP2-like and GRIP domain containing 3///RANBP2-like and GRIP domain containing 4///RANBP2-like and GRIP domain containing 5
RGR	Retinal G protein coupled receptor
RGS9BP	Regulator of G-protein signaling 9 binding protein
RHAG	Rh-associated glycoprotein
RHD	Rh blood group D antigen
RHD///RHCE	Rh blood group D antigen///Rh blood group ccee antigens
RHEB	Ras homolog enriched in brain
RHOA	Ras homolog family member A
RHOBTB3	Rho related BTB domain containing 3
RHOBTB3	Rho related BTB domain containing 3
RHOQ	Ras homolog family member Q
RIF1	Replication timing regulatory factor 1
RILP	Rab interacting lysosomal protein
RIOK1	RIO kinase 1
RIT1	Ras like without CAAX 1
RNASE3	Ribonuclease A family member 3
RND3	Rho family gtpase 3
RNF138	Ring finger protein 138
RNF146	Ring finger protein 146
RNF157	Ring finger protein 157
RNF157-AS1	RNF157 antisense RNA 1
RNF170	Ring finger protein 170
RNF182	Ring finger protein 182
RNMT	RNA guanine-7 methyltransferase
RNPC3	RNA binding region (RNP1, RRM) containing 3
RORA	RAR related orphan receptor A
RPRD1A	Regulation of nuclear pre-mrna domain containing 1A
RPRD2	Regulation of nuclear pre-mrna domain containing 2
RPS27L	Ribosomal protein S27 like
RPS6KB1	Ribosomal protein S6 kinase B1

RRAS2	Related RAS viral (r-ras) oncogene homolog 2
RREB1	Ras responsive element binding protein 1
RRN3P1	RRN3 homolog, RNA polymerase I transcription factor pseudogene 1
RRP15	Ribosomal RNA processing 15 homolog
RSF1	Remodeling and spacing factor 1
RSPH6A	Radial spoke head 6 homolog A
RSRP1	Arginine and serine rich protein 1
RTN4IP1	Reticulon 4 interacting protein 1
RUFY2	RUN and FYVE domain containing 2
RUFY3	RUN and FYVE domain containing 3
RUNDC3A	RUN domain containing 3A
RUSC1-AS1	RUSC1 antisense RNA 1
S100A9	S100 calcium binding protein A9
S100PBP	S100P binding protein
S1PR3	Sphingosine-1-phosphate receptor 3
SAA2-SAA4///SAA2///SAA1	SAA2-SAA4 readthrough///serum amyloid A2///serum amyloid A1
SACS	Sacsin molecular chaperone
SAMD9L	Sterile alpha motif domain containing 9 like
SAMM50	SAMM50 sorting and assembly machinery component
SAP30L	SAP30 like
SART3	Squamous cell carcinoma antigen recognized by T-cells 3
SATB1	SATB homeobox 1
SBNO1	Strawberry notch homolog 1
SCAF4	SR-related CTD associated factor 4
SCAI	Suppressor of cancer cell invasion
SCAMP1	Secretory carrier membrane protein 1
SCARNA13///SNHG10	Small Cajal body-specific RNA 13///small nucleolar RNA host gene 10
SCARNA15	Small Cajal body-specific RNA 15
SCD	Acyl-coa desaturase
SCD	Stearoyl-coa desaturase
SCML4	Sex comb on midleg-like 4 (Drosophila)
SCN3A	Sodium voltage-gated channel alpha subunit 3
SCOC	Short coiled-coil protein
SCRN3	Secernin 3
SCYL2	SCY1 like pseudokinase 2
SCYL3	SCY1 like pseudokinase 3
SDHAP2///LINC00969///SDHAP1	Succinate dehydrogenase complex flavoprotein subunit A pseudogene 2///long intergenic non-protein coding RNA 969///succinate dehydrogenase complex flavoprotein subunit A pseudogene 1
SDHAP3///RGS8	Succinate dehydrogenase complex flavoprotein subunit A pseudogene 3///regulator of G-protein signaling 8
SDHC	Succinate dehydrogenase complex subunit C
SDR39U1	Short chain dehydrogenase/reductase family 39U member 1

SEC14L4	SEC14 like lipid binding 4
SEC22A	SEC22 homolog A, vesicle trafficking protein
SELENBP1	Selenium binding protein 1
SEMA6A	Semaphorin 6A
SENP7	SUMO1/sentrin specific peptidase 7
SEPSECS	Sep (O-phosphoserine) trna:Sec (selenocysteine) trna synthase
SERPINB9	Serpin family B member 9
SERPINE2	Serpin family E member 2
SESN1	Sestrin 1
SESN3	Sestrin 3
SETD2	SET domain containing 2
SETD4	SET domain containing 4
SETD5	SET domain containing 5
SETSIP///SETP4 ///SET	SET-like protein///SET pseudogene 4///SET nuclear proto-oncogene
SF3A3	Splicing factor 3a subunit 3
SFPQ	Splicing factor proline and glutamine rich
SFR1	SWI5 dependent homologous recombination repair protein 1
SFT2D3///WDR3 3	SFT2 domain containing 3///WD repeat domain 33
SFXN1	Sideroflexin 1
SGK494	Uncharacterized serine/threonine-protein kinase sgk494
SGSM2	Small G protein signaling modulator 2
SH3GL1P2	SH3 domain containing GRB2 like 1, endophilin A2 pseudogene 2
SHISA7	Shisa family member 7
SHROOM3	Shroom family member 3
SHTN1	Shootin 1
SIN3A	SIN3 transcription regulator family member A
SIPA1L3	Signal induced proliferation associated 1 like 3
SIRPB1	Signal regulatory protein beta 1
SKP2	S-phase kinase-associated protein 2, E3 ubiquitin protein ligase
SLAIN2	SLAIN motif family member 2
SLAMF8	SLAM family member 8
SLC11A2	Solute carrier family 11 member 2
SLC12A2	Solute carrier family 12 member 2
SLC15A2	Solute carrier family 15 member 2
SLC16A10	Solute carrier family 16 member 10
SLC16A7	Solute carrier family 16 member 7
SLC19A2	Solute carrier family 19 member 2
SLC1A2	Solute carrier family 1 member 2
SLC20A2	Solute carrier family 20 member 2
SLC22A11	Solute carrier family 22 member 11
SLC22A4	Solute carrier family 22 member 4
SLC24A4	Solute carrier family 24 member 4
SLC25A16	Solute carrier family 25 member 16

SLC25A32	Solute carrier family 25 member 32
SLC25A37	Solute carrier family 25 member 37
SLC25A46	Solute carrier family 25 member 46
SLC26A11	Solute carrier family 26 member 11
SLC29A4	Solute carrier family 29 member 4
SLC2A1	Solute carrier family 2 member 1
SLC33A1	Solute carrier family 33 member 1
SLC35A2	Solute carrier family 35 member A2
SLC38A9	Solute carrier family 38 member 9
SLC39A2	Solute carrier family 39 member 2
SLC44A1	Solute carrier family 44 member 1
SLC45A1	Solute carrier family 45 member 1
SLC46A3	Solute carrier family 46 member 3
SLC48A1	Solute carrier family 48 member 1
SLC4A1	Solute carrier family 4 member 1 (Diego blood group)
SLC4A7	Solute carrier family 4 member 7
SLC5A3	Solute carrier family 5 member 3
SLC6A16	Solute carrier family 6 member 16
SLC6A8	Solute carrier family 6 member 8
SLC7A6OS	Solute carrier family 7 member 6 opposite strand
SLC8A1	Solute carrier family 8 member A1
SLC9B2	Solute carrier family 9 member B2
SLF2	SMC5-SMC6 complex localization factor 2
SLK	STE20 like kinase
SLX4IP	SLX4 interacting protein
SMA4	Glucuronidase beta pseudogene
SMAD6	SMAD family member 6
SMAD9	SMAD family member 9
SMARCA2	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 2
SMARCA4	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 4
SMARCAD1	SWI/SNF-related, matrix-associated actin-dependent regulator of chromatin, subfamily a, containing DEAD/H box 1
SMARCD3	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily d, member 3
SMC3	Structural maintenance of chromosomes 3
SMCHD1	Structural maintenance of chromosomes flexible hinge domain containing 1
SMG1P5///BOLA2///SMG1P2	SMG1P5, nonsense mediated mrna decay associated PI3K related kinase pseudogene 5///bola family member 2///SMG1P2, nonsense mediated mrna decay associated PI3K related kinase pseudogene 2
SMIM1	Small integral membrane protein 1 (Vel blood group)
SMIM11A	Small integral membrane protein 11A
SMIM14	Small integral membrane protein 14
SMIM24	Small integral membrane protein 24

SMIM7	Small integral membrane protein 7
SMOC2	SPARC related modular calcium binding 2
SMOX	Spermine oxidase
SMURF2	SMAD specific E3 ubiquitin protein ligase 2
SMYD2	SET and MYND domain containing 2
SNAI2	Snail family transcriptional repressor 2
SNAPC3	Small nuclear RNA activating complex polypeptide 3
SNAPC5	Small nuclear RNA activating complex polypeptide 5
SNCA	Synuclein alpha
SND1-IT1	SND1 intronic transcript 1
SNHG1///SNORD22///SNORD25///SNORD26///SNORD27///SNORD28///SNORD30///SNORD31///SNORD29	Small nucleolar RNA host gene 1///small nucleolar RNA, C/D box 22///small nucleolar RNA, C/D box 25///small nucleolar RNA, C/D box 26///small nucleolar RNA, C/D box 27///small nucleolar RNA, C/D box 28///small nucleolar RNA, C/D box 30///small nucleolar R
SNHG4///MATR3	Small nucleolar RNA host gene 4///matrin 3
SNORA29///TCP1	Small nucleolar RNA, H/ACA box 29///t-complex 1
SNORD14D///SNORD14C///HSPA8	Small nucleolar RNA, C/D box 14D///small nucleolar RNA, C/D box 14C///heat shock protein family A (Hsp70) member 8
SNORD50B///SNORD50A	Small nucleolar RNA, C/D box 50B///small nucleolar RNA, C/D box 50A
SNORD77///SNORD76///SNORD74///GAS5///SNORD44///SNORD47///SNORD80///SNORD79///SNORD81	Small nucleolar RNA, C/D box 77///small nucleolar RNA, C/D box 76///small nucleolar RNA, C/D box 74///growth arrest specific 5 (non-protein coding)///small nucleolar RNA, C/D box 44///small nucleolar RNA, C/D box 47///small nucleolar RNA, C/D box 80///sma
SNORD89	Small nucleolar RNA, C/D box 89
SNRNP70	Small nuclear ribonucleoprotein U1 subunit 70
SNRPA1	Small nuclear ribonucleoprotein polypeptide A'
SNURF///SNRPN	SNRPN upstream reading frame///small nuclear ribonucleoprotein poly-peptide N
SNX14	Sorting nexin 14
SNX2	Sorting nexin 2
SNX5	Sorting nexin 5
SOCS1	Suppressor of cytokine signaling 1
SON	SON DNA binding protein
SOX15	SRY-box 15
SP100	SP100 nuclear antigen
SP140L	SP140 nuclear body protein like
SP3	Sp3 transcription factor
SP5	Sp5 transcription factor

SPAG16	Sperm associated antigen 16
SPARC	Secreted protein acidic and cysteine rich
SPHAR///RAB4A	S-phase response (cyclin related)///RAB4A, member RAS oncogene family
SPIN2B///SPIN2A	Spindlin family member 2B///spindlin family member 2A
SPIN3	Spindlin family member 3
SPON1	Spondin 1
SPTB	Spectrin beta, erythrocytic
SPTBN1	Spectrin beta, non-erythrocytic 1
SRC	SRC proto-oncogene, non-receptor tyrosine kinase
SREK1	Splicing regulatory glutamic acid and lysine rich protein 1
SRGAP2	SLIT-ROBO Rho gtpase activating protein 2
SRPK2	SRSF protein kinase 2
SRPRB	SRP receptor beta subunit
SRRD	SRR1 domain containing
SRRT	Serrate, RNA effector molecule
SRSF10	Serine and arginine rich splicing factor 10
SRSF11	Serine and arginine rich splicing factor 11
SSBP1	Single stranded DNA binding protein 1
SSR3	Signal sequence receptor subunit 3
SSTR4	Somatostatin receptor 4
SSX3	SSX family member 3
ST3GAL3	ST3 beta-galactoside alpha-2,3-sialyltransferase 3
ST6GALNAC4	ST6 N-acetylgalactosaminide alpha-2,6-sialyltransferase 4
ST8SIA2	ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 2
STAG3L2///STAG3L3///TRIM73	Stromal antigen 3-like 2 (pseudogene)///stromal antigen 3-like 3 (pseudogene)///tripartite motif containing 73
STAMBPL1	STAM binding protein like 1
STC2	Stanniocalcin 2
STEAP4	STEAP4 metalloreductase
STIM1	Stromal interaction molecule 1
STK38	Serine/threonine kinase 38
STK40	Serine/threonine kinase 40
STMN3	Stathmin 3
STPG3	Sperm-tail PG-rich repeat containing 3
STRADB	STE20-related kinase adaptor beta
STRBP	Spermatid perinuclear RNA binding protein
STRING	Search Toll for the Retrieval of Interacting Genes
STRN3	Striatin 3
STX17-AS1	STX17 antisense RNA 1
STYX	Serine/threonine/tyrosine interacting protein
SUGP2	SURP and G-patch domain containing 2
SUGT1	SGT1 homolog, MIS12 kinetochore complex assembly cochaperone
SUN1	Sad1 and UNC84 domain containing 1

SUPT3H	SPT3 homolog, SAGA and STAGA complex component
SUPT7L	SPT7-like STAGA complex gamma subunit
SUZ12P1	SUZ12 polycomb repressive complex 2 subunit pseudogene 1
SVIL	Supervillin
SVIP	Small VCP interacting protein
SWAP70	SWAP switching B-cell complex 70kda subunit
SWI5	SWI5 homologous recombination repair protein
SYNE1	Spectrin repeat containing nuclear envelope protein 1
SYNE2	Spectrin repeat containing nuclear envelope protein 2
SYNJ2BP-COX16///SYNJ2BP	SYNJ2BP-COX16 readthrough///synaptojanin 2 binding protein
SYT17	Synaptotagmin 17
TAC3	Tachykinin 3
TACR2	Tachykinin receptor 2
TAF1	TATA-box binding protein associated factor 1
TAF11	TATA-box binding protein associated factor 11
TAF3	TATA-box binding protein associated factor 3
TAF4B	TATA-box binding protein associated factor 4b
TAF9B	TATA-box binding protein associated factor 9b
TAGAP	T-cell activation rhogtpase activating protein
TAL1	TAL bhlh transcription factor 1, erythroid differentiation factor
TAMM41	TAM41 mitochondrial translocator assembly and maintenance homolog
TARBP1	TAR (HIV-1) RNA binding protein 1
TARSL2	Threonyl-trna synthetase like 2
TAS2R14	Taste 2 receptor member 14
TASP1	Taspase 1
TATDN1	Tatd dnase domain containing 1
TBC1D10C	TBC1 domain family member 10C
TBC1D22B	TBC1 domain family member 22B
TBC1D31	TBC1 domain family member 31
TBC1D32	TBC1 domain family member 32
TBC1D4	TBC1 domain family member 4
TBCK	TBC1 domain containing kinase
TBL1XR1	Transducin (beta)-like 1 X-linked receptor 1
TBL1XR1	Transducin beta like 1 X-linked receptor 1
TBRG1	Transforming growth factor beta regulator 1
TC2N	Tandem C2 domains, nuclear
TCF12	Transcription factor 12
TCF3	Transcription factor 3
TCF4	Transcription factor 4
TCF7	Transcription factor 7 (T-cell specific, HMG-box)
TCL1A	T-cell leukemia/lymphoma 1A
TCL6	T-cell leukemia/lymphoma 6 (non-protein coding)
TCP11L2	T-complex 11 like 2

TDG	Thymine DNA glycosylase
TECTA	Tectorin alpha
TEKT4P2///MAFIP///LOC389834	Tektin 4 pseudogene 2///MAFF interacting protein (pseudo-gene)///ankyrin repeat domain 57 pseudogene
TEN1-CDK3///CDK3	TEN1-CDK3 readthrough (NMD candidate)///cyclin dependent kinase 3
TENM1	Teneurin transmembrane protein 1
TF	Serotransferrin
TF	Transferrin
TFAM	Transcription factor A, mitochondrial
TFDP2	Transcription factor Dp-2
TFEC	Transcription factor EC
TFRC	Transferrin receptor
TFRC	Transferrin receptor
TGFA	Transforming growth factor alpha
TGM3	Transglutaminase 3
TGOLN2	Trans-golgi network protein 2
THAP9-AS1	THAP9 antisense RNA 1
THBD	Thrombomodulin
THEM4	Thioesterase superfamily member 4
THOC2	THO complex 2
THSD4	Thrombospondin type 1 domain containing 4
THUMPD3	THUMP domain containing 3
TIA1	TIA1 cytotoxic granule-associated RNA binding protein
TIAL1	TIA1 cytotoxic granule-associated RNA binding protein-like 1
TIAM1	T-cell lymphoma invasion and metastasis 1
TIGD1	Tigger transposable element derived 1
TIGD7	Tigger transposable element derived 7
TIMM17A	Translocase of inner mitochondrial membrane 17 homolog A (yeast)
TIMM21	Translocase of inner mitochondrial membrane 21
TIMM9	Translocase of inner mitochondrial membrane 9
TKTL1	Transketolase like 1
TLE1	Transducin like enhancer of split 1
TLR4	Toll like receptor 4
TLR8	Toll like receptor 8
TLX2	T-cell leukemia homeobox 2
TM2D1	TM2 domain containing 1
TM6SF1	Transmembrane 6 superfamily member 1
TM7SF2	Transmembrane 7 superfamily member 2
TMCC3	Transmembrane and coiled-coil domain family 3
TMED2	Transmembrane p24 trafficking protein 2
TMED2	Transmembrane p24 trafficking protein 2
TMED5	Transmembrane p24 trafficking protein 5
TMEM116	Transmembrane protein 116
TMEM144	Transmembrane protein 144

TMEM168	Transmembrane protein 168
TMEM174	Transmembrane protein 174
TMEM260	Transmembrane protein 260
TMEM262	Transmembrane protein 262
TMEM267	Transmembrane protein 267
TMEM59	Transmembrane protein 59
TMEM63A	Transmembrane protein 63A
TMEM63B	Transmembrane protein 63B
TMTC3	Transmembrane and tetratricopeptide repeat containing 3
TNFAIP1	TNF alpha induced protein 1
TNFAIP6	TNF alpha induced protein 6
TNFRSF10A	TNF receptor superfamily member 10a
TNFRSF10C	TNF receptor superfamily member 10c
TNFRSF11B	TNF receptor superfamily member 11b
TNFRSF12A	TNF receptor superfamily member 12A
TNKS2	Tankyrase 2
TNNT3	Troponin T3, fast skeletal type
TNPO2	Transportin 2
TNRC18	Trinucleotide repeat containing 18
TNRC6A	Trinucleotide repeat containing 6A
TNRC6C	Trinucleotide repeat containing 6C
TNS1	Tensin 1
TOB1	Transducer of ERBB2, 1
TOP2A	Topoisomerase (DNA) II alpha
TOX3	TOX high mobility group box family member 3
TP73-AS1	TP73 antisense RNA 1
TPD52	Tumor protein D52
TPSAB1	Tryptase alpha/beta 1
TRA2A	Transformer 2 alpha homolog
TRA2B	Transformer 2 beta homolog (Drosophila)
TRAF3IP3	TRAF3 interacting protein 3
TRAF5	TNF receptor associated factor 5
TRAPPC9	Trafficking protein particle complex 9
TRIB1	Tribbles pseudokinase 1
TRIM10	Tripartite motif containing 10
TRIM15	Tripartite motif containing 15
TRIM23	Tripartite motif containing 23
TRIM25	Tripartite motif containing 25
TRIM4	Tripartite motif containing 4
TRIM5	Tripartite motif containing 5
TRIM58	Tripartite motif containing 58
TRIP11	Thyroid hormone receptor interactor 11
TRMT11	Trna methyltransferase 11 homolog
TRMT61B	Trna methyltransferase 61B

TRUB1	Trub pseudouridine synthase family member 1
TSC22D2	TSC22 domain family member 2
TSPAN13	Tetraspanin 13
TSPAN5	Tetraspanin 5
TSPAN7	Tetraspanin 7
TSPOAP1-AS1	TSPOAP1 antisense RNA 1
TSR1	TSR1, ribosome maturation factor
TTBK1	Tau tubulin kinase 1
TTBK2	Tau tubulin kinase 2
TTC13	Tetratricopeptide repeat domain 13
TTC14	Tetratricopeptide repeat domain 14
TTC25	Tetratricopeptide repeat domain 25
TTC28-AS1	TTC28 antisense RNA 1
TTC37	Tetratricopeptide repeat domain 37
TTC39B	Tetratricopeptide repeat domain 39B
TTC39C	Tetratricopeptide repeat domain 39C
TTC3P1///TTC3	Tetratricopeptide repeat domain 3 pseudogene 1///tetratricopeptide repeat domain 3
TTF2	Transcription termination factor 2
TTI1	TELO2 interacting protein 1
TTLL5	Tubulin tyrosine ligase like 5
TUBA4A	Tubulin alpha 4a
TUBE1	Tubulin epsilon 1
TUBGCP6	Tubulin gamma complex associated protein 6
TUG1	Taurine up-regulated 1 (non-protein coding)
TULP4	Tubby like protein 4
TWISTNB	TWIST neighbor
TXK	TXK tyrosine kinase
TXLNG	Taxilin gamma
TXNDC16	Thioredoxin domain containing 16
TXNL1	Thioredoxin like 1
U2SURP	U2 snrnp associated SURP domain containing
UBA2	Ubiquitin like modifier activating enzyme 2
UBASH3A	Ubiquitin associated and SH3 domain containing A
UBE2J2	Ubiquitin conjugating enzyme E2 J2
UBE3A	Ubiquitin protein ligase E3A
UBN2	Ubinuclein 2
UBTF	Upstream binding transcription factor, RNA polymerase I
UBTF	Upstream binding transcription factor, RNA polymerase I
UGGT2	UDP-glucose glycoprotein glucosyltransferase 2
UNC13D	Unc-13 homolog D
UPF2	UPF2 regulator of nonsense transcripts homolog (yeast)
UPF3A	UPF3 regulator of nonsense transcripts homolog A (yeast)
UPF3B	UPF3 regulator of nonsense transcripts homolog B (yeast)
UQCC1	Ubiquinol-cytochrome c reductase complex assembly factor 1

URGCP	Upregulator of cell proliferation
USP10	Ubiquitin specific peptidase 10
USP12	Ubiquitin specific peptidase 12
USP25	Ubiquitin specific peptidase 25
USP28	Ubiquitin specific peptidase 28
USP45	Ubiquitin specific peptidase 45
USP47	Ubiquitin specific peptidase 47
USP48	Ubiquitin specific peptidase 48
USP53	Ubiquitin specific peptidase 53
USP8	Ubiquitin specific peptidase 8
USP9Y	Ubiquitin specific peptidase 9, Y-linked
USPL1	Ubiquitin specific peptidase like 1
UVSSA	UV stimulated scaffold protein A
VAMP1	Vesicle associated membrane protein 1
VAMP3	Vesicle associated membrane protein 3
VAMP4	Vesicle associated membrane protein 4
VAV2	Vav guanine nucleotide exchange factor 2
VCAN	Versican
VCL	Vinculin
VDAC1	Voltage dependent anion channel 1
VEGFA	Vascular endothelial growth factor A
VMO1	Vitelline membrane outer layer 1 homolog
VNN3	Vanin 3
VPS13A	Vacuolar protein sorting 13 homolog A
VPS13B	Vacuolar protein sorting 13 homolog B
VPS13D	Vacuolar protein sorting 13 homolog D
VPS13D	Vacuolar protein sorting 13 homolog D
VPS36	Vacuolar protein sorting 36 homolog
VPS45	Vacuolar protein sorting 45 homolog
VPS50	VPS50, EARP/GARPII complex subunit
VPS54	VPS54, GARP complex subunit
VRK1	Vaccinia related kinase 1
VSTM2L	V-set and transmembrane domain containing 2 like
VWA5B1	Von Willebrand factor A domain containing 5B1
VWDE	Von Willebrand factor D and EGF domains
WARS	Tryptophanyl-trna synthetase
WDFY3-AS2	WDFY3 antisense RNA 2
WDR11	WD repeat domain 11
WDR19	WD repeat domain 19
WDR20	WD repeat domain 20
WDR27	WD repeat domain 27
WDR75	WD repeat domain 75
WEE1	WEE1 G2 checkpoint kinase
WFDC1	WAP four-disulfide core domain 1

WHAMMP2///WHAMMP3	WAS protein homolog associated with actin, golgi membranes and microtubules pseudogene 2///WAS protein homolog associated with actin, golgi membranes and microtubules pseudogene 3
WIPI1	WD repeat domain, phosphoinositide interacting 1
WLS	Wntless Wnt ligand secretion mediator
WNT5B	Wnt family member 5B
WNT7B	Wnt family member 7B
WRAP73	WD repeat containing, antisense to TP73
WSCD2	WSC domain containing 2
XAF1	XIAP associated factor 1
XPNPEP1	X-prolyl aminopeptidase 1
XPNPEP3	X-prolyl aminopeptidase 3
XPO7	Exportin 7
XPOT	Exportin for trna
XRCC5	X-ray repair cross complementing 5
XRN1	5'-3' exoribonuclease 1
YBX3	Y-box binding protein 3
YIPF4	Yip1 domain family member 4
YIPF5	Yip1 domain family member 5
YLPM1	YLP motif containing 1
yoSYT12	Synaptotagmin 12
YTHDC2	YTH domain containing 2
YWHAZ	Tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein zeta
ZADH2	Zinc binding alcohol dehydrogenase domain containing 2
ZAK	Sterile alpha motif and leucine zipper containing kinase AZK
ZBED5	Zinc finger BED-type containing 5
ZBTB1	Zinc finger and BTB domain containing 1
ZBTB20	Zinc finger and BTB domain containing 20
ZBTB24	Zinc finger and BTB domain containing 24
ZBTB26	Zinc finger and BTB domain containing 26
ZBTB41	Zinc finger and BTB domain containing 41
ZC2HC1A	Zinc finger C2HC-type containing 1A
ZC3H12D	Zinc finger CCCH-type containing 12D
ZC3H13	Zinc finger CCCH-type containing 13
ZC3H14	Zinc finger CCCH-type containing 14
ZC3H6	Zinc finger CCCH-type containing 6
ZC3H8	Zinc finger CCCH-type containing 8
ZCCHC10	Zinc finger CCHC-type containing 10
ZCCHC7	Zinc finger CCHC-type containing 7
ZCRB1	Zinc finger CCHC-type and RNA binding motif containing 1
ZDHHC11B///ZDHHC11	Zinc finger DHHC-type containing 11B///zinc finger DHHC-type containing 11
ZDHHC17	Zinc finger DHHC-type containing 17
ZDHHC2	Zinc finger DHHC-type containing 2

ZDHHC22	Zinc finger DHHC-type containing 22
ZDHHC6	Zinc finger DHHC-type containing 6
ZEB1	Zinc finger E-box binding homeobox 1
ZER1	Zyg-11 related cell cycle regulator
ZFP3	ZFP3 zinc finger protein
ZFP57	ZFP57 zinc finger protein
ZFP69	ZFP69 zinc finger protein
ZFP90	ZFP90 zinc finger protein
ZFYVE21	Zinc finger FYVE-type containing 21
ZFYVE28	Zinc finger FYVE-type containing 28
ZHX1	Zinc fingers and homeoboxes 1
ZHX2	Zinc fingers and homeoboxes 2
ZIC1	Zic family member 1
ZKSCAN1	Zinc finger with KRAB and SCAN domains 1
ZKSCAN7	Zinc finger with KRAB and SCAN domains 7
ZKSCAN8	Zinc finger with KRAB and SCAN domains 8
ZMAT1	Zinc finger matrin-type 1
ZMYM1	Zinc finger MYM-type containing 1
ZMYM2	Zinc finger MYM-type containing 2
ZMYM4	Zinc finger MYM-type containing 4
ZMYM5	Zinc finger MYM-type containing 5
ZMYM6	Zinc finger MYM-type containing 6
ZMYND11	Zinc finger MYND-type containing 11
ZMYND8	Zinc finger MYND-type containing 8
ZNF101	Zinc finger protein 101
ZNF107	Zinc finger protein 107
ZNF124	Zinc finger protein 124
ZNF137P	Zinc finger protein 137, pseudogene
ZNF138	Zinc finger protein 138
ZNF140	Zinc finger protein 140
ZNF207	Zinc finger protein 207
ZNF224	Zinc finger protein 224
ZNF226	Zinc finger protein 226
ZNF235	Zinc finger protein 235
ZNF248	Zinc finger protein 248
ZNF26	Zinc finger protein 26
ZNF260	Zinc finger protein 260
ZNF268	Zinc finger protein 268
ZNF286B///ZNF286A	Zinc finger protein 286B///zinc finger protein 286A
ZNF292	Zinc finger protein 292
ZNF300	Zinc finger protein 300
ZNF302	Zinc finger protein 302(ZNF302)
ZNF302	Zinc finger protein 302

ZNF320	Zinc finger protein 320
ZNF326	Zinc finger protein 326
ZNF337	Zinc finger protein 337
ZNF33A	Zinc finger protein 33A
ZNF354A	Zinc finger protein 354A
ZNF382	Zinc finger protein 382
ZNF404	Zinc finger protein 404
ZNF414	Zinc finger protein 414
ZNF425	Zinc finger protein 425
ZNF431	Zinc finger protein 431
ZNF432	Zinc finger protein 432
ZNF439	Zinc finger protein 439
ZNF468	Zinc finger protein 468
ZNF493	Zinc finger protein 493
ZNF493	Zinc finger protein 493
ZNF506	Zinc finger protein 506
ZNF507	Zinc finger protein 507
ZNF512B	Zinc finger protein 512B
ZNF518A	Zinc finger protein 518A
ZNF529	Zinc finger protein 529
ZNF536	Zinc finger protein 536
ZNF542P	Zinc finger protein 542, pseudogene
ZNF544	Zinc finger protein 544
ZNF548	Zinc finger protein 548
ZNF550	Zinc finger protein 550
ZNF551	Zinc finger protein 551
ZNF558	Zinc finger protein 558
ZNF561///ZNF562	Zinc finger protein 561///zinc finger protein 562
ZNF566	Zinc finger protein 566
ZNF568	Zinc finger protein 568
ZNF57	Zinc finger protein 57
ZNF585B	Zinc finger protein 585B
ZNF587B	Zinc finger protein 587B
ZNF621	Zinc finger protein 621
ZNF638	Zinc finger protein 638
ZNF652	Zinc finger protein 652
ZNF653	Zinc finger protein 653
ZNF667-AS1	ZNF667 antisense RNA 1 (head to head)
ZNF677	Zinc finger protein 677
ZNF680	Zinc finger protein 680
ZNF682	Zinc finger protein 682
ZNF708	Zinc finger protein 708
ZNF709	Zinc finger protein 709

ZNF721	Zinc finger protein 721
ZNF736	Zinc finger protein 736
ZNF75D	Zinc finger protein 75D
ZNF766	Zinc finger protein 766
ZNF767P	Zinc finger family member 767, pseudogene
ZNF768///ZNF747	Zinc finger protein 768///zinc finger protein 747
ZNF776	Zinc finger protein 776
ZNF777	Zinc finger protein 777
ZNF782	Zinc finger protein 782
ZNF813	Zinc finger protein 813
ZNF823	Zinc finger protein 823
ZNF827	Zinc finger protein 827
ZNF83	Zinc finger protein 83
ZNF84	Zinc finger protein 84
ZNHIT6	Zinc finger HIT-type containing 6
ZRANB2	Zinc finger RANBP2-type containing 2
ZSCAN21	Zinc finger and SCAN domain containing 21
ZSWIM8	Zinc finger SWIM-type containing 8
ZUFSP	Zinc finger with UFM1 specific peptidase domain
ZXDB	Zinc finger, X-linked, duplicated B
ZZZ3	Zinc finger ZZ-type containing 3