

## SUPPORTING INFORMATION

### *In vitro* study of polydopamine nanoparticles as protective antioxidant agents in fibroblasts derived from ARSACS patients

*Matteo Battaglini*<sup>1\*</sup>, *Alessio Carmignani*<sup>1,2</sup>, *Chiara Martinelli*<sup>1</sup>, *Jamila Colica*<sup>1</sup>, *Attilio Marino*<sup>1</sup>,  
*Stefano Doccini*<sup>3</sup>, *Valentina Mollo*<sup>4</sup>, *Francesca Santoro*<sup>4</sup>, *Martina Bartolucci*<sup>5</sup>, *Andrea Petretto*<sup>5</sup>,  
*Filippo Maria Santorelli*<sup>3</sup>, *Gianni Ciofani*<sup>1\*</sup>

<sup>1</sup> Istituto Italiano di Tecnologia, Smart Bio-Interfaces, Viale Rinaldo Piaggio 34, 56025 Pontedera, Italy

<sup>2</sup> Sant'Anna School of Advanced Studies, The Biorobotics Institute, Viale Rinaldo Piaggio 34, 56025 Pontedera, Italy

<sup>3</sup> IRCCS Fondazione Stella Maris, Molecular Medicine for Neurodegenerative and Neuromuscular Diseases Unit, Via dei Giacinti 3, 56128 Pisa, Italy

<sup>4</sup> Istituto Italiano di Tecnologia, Center for Advanced Biomaterials for Health Care, Largo Barsanti e Matteucci 53, 80125 Napoli, Italy

<sup>5</sup> IRCCS Istituto Giannina Gaslini, Core Facilities-Clinical Proteomics and Metabolomics, Via Gerolamo Gaslini 5, 16147 Genova, Italy

\*Corresponding authors: [matteo.battaglini@iit.it](mailto:matteo.battaglini@iit.it); [gianni.ciofani@iit.it](mailto:gianni.ciofani@iit.it)

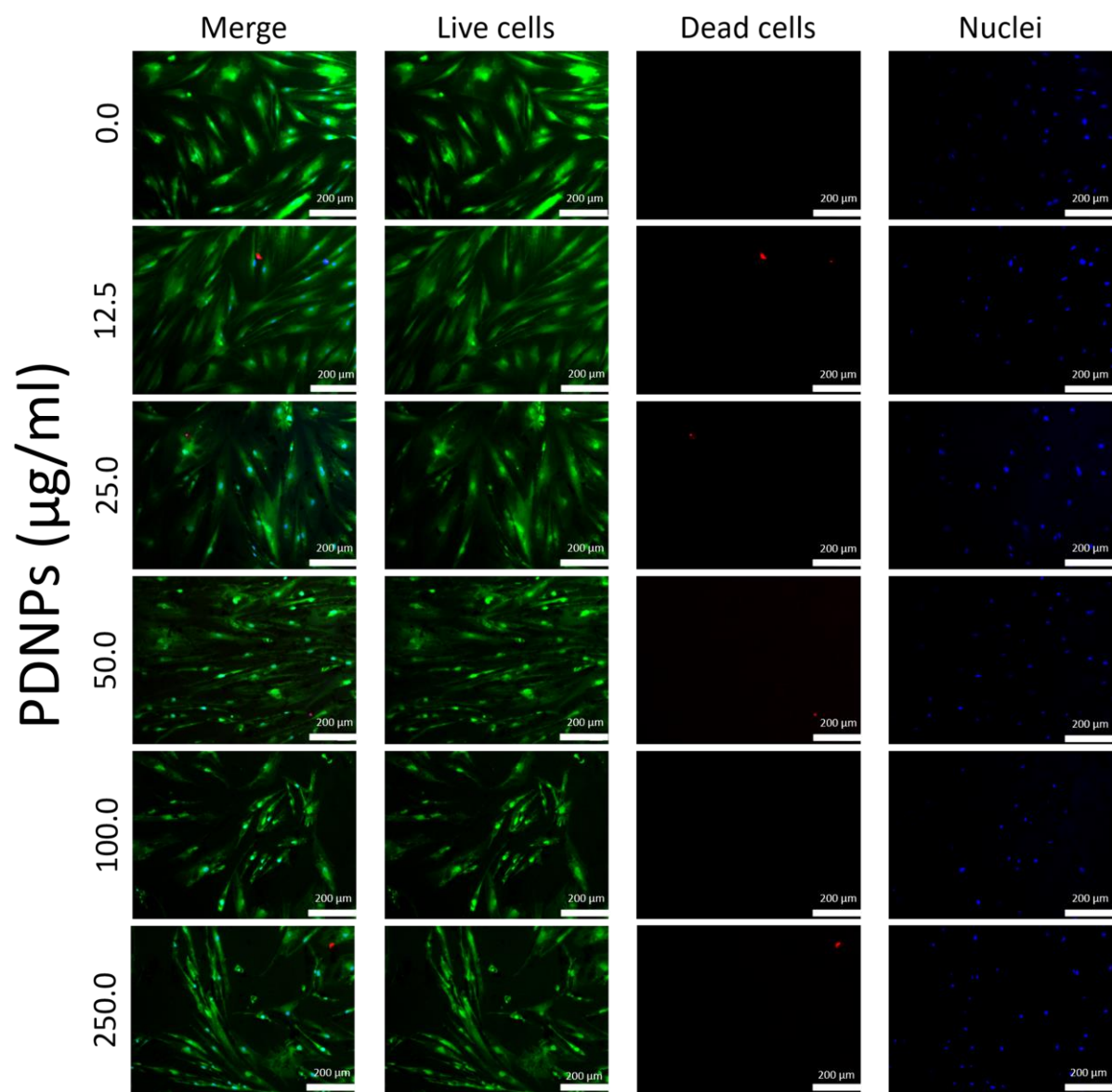


Figure S1. Representative epifluorescence images showing results of Live/Dead assay performed on healthy fibroblasts treated with increasing concentrations of PDNPs (in green live cells, in red dead cells, in blue nuclei).

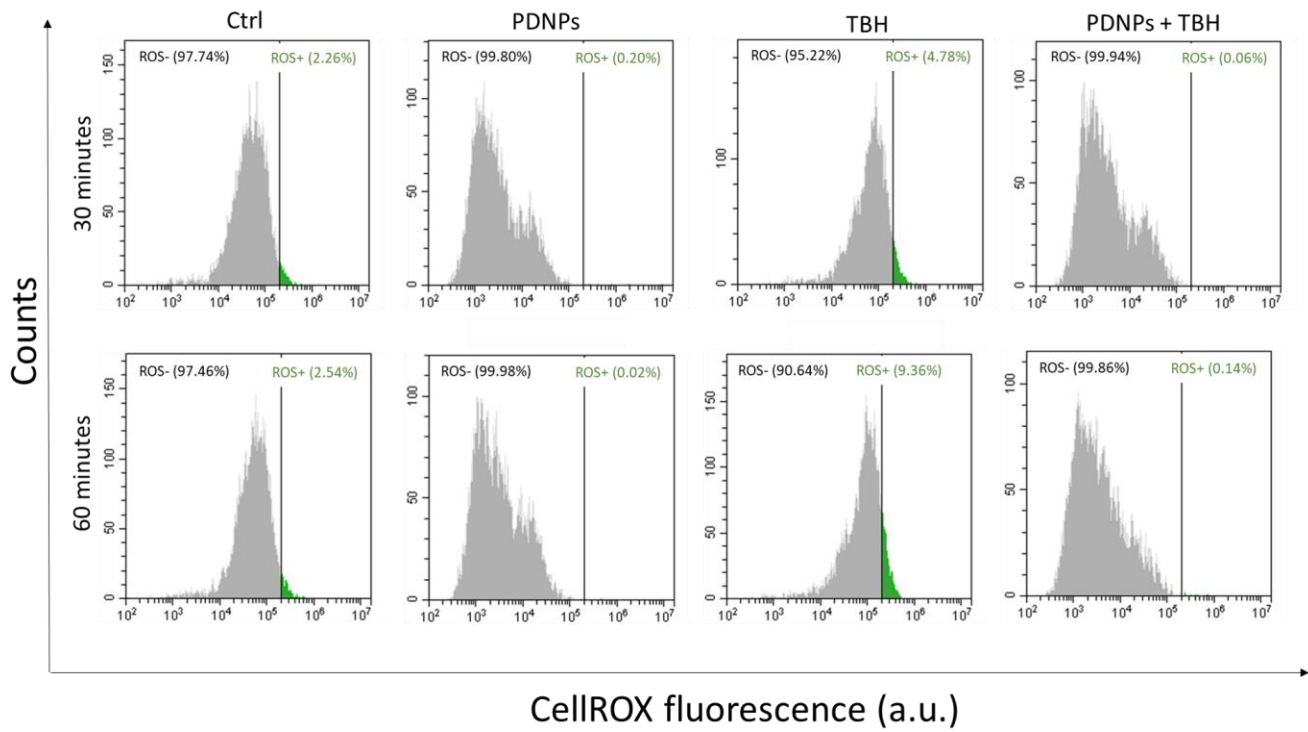


Figure S2. Representative histograms of flow cytometry analysis showing ROS levels in fibroblasts derived from healthy subjects (in grey ROS- cells, in green ROS+ cells) in the different experimental conditions.

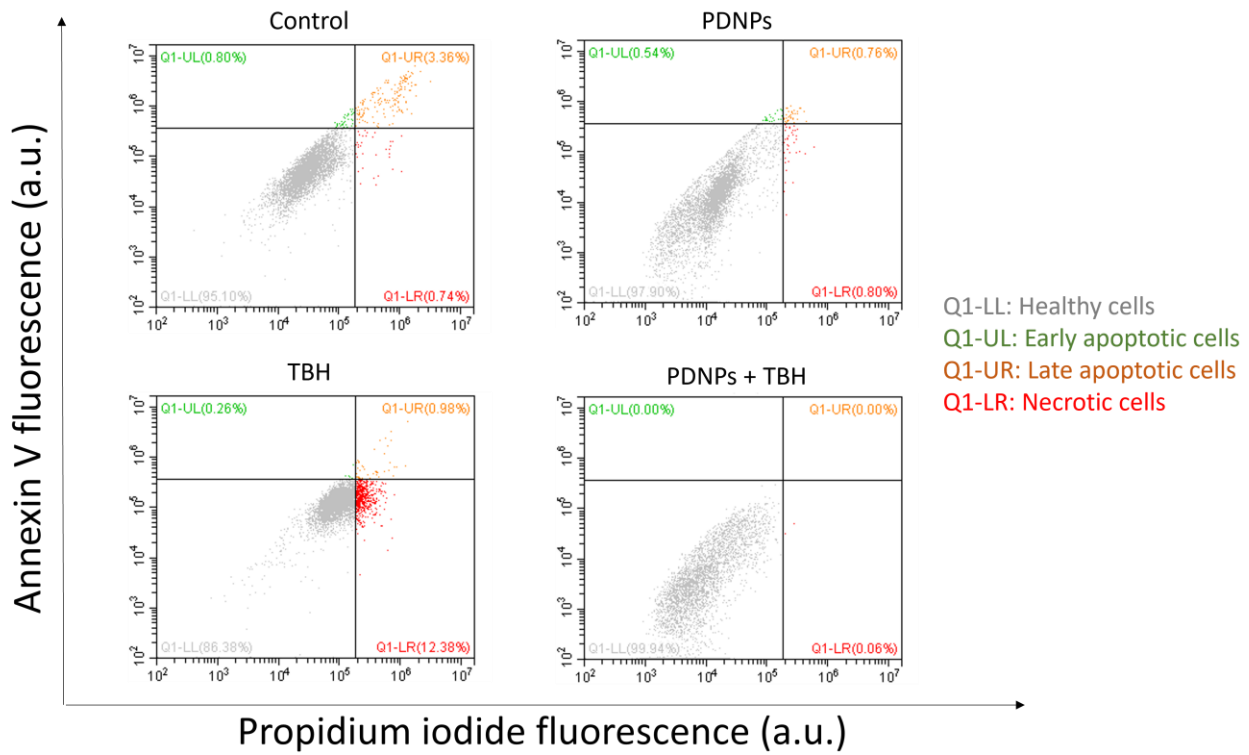


Figure S3. Representative dot plots of flow cytometry analysis showing the apoptosis/necrosis levels of fibroblasts derived from healthy subjects (in gray healthy cells, in green early apoptotic cells, in orange late apoptotic cells, in red necrotic cells) in the different experimental conditions.

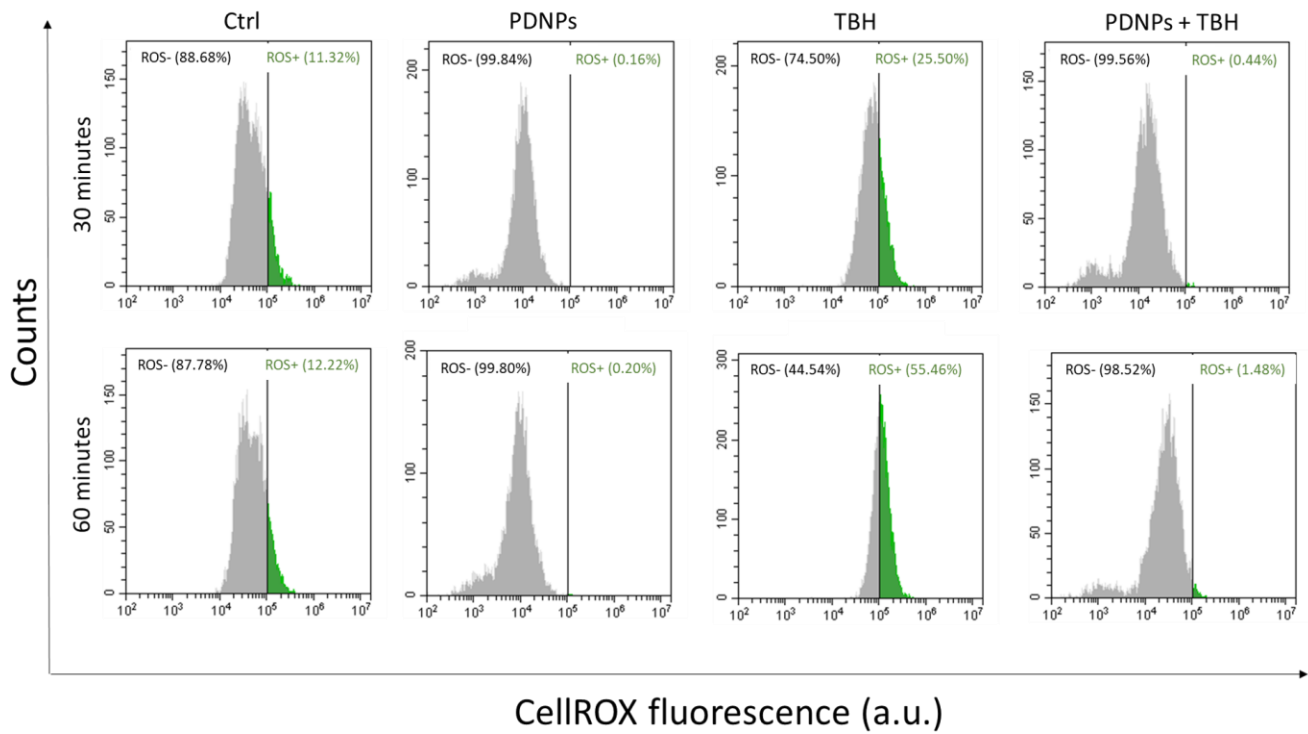


Figure S4. Representative histograms of flow cytometry analysis showing the ROS levels of fibroblasts derived from ARSACS patients (in grey ROS- cells, in green ROS+ cells) in the different experimental conditions.

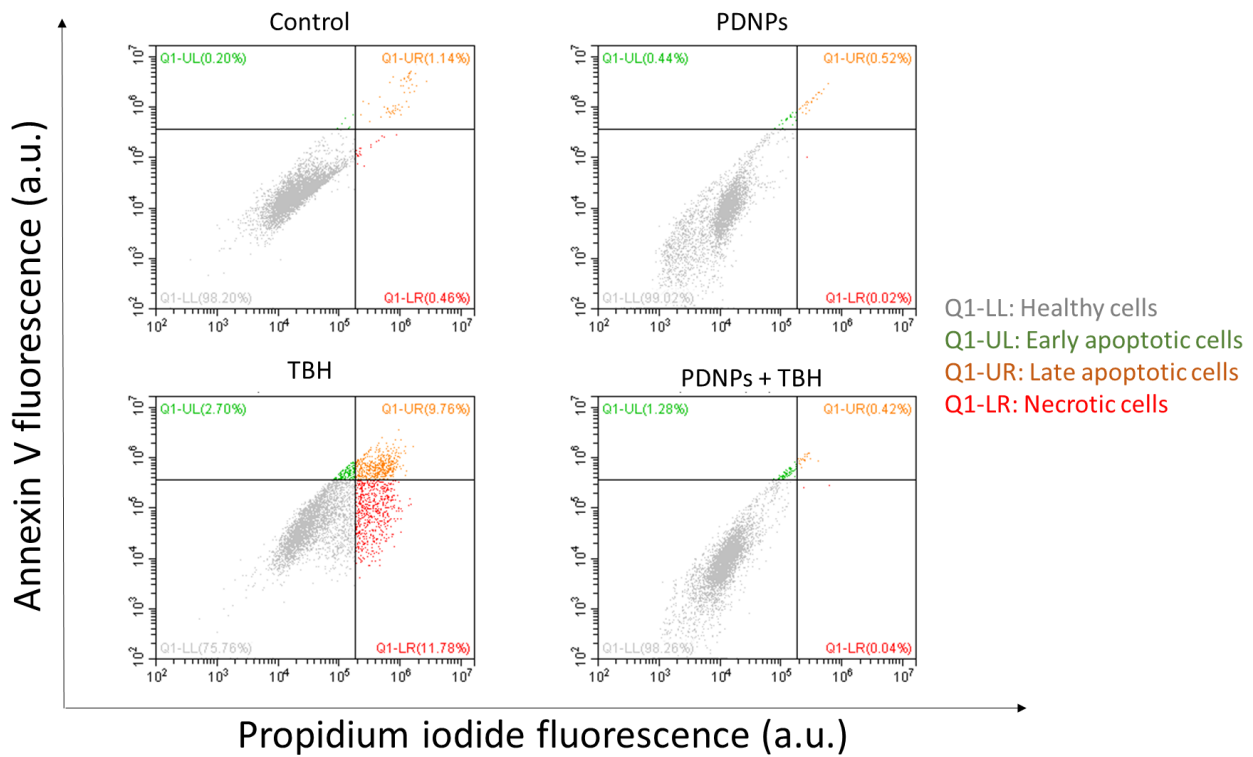


Figure S5. Representative dot plots of flow cytometry analysis showing the apoptosis/necrosis levels of fibroblasts derived from ARSACS patients (in grey healthy cells, in green early apoptotic cells, in orange late apoptotic cells, in red necrotic cells) in the different experimental conditions.

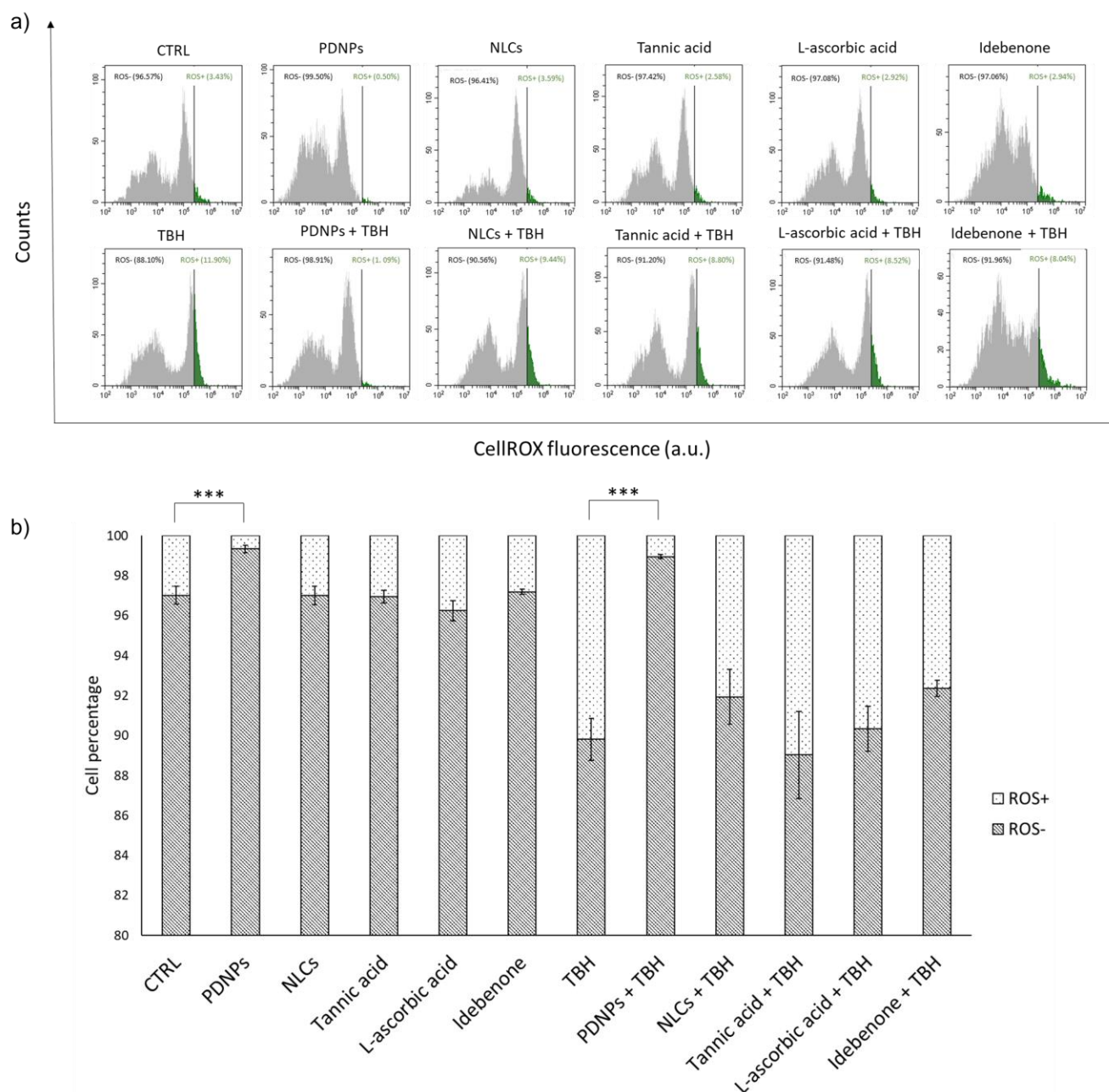


Figure S6. a) representative histograms of flow cytometry analysis showing ROS levels in fibroblasts derived from healthy subjects (in grey ROS- cells, in green ROS+ cells) in the different experimental conditions. b) Quantitative analysis of the antioxidant properties of PDNPs, NLCs, tannic acid, L-ascorbic acid, and idebenone on healthy fibroblasts. The plots show the % of ROS positive (ROS+) and ROS negative (ROS-) cells assessed by flow cytometry through CellRox<sup>TM</sup> staining (\*\*\*)  $p < 0.001$ ).



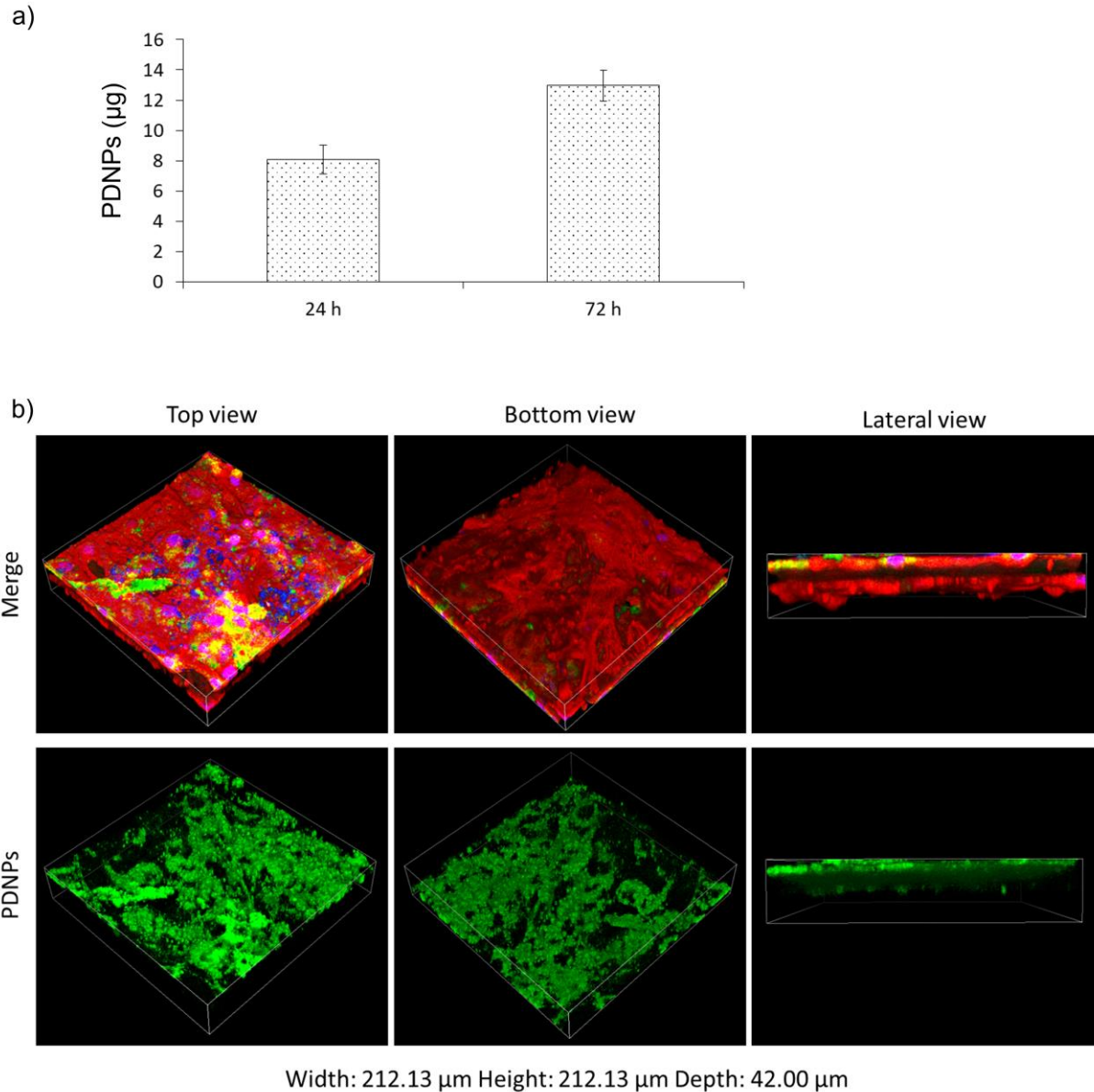


Figure S7. a) Amount of PDNPs able to cross the BBB *in vitro* model (PDNPs assessed in the basolateral side of the trans-well inserts after 24 and 72 h of incubation). b) 3D rendering obtained through confocal imaging of a representative trans-well insert seeded with bEnd.3 brain endothelial cells on the apical side (top view) and C8-D1A astrocytes on the basolateral side (bottom view) of the membrane. The co-cultures were treated with DiO stained PDNPs for 72 h in the apical compartment (f-actin in red, nuclei in blue, PDNPs in green).



Table S1. Clusters of differentially expressed proteins (healthy cells)

Cluster	Gene names	Protein names
Cluster -1266	FDPS	Farnesyl pyrophosphate synthase
Cluster -1266	AIMP1	Aminoacyl tRNA synthase complex-interacting multifunctional protein 1;Endothelial monocyte-activating polypeptide 2
Cluster -1266	SPG20	Spartin
Cluster -1266	SSR3	Translocon-associated protein subunit gamma
Cluster -1266	WASF2	Wiskott-Aldrich syndrome protein family member 2
Cluster -1266	RBM3	RNA-binding protein 3
Cluster -1266	PIN1	Peptidyl-prolyl cis-trans isomerase NIMA-interacting 1
Cluster -1266	SRM	Spermidine synthase
Cluster -1266	TRIOBP	TRIO and F-actin-binding protein
Cluster -1266	HSPB6	Heat shock protein beta-6
Cluster -1266	PUF60	Poly(U)-binding-splicing factor PUF60
Cluster -1266	UNC45A	Protein unc-45 homolog A
Cluster -1266	ANXA6	Annexin
Cluster -1266	RING1;RNF2	E3 ubiquitin-protein ligase RING1;E3 ubiquitin-protein ligase RING2
Cluster -1266	SNRPE	Small nuclear ribonucleoprotein E
Cluster -1266	TXLNA	Alpha-taxilin
Cluster -1266	SCOC	Short coiled-coil protein
Cluster -1266	API5	Apoptosis inhibitor 5
Cluster -1266	CLMP	CXADR-like membrane protein
Cluster -1250	ACTR10	Actin-related protein 10
Cluster -1250	MYCBP	C-Myc-binding protein
Cluster -1250	SAP18	Histone deacetylase complex subunit SAP18
Cluster -1250	STK38	Serine/threonine-protein kinase 38
Cluster -1250	NHP2L1	NHP2-like protein 1;NHP2-like protein 1, N-terminally processed
Cluster -1250	GPS1	COP9 signalosome complex subunit 1
Cluster -1250	COPS5	COP9 signalosome complex subunit 5
Cluster -1250	CAB39	Calcium-binding protein 39
Cluster -1250	CAPG	Macrophage-capping protein
Cluster -1250	ACPI	Low molecular weight phosphotyrosine protein phosphatase
Cluster -1250	METAP2	Methionine aminopeptidase 2
Cluster -1250	ARPC1A	Actin-related protein 2/3 complex subunit 1A
Cluster -1250	THOP1	Thimet oligopeptidase
Cluster -1250	HNRNPC	Heterogeneous nuclear ribonucleoproteins C1/C2
Cluster -1250	UBXN1	UBX domain-containing protein 1

Cluster -1250	CSRP2	Cysteine and glycine-rich protein 2
Cluster -1250	DCTN4	Dynactin subunit 4
Cluster -1250	LACTB2	Beta-lactamase-like protein 2
Cluster -1250	CPPED1	Serine/threonine-protein phosphatase CPPED1
Cluster -1250	YWHAH	14-3-3 protein eta
Cluster -1250	NT5C	5(3)-deoxyribonucleotidase, cytosolic type
Cluster -1250	CLTA	Clathrin light chain A
Cluster -1250	TCEB2	Transcription elongation factor B polypeptide 2
Cluster -1250	SRP9;DKFZp564M2223	Signal recognition particle 9 kDa protein
Cluster -1250	HDGFRP2	Hepatoma-derived growth factor-related protein 2
Cluster -1250	CALU	Calumenin
Cluster -1250	EIF1AX;EIF1AY	Eukaryotic translation initiation factor 1A, X-chromosomal;Eukaryotic translation initiation factor 1A, Y-chromosomal
Cluster -1250	PRRC2C	Protein PRRC2C
Cluster -1250	CFL2	Cofilin-2
Cluster -1250	C1orf123	UPF0587 protein C1orf123
Cluster -1250	DYNC2H1	Cytoplasmic dynein 2 heavy chain 1
Cluster -1250	ACTBL2	Beta-actin-like protein 2
Cluster -1250	FHL1	Four and a half LIM domains protein 1
Cluster -1250	IFI35	Interferon-induced 35 kDa protein
Cluster -1250	PPP1R18	Phostensin
Cluster -1250	RPS19	40S ribosomal protein S19
Cluster -1250	PCBP1	Poly(rC)-binding protein 1
Cluster -1250	ATP6V1G1	V-type proton ATPase subunit G 1
Cluster -1250	STX7	Syntaxin-7
Cluster -1250	CDC37	Hsp90 co-chaperone Cdc37;Hsp90 co-chaperone Cdc37, N-terminally processed
Cluster -1250	UBE2M	NEDD8-conjugating enzyme Ubc12
Cluster -1250	RPL8	60S ribosomal protein L8
Cluster -1250	USP14	Ubiquitin carboxyl-terminal hydrolase 14;Ubiquitin carboxyl-terminal hydrolase
Cluster -1250	IST1	IST1 homolog
Cluster -1250	FAS	Tumor necrosis factor receptor superfamily member 6
Cluster -1250	DAZAP1	DAZ-associated protein 1
Cluster -1250	PALM2;PALM2-AKAP2	Paralemmin-2
Cluster -1250	C16orf62	UPF0505 protein C16orf62
Cluster -1250	MXRA7	Matrix-remodeling-associated protein 7
Cluster -1250	RPS29	40S ribosomal protein S29
Cluster -1250	RBMX;RBMXL1	RNA-binding motif protein, X chromosome;RNA-binding motif protein, X chromosome, N-terminally processed;RNA

		binding motif protein, X-linked-like-1
Cluster -1250	ARPP19	cAMP-regulated phosphoprotein 19
Cluster -1250	SLC7A5;SLC7A7	Large neutral amino acids transporter small subunit 1;Y+L amino acid transporter 1
Cluster -1250	RPLP2	60S acidic ribosomal protein P2
Cluster -1250	RCC1	Regulator of chromosome condensation
Cluster -1250	CRIP1	Cysteine-rich protein 1
Cluster -1250	C1orf198	Uncharacterized protein C1orf198
Cluster -1250	LARP1	La-related protein 1
Cluster -1250	NECAP2	Adaptin ear-binding coat-associated protein 2
Cluster -1250	HGS	Hepatocyte growth factor-regulated tyrosine kinase substrate
Cluster -1250	CRIP2	Cysteine-rich protein 2
Cluster -1250	GRB2	Growth factor receptor-bound protein 2
Cluster -1250	PFDN2	Prefoldin subunit 2
Cluster -1250	OVCA2	Ovarian cancer-associated gene 2 protein
Cluster -1250	CAMK2B	Calcium/calmodulin-dependent protein kinase type II subunit beta
Cluster -1250	RPS28	40S ribosomal protein S28
Cluster -1250	TPM1	N/A
Cluster -1250	H3F3A;H3F3B;HIST3H3	Histone H3.3;Histone H3;Histone H3.1t
Cluster -1250	APEH	Acylamino-acid-releasing enzyme
Cluster -1250	CCDC74A;CCDC74B	Coiled-coil domain-containing protein 74A;Coiled-coil domain-containing protein 74B
Cluster -1250	PEF1	Peflin
Cluster -1250	HNRNPAB	Heterogeneous nuclear ribonucleoprotein A/B
Cluster -1250	PCNP	PEST proteolytic signal-containing nuclear protein
Cluster -1250	NFASC	Neurofascin
Cluster -1250	RPS5	40S ribosomal protein S5;40S ribosomal protein S5, N-terminally processed
Cluster -1205	NEDD8;NEDD8-MDP1	NEDD8
Cluster -1205	EIF5	Eukaryotic translation initiation factor 5
Cluster -1205	EIF3H	Eukaryotic translation initiation factor 3 subunit H
Cluster -1205	DPP3	Dipeptidyl peptidase 3
Cluster -1205	MCTS1	Malignant T-cell-amplified sequence 1
Cluster -1205	CRKL	Crk-like protein
Cluster -1268	AKR1C3	Aldo-keto reductase family 1 member C3
Cluster -1268	BASP1	Brain acid soluble protein 1
Cluster -1268	ARPC1B	Actin-related protein 2/3 complex subunit 1B
Cluster -1268	SUMO3	Small ubiquitin-related modifier 3
Cluster -1268	UBAP2L	Ubiquitin-associated protein 2-like
Cluster -1268	CHMP4B	Charged multivesicular body protein 4b

Cluster -1268	RPS6	40S ribosomal protein S6
Cluster -1268	GBP1	Interferon-induced guanylate-binding protein 1
Cluster -1268	PPP3R1	Calcineurin subunit B type 1
Cluster -1268	GSTT1	Glutathione S-transferase theta-1
Cluster -1268	PFN2	Profilin-2;Profilin
Cluster -1268	SCFD1	Sec1 family domain-containing protein 1
Cluster -1268	VBP1	Prefoldin subunit 3
Cluster -1268	PNPO	Pyridoxine-5-phosphate oxidase
Cluster -1268	PDXK	Pyridoxal kinase
Cluster -1268	SUGT1	Suppressor of G2 allele of SKP1 homolog
Cluster -1268	FSCN1	Fascin
Cluster -1268	02-set	Septin-2
Cluster -1268	RAC1;RAC2;RAC3	Ras-related C3 botulinum toxin substrate 1;Ras-related C3 botulinum toxin substrate 2;Ras-related C3 botulinum toxin substrate 3
Cluster -1268	ATIC	Bifunctional purine biosynthesis protein PURH;Phosphoribosylaminoimidazolecarboxamide formyltransferase;IMP cyclohydrolase
Cluster -1268	RPL10A	60S ribosomal protein L10a
Cluster -1268	FHL2	Four and a half LIM domains protein 2
Cluster -1268	KPNA4	Importin subunit alpha-3
Cluster -1268	RHOA	Transforming protein RhoA
Cluster -1268	HMGB1;HMGB1 P1	High mobility group protein B1;Putative high mobility group protein B1-like 1
Cluster -1268	RPL23A	60S ribosomal protein L23a
Cluster -1268	SNRPD3	Small nuclear ribonucleoprotein Sm D3
Cluster -1268	RELA	Transcription factor p65
Cluster -1268	G3BP2	Ras GTPase-activating protein-binding protein 2
Cluster -1268	CCT5	T-complex protein 1 subunit epsilon
Cluster -1268	EXOC7	Exocyst complex component 7
Cluster -1268	SLC1A4	Neutral amino acid transporter A
Cluster -1268	ARPC3	Actin-related protein 2/3 complex subunit 3
Cluster -1268	GUK1	Guanylate kinase
Cluster -1268	EIF2A	Eukaryotic translation initiation factor 2A;Eukaryotic translation initiation factor 2A, N-terminally processed
Cluster -1268	CORO1B	Coronin-1B
Cluster -1268	ENO2	Gamma-enolase;Enolase
Cluster -1268	STIP1	Stress-induced-phosphoprotein 1
Cluster -1268	EPN1	Epsin-1
Cluster -1268	UBE2L3	Ubiquitin-conjugating enzyme E2 L3
Cluster -1268	CASP3	Caspase-3;Caspase-3 subunit p17;Caspase-3 subunit p12
Cluster -1268	AKR1A1	Alcohol dehydrogenase [NADP(+)]

Cluster -1268	PTGR1	Prostaglandin reductase 1
Cluster -1268	ARPC5	Actin-related protein 2/3 complex subunit 5
Cluster -1268	LRRC47	Leucine-rich repeat-containing protein 47
Cluster -1268	UAP1	UDP-N-acetylhexosamine pyrophosphorylase;UDP-N-acetylgalactosamine pyrophosphorylase;UDP-N-acetylglucosamine pyrophosphorylase
Cluster -1268	KARS	Lysine--tRNA ligase
Cluster -1268	G3BP1	Ras GTPase-activating protein-binding protein 1
Cluster -1268	CAP1	Adenylyl cyclase-associated protein 1
Cluster -1268	PGD	6-phosphogluconate dehydrogenase, decarboxylating
Cluster -1268	CAPN1	Calpain-1 catalytic subunit
Cluster -1268	TALDO1	Transaldolase
Cluster -1268	RRBP1	Ribosome-binding protein 1
Cluster -1268	ILF3	Interleukin enhancer-binding factor 3
Cluster -1268	ABCE1	ATP-binding cassette sub-family E member 1
Cluster -1268	CNN1	Calponin-1;Calponin
Cluster -1268	CCT3	T-complex protein 1 subunit gamma
Cluster -1268	USP5	Ubiquitin carboxyl-terminal hydrolase 5
Cluster -1268	PABPC1	Polyadenylate-binding protein 1;Polyadenylate-binding protein
Cluster -1268	CMPK1	UMP-CMP kinase
Cluster -1268	PA2G4	Proliferation-associated protein 2G4
Cluster -1268	SERBP1	Plasminogen activator inhibitor 1 RNA-binding protein
Cluster -1268	DYNCH2	Cytoplasmic dynein 1 intermediate chain 2
Cluster -1268	HNRNPA1;HNRNPA1L2	Heterogeneous nuclear ribonucleoprotein A1;Heterogeneous nuclear ribonucleoprotein A1, N-terminally processed;Heterogeneous nuclear ribonucleoprotein A1-like 2
Cluster -1268	CTSL	Cathepsin L1;Cathepsin L1 heavy chain;Cathepsin L1 light chain
Cluster -1268	UBA2	SUMO-activating enzyme subunit 2
Cluster -1268	DPYSL3	Dihydropyrimidinase-related protein 3
Cluster -1268	HNRNPA2B1	Heterogeneous nuclear ribonucleoproteins A2/B1
Cluster -1268	ASMTL	N-acetylserotonin O-methyltransferase-like protein
Cluster -1268	SSB	Lupus La protein
Cluster -1268	TPT1	Translationally-controlled tumor protein
Cluster -1268	AKR1C1	Aldo-keto reductase family 1 member C1
Cluster -1268	PPF1A1	Liprin-alpha-1
Cluster -1268	MARCKS	Myristoylated alanine-rich C-kinase substrate
Cluster -1268	PRPSAP2	Phosphoribosyl pyrophosphate synthase-associated protein 2
Cluster -1268	HSPBP1	Hsp70-binding protein 1
Cluster -1268	MAP1A	Microtubule-associated protein 1A;MAP1A heavy chain;MAP1 light chain LC2

Cluster -1268	LPXN	Leupaxin
Cluster -1268	FERMT2	Fermitin family homolog 2
Cluster -1268	SRSF4;SRSF6	Serine/arginine-rich splicing factor 4;Serine/arginine-rich splicing factor 6
Cluster -1268	PPP1CB	Serine/threonine-protein phosphatase PP1-beta catalytic subunit;Serine/threonine-protein phosphatase
Cluster -1268	SEC31A	Protein transport protein Sec31A
Cluster -1268	RPS12	40S ribosomal protein S12
Cluster -1268	ANP32B	Acidic leucine-rich nuclear phosphoprotein 32 family member B
Cluster -1268	PURB	Transcriptional activator protein Pur-beta
Cluster -1268	FAM21A;FAM21 C	WASH complex subunit FAM21A;WASH complex subunit FAM21C
Cluster -1268	PAK2	Serine/threonine-protein kinase PAK 2;PAK-2p27;PAK-2p34
Cluster -1268	TP53I3	Quinone oxidoreductase PIG3
Cluster -1268	ENOPH1	Enolase-phosphatase E1
Cluster -1268	ME1	NADP-dependent malic enzyme
Cluster -1268	UBXN4	UBX domain-containing protein 4
Cluster -1268	ANP32A	Acidic leucine-rich nuclear phosphoprotein 32 family member A
Cluster -1268	PDCD5	Programmed cell death protein 5
Cluster -1268	UBE2D3;UBE2D 2;UBE2D4;UBE2 D1	Ubiquitin-conjugating enzyme E2 D3;Ubiquitin-conjugating enzyme E2 D2;Ubiquitin-conjugating enzyme E2 D4;Ubiquitin-conjugating enzyme E2 D1
Cluster -1268	TMEM189-UBE2V1;UBE2V 1	Ubiquitin-conjugating enzyme E2 variant 1
Cluster -1268	STRAP	Serine-threonine kinase receptor-associated protein
Cluster -1268	UBQLN1	Ubiquilin-1
Cluster -1268	EHD4	EH domain-containing protein 4
Cluster -1268	YWHAQ	14-3-3 protein theta
Cluster -1268	CLIC1	Chloride intracellular channel protein 1
Cluster -1268	BIN1	Myc box-dependent-interacting protein 1
Cluster -1268	EHD1	EH domain-containing protein 1
Cluster -1268	COPZ2	Coatomer subunit zeta-2
Cluster -1268	PSMD9	26S proteasome non-ATPase regulatory subunit 9
Cluster -1268	LTA4H	Leukotriene A-4 hydrolase
Cluster -1268	NSFL1C	NSFL1 cofactor p47
Cluster -1268	ASL	Argininosuccinate lyase
Cluster -1268	CACYBP	Calcyclin-binding protein
Cluster -1268	GSTM2	Glutathione S-transferase Mu 2
Cluster -1268	ASS1	Argininosuccinate synthase
Cluster -1268	CDV3	Protein CDV3 homolog

Cluster -1268	CTTN	Src substrate cortactin
Cluster -1268	DUSP3	Dual specificity protein phosphatase 3
Cluster -1268	GCLM	Glutamate--cysteine ligase regulatory subunit
Cluster -1268	TROVE2	60 kDa SS-A/Ro ribonucleoprotein
Cluster -1268	CAPN2	Calpain-2 catalytic subunit
Cluster -1268	ANXA1	Annexin A1;Annexin
Cluster -1268	COTL1	Coactosin-like protein
Cluster -1268	RNH1	Ribonuclease inhibitor
Cluster -1268	TXNL1	Thioredoxin-like protein 1
Cluster -1268	GPX1	Glutathione peroxidase 1;Glutathione peroxidase
Cluster -1268	EIF3K	Eukaryotic translation initiation factor 3 subunit K
Cluster -1268	MYL9	Myosin regulatory light polypeptide 9
Cluster -1268	CORO1C	Coronin-1C;Coronin
Cluster -1268	TNKS1BP1	182 kDa tankyrase-1-binding protein
Cluster -1268	PSMB5	Proteasome subunit beta type-5
Cluster -1268	CRK	Adapter molecule crk
Cluster -1268	TPM4	Tropomyosin alpha-4 chain
Cluster -1268	IQGAP1	Ras GTPase-activating-like protein IQGAP1
Cluster -1268	YWHAG	14-3-3 protein gamma;14-3-3 protein gamma, N-terminally processed
Cluster -1268	MSRA	Mitochondrial peptide methionine sulfoxide reductase
Cluster -1268	PPP1CA	Serine/threonine-protein phosphatase PP1-alpha catalytic subunit;Serine/threonine-protein phosphatase
Cluster -1268	DNPEP	Aspartyl aminopeptidase
Cluster -1268	KATNAL2	Katanin p60 ATPase-containing subunit A-like 2
Cluster -1268	EIF4H	Eukaryotic translation initiation factor 4H
Cluster -1268	RAD23B	UV excision repair protein RAD23 homolog B
Cluster -1268	08-set	Septin-8
Cluster -1268	MAP1B	Microtubule-associated protein 1B;MAP1B heavy chain;MAP1 light chain LC1
Cluster -1268	CAPZA2	F-actin-capping protein subunit alpha-2
Cluster -1268	PEPD	Xaa-Pro dipeptidase
Cluster -1268	DNPH1	2-deoxynucleoside 5-phosphate N-hydrolase 1
Cluster -1268	HN1	Hematological and neurological expressed 1 protein;Hematological and neurological expressed 1 protein, N-terminally processed
Cluster -1268	PITPNA	Phosphatidylinositol transfer protein alpha isoform
Cluster -1268	PSMB1	Proteasome subunit beta type-1
Cluster -1268	ACTR3	Actin-related protein 3
Cluster -1268	WARS	Tryptophan--tRNA ligase, cytoplasmic;T1-TrpRS;T2-TrpRS
Cluster -1268	PLS3	Plastin-3
Cluster -1268	ACTN1	Alpha-actinin-1



Cluster -1268	ACTN4	Alpha-actinin-4
Cluster -1268	UGP2	UTP--glucose-1-phosphate uridylyltransferase
Cluster -1268	ARPC2	Actin-related protein 2/3 complex subunit 2
Cluster -1268	PALLD	Palladin
Cluster -1268	CNN3	Calponin-3
Cluster -1268	DSTN	Destrin
Cluster -1268	ESD	S-formylglutathione hydrolase
Cluster -1268	MGLL	Monoglyceride lipase
Cluster -1268	LMO7	LIM domain only protein 7
Cluster -1268	PSAT1	Phosphoserine aminotransferase
Cluster -1268	KTN1	Kinectin
Cluster -1268	UBE2H	Ubiquitin-conjugating enzyme E2 H
Cluster -1268	SNRPB2	U2 small nuclear ribonucleoprotein B
Cluster -1268	LMCD1	LIM and cysteine-rich domains protein 1
Cluster -1268	VAT1	Synaptic vesicle membrane protein VAT-1 homolog
Cluster -1268	LASP1	LIM and SH3 domain protein 1
Cluster -1268	YBX1	Nuclease-sensitive element-binding protein 1
Cluster -1268	PSMA1	Proteasome subunit alpha type-1;Proteasome subunit alpha type
Cluster -1268	NCL	Nucleolin
Cluster -1268	ARCN1	Coatomer subunit delta
Cluster -1268	PGAM1	Phosphoglycerate mutase 1
Cluster -1268	HSPB7;DKFZp779D0968	Heat shock protein beta-7
Cluster -1268	BTF3L4	Transcription factor BTF3 homolog 4;Transcription factor BTF3
Cluster -1268	PGM2	Phosphoglucomutase-2
Cluster -1268	PPA1	Inorganic pyrophosphatase
Cluster -1268	ARHGAP1	Rho GTPase-activating protein 1
Cluster -1268	TAGLN2	Transgelin-2
Cluster -1268	PSMA3	Proteasome subunit alpha type-3
Cluster -1268	UCHL1	Ubiquitin carboxyl-terminal hydrolase isozyme L1;Ubiquitin carboxyl-terminal hydrolase
Cluster -1268	YKT6	Synaptobrevin homolog YKT6
Cluster -1268	PTGES3	Prostaglandin E synthase 3
Cluster -1268	NACA	Nascent polypeptide-associated complex subunit alpha, muscle-specific form;Nascent polypeptide-associated complex subunit alpha
Cluster -1268	TAGLN	Transgelin
Cluster -1268	EEF1B2	Elongation factor 1-beta
Cluster -1268	ST13;ST13P4;ST13P5	Hsc70-interacting protein;Putative protein FAM10A4;Putative protein FAM10A5
Cluster -1268	ABRACL	Costars family protein ABRACL

Cluster -1268	MAPRE1	Microtubule-associated protein RP/EB family member 1
Cluster -1268	RPS21	40S ribosomal protein S21
Cluster -1268	PPIA	Peptidyl-prolyl cis-trans isomerase A;Peptidyl-prolyl cis-trans isomerase A, N-terminally processed;Peptidyl-prolyl cis-trans isomerase
Cluster -1268	YWHAE	14-3-3 protein epsilon
Cluster -1268	TPI1	Triosephosphate isomerase
Cluster -1268	PRDX2	Peroxiredoxin-2
Cluster -1268	YWHAB	14-3-3 protein beta/alpha;14-3-3 protein beta/alpha, N-terminally processed
Cluster -1268	ALDOA	Fructose-bisphosphate aldolase A;Fructose-bisphosphate aldolase
Cluster -1268	SEPT11;SEPT6	Septin-11;Septin-6
Cluster -1268	PGM1	Phosphoglucomutase-1
Cluster -1268	DBI	Acyl-CoA-binding protein
Cluster -1268	RDX	Radixin
Cluster -1268	VPS29	Vacuolar protein sorting-associated protein 29
Cluster -1268	PARVA	Alpha-parvin
Cluster -1268	UBE2N;UBE2NL	Ubiquitin-conjugating enzyme E2 N;Putative ubiquitin-conjugating enzyme E2 N-like
Cluster -1268	EIF2S3;EIF2S3L	Eukaryotic translation initiation factor 2 subunit 3;Putative eukaryotic translation initiation factor 2 subunit 3-like protein
Cluster -1268	HSPA4	Heat shock 70 kDa protein 4
Cluster -1268	TKT	Transketolase
Cluster -1268	PSMA7;PSMA8	Proteasome subunit alpha type-7;Proteasome subunit alpha type-7-like
Cluster -1268	NPEPPS	Puromycin-sensitive aminopeptidase
Cluster -1268	ARPC4;ARPC4-TLL3	Actin-related protein 2/3 complex subunit 4
Cluster -1268	NANS	Sialic acid synthase
Cluster -1268	STMN1	Stathmin
Cluster -1268	GYG1	Glycogenin-1
Cluster -1268	RBBP4	Histone-binding protein RBBP4
Cluster -1268	GDI2	Rab GDP dissociation inhibitor beta
Cluster -1268	TXNDC17	Thioredoxin domain-containing protein 17
Cluster -1268	NUTF2	Nuclear transport factor 2
Cluster -1268	PITPNB	Phosphatidylinositol transfer protein beta isoform
Cluster -1268	UBE2I	SUMO-conjugating enzyme UBC9
Cluster -1268	AHNAK2	Protein AHNAK2
Cluster -1268	PRDX6	Peroxiredoxin-6
Cluster -1268	LDHB	L-lactate dehydrogenase B chain;L-lactate dehydrogenase
Cluster -1268	TXN	Thioredoxin
Cluster -1268	PRDX1	Peroxiredoxin-1

Cluster -1268	YWHAZ	14-3-3 protein zeta/delta
Cluster -1268	HDGF	Hepatoma-derived growth factor
Cluster -1268	VCL	Vinculin
Cluster -1268	PYGB	Glycogen phosphorylase, brain form
Cluster -1268	CALM2;CALM3; CALM1	N/A
Cluster -1268	GSTP1	Glutathione S-transferase P
Cluster -1268	CFL1	Cofilin-1
Cluster -1268	LDHA	L-lactate dehydrogenase A chain
Cluster -1268	ABHD14B	Alpha/beta hydrolase domain-containing protein 14B
Cluster -1268	GOT1	Aspartate aminotransferase, cytoplasmic
Cluster -1268	RALA	Ras-related protein Ral-A
Cluster -1268	PFN1	Profilin-1
Cluster -1268	CSTB	Cystatin-B
Cluster -1268	EIF1;EIF1B	Eukaryotic translation initiation factor 1;Eukaryotic translation initiation factor 1b
Cluster -1268	TCEB1	Transcription elongation factor B polypeptide 1
Cluster -1268	TBCA	Tubulin-specific chaperone A
Cluster -1268	GDI1	Rab GDP dissociation inhibitor alpha
Cluster -1268	PSMA6	Proteasome subunit alpha type-6;Proteasome subunit alpha type
Cluster -1268	TARS	Threonine--tRNA ligase, cytoplasmic
Cluster -1268	PHPT1	14 kDa phosphohistidine phosphatase
Cluster -1268	PURA	Transcriptional activator protein Pur-alpha
Cluster -1268	PSMB3	Proteasome subunit beta type-3
Cluster -1268	PEBP1	Phosphatidylethanolamine-binding protein 1;Hippocampal cholinergic neurostimulating peptide
Cluster -1268	CAST	Calpastatin
Cluster -1268	ADH5	Alcohol dehydrogenase class-3
Cluster -1268	RNPEP	Aminopeptidase B
Cluster -1268	SGTA	Small glutamine-rich tetratricopeptide repeat-containing protein alpha
Cluster -1268	SF1	Splicing factor 1
Cluster -1268	PSME1	Proteasome activator complex subunit 1
Cluster -1268	LGALS3	Galectin-3;Galectin
Cluster -1268	SH3BGRL	SH3 domain-binding glutamic acid-rich-like protein
Cluster -1268	CLTB	Clathrin light chain B
Cluster -1268	HEBP1	Heme-binding protein 1
Cluster -1268	NQO1	NAD(P)H dehydrogenase [quinone] 1
Cluster -1268	PDLIM1	PDZ and LIM domain protein 1
Cluster -1268	UBE2A	Ubiquitin-conjugating enzyme E2 A
Cluster -1268	EZR	Ezrin

Cluster -1268	NUDC	Nuclear migration protein nudC
Cluster -1268	PARK7	Protein deglycase DJ-1
Cluster -1268	ZC3H15	Zinc finger CCCH domain-containing protein 15
Cluster -1268	TWF1	Twinfilin-1
Cluster -1268	BTF3	Transcription factor BTF3
Cluster -1268	AHSA1	Activator of 90 kDa heat shock protein ATPase homolog 1
Cluster -1268	LSM1	U6 snRNA-associated Sm-like protein LSM1
Cluster -1268	PXN	Paxillin
Cluster -1268	GPI	Glucose-6-phosphate isomerase
Cluster -1268	DBNL	Drebrin-like protein
Cluster -1268	SH3BGRL3	SH3 domain-binding glutamic acid-rich-like protein 3
Cluster -1268	TPM3	N/A
Cluster -1268	MTPN	Myotrophin
Cluster -1268	EEA1	Early endosome antigen 1
Cluster -1268	OLA1	Obg-like ATPase 1
Cluster -1268	SWAP70	Switch-associated protein 70
Cluster -1268	PSMB8;PSM8	Proteasome subunit beta type-8;Proteasome subunit beta type
Cluster -1268	EPS8	Epidermal growth factor receptor kinase substrate 8
Cluster -1268	GSTM3	Glutathione S-transferase Mu 3
Cluster -1268	SYNC	Syncoilin
Cluster -1268	TMSB4X	Thymosin beta-4;Hematopoietic system regulatory peptide
Cluster -1268	PSMA5	Proteasome subunit alpha type-5
Cluster -1268	UCHL3	Ubiquitin carboxyl-terminal hydrolase isozyme L3;Ubiquitin carboxyl-terminal hydrolase
Cluster -1268	CBR1	Carbonyl reductase [NADPH] 1
Cluster -1268	PTMS	Parathymosin
Cluster -1268	SNRPA	U1 small nuclear ribonucleoprotein A
Cluster -1268	GSS	Glutathione synthetase
Cluster -1268	TPD52L2	Tumor protein D54
Cluster -1268	WDFY1	WD repeat and FYVE domain-containing protein 1
Cluster -1268	RSU1	Ras suppressor protein 1
Cluster -1268	PGLS	6-phosphogluconolactonase
Cluster -1268	ATOX1	Copper transport protein ATOX1
Cluster -1268	PPP1R7	Protein phosphatase 1 regulatory subunit 7
Cluster -1268	EIF4A2	Eukaryotic initiation factor 4A-II;Eukaryotic initiation factor 4A-II, N-terminally processed
Cluster -1268	GLO1	Lactoylglutathione lyase
Cluster -1268	SET;SETSIP	Protein SET;Protein SETSIP
Cluster -1268	NME2;NME1-NME2;NME1	Nucleoside diphosphate kinase B;Nucleoside diphosphate kinase
Cluster -1268	AK1	Adenylate kinase isoenzyme 1
Cluster -1268	SOD1	Superoxide dismutase [Cu-Zn]

Cluster -1268	PNP	Purine nucleoside phosphorylase
Cluster -1268	PAWR	PRKC apoptosis WT1 regulator protein
Cluster -1268	RAP1GDS1	Rap1 GTPase-GDP dissociation stimulator 1
Cluster -1268	SEC24D	Protein transport protein Sec24D
Cluster -1268	PPP2R1A	Serine/threonine-protein phosphatase 2A 65 kDa regulatory subunit A alpha isoform
Cluster -1268	NAMPT	Nicotinamide phosphoribosyltransferase
Cluster -1268	09-set	Septin-9
Cluster -1268	LPP	Lipoma-preferred partner
Cluster -1268	FKBP4	Peptidyl-prolyl cis-trans isomerase FKBP4;Peptidyl-prolyl cis-trans isomerase FKBP4, N-terminally processed
Cluster -1268	LMNA	Prelamin-A/C;Lamin-A/C
Cluster -1268	HSP90AB1	Heat shock protein HSP 90-beta
Cluster -1268	FUBP1	Far upstream element-binding protein 1
Cluster -1268	GNB2L1	Guanine nucleotide-binding protein subunit beta-2-like 1;Guanine nucleotide-binding protein subunit beta-2-like 1, N-terminally processed
Cluster -1268	HNRNPDL	Heterogeneous nuclear ribonucleoprotein D-like
Cluster -1268	DCTN3	Dynactin subunit 3
Cluster -1268	CAND1	Cullin-associated NEDD8-dissociated protein 1
Cluster -1268	PAFAH1B2	Platelet-activating factor acetylhydrolase IB subunit beta
Cluster -1268	UROD	Uroporphyrinogen decarboxylase
Cluster -1268	BLVRA	Biliverdin reductase A
Cluster -1268	G6PD	Glucose-6-phosphate 1-dehydrogenase
Cluster -1268	DDB1	DNA damage-binding protein 1
Cluster -1268	GBE1	1,4-alpha-glucan-branching enzyme
Cluster -1268	STAM2	Signal transducing adapter molecule 2
Cluster -1268	PSMD10	26S proteasome non-ATPase regulatory subunit 10
Cluster -1268	RAN	GTP-binding nuclear protein Ran
Cluster -1268	PLEC	Plectin
Cluster -1268	RPL12	60S ribosomal protein L12
Cluster -1268	FLNC	Filamin-C
Cluster -1268	EIF3B	Eukaryotic translation initiation factor 3 subunit B
Cluster -1268	UBA1	Ubiquitin-like modifier-activating enzyme 1
Cluster -1268	RPSA	40S ribosomal protein SA
Cluster -1268	SYNCRIP	Heterogeneous nuclear ribonucleoprotein Q
Cluster -1268	NRBP1	Nuclear receptor-binding protein
Cluster -1268	HSP90AB2P	Putative heat shock protein HSP 90-beta 2
Cluster -1268	PPP2CA;PPP2CB	Serine/threonine-protein phosphatase 2A catalytic subunit alpha isoform;Serine/threonine-protein phosphatase 2A catalytic subunit beta isoform
Cluster -1268	EIF4A1	Eukaryotic initiation factor 4A-I

Cluster -1268	LAMTOR5	Ragulator complex protein LAMTOR5
Cluster -1268	FUS	RNA-binding protein FUS
Cluster -1268	EIF3I	Eukaryotic translation initiation factor 3 subunit I
Cluster -1268	PLAA	Phospholipase A-2-activating protein
Cluster -1268	PLBD2	Putative phospholipase B-like 2;Putative phospholipase B-like 2 32 kDa form;Putative phospholipase B-like 2 45 kDa form
Cluster -1268	RANBP1	Ran-specific GTPase-activating protein
Cluster -1268	DDX39B	Spliceosome RNA helicase DDX39B
Cluster -1268	CNN2	Calponin-2;Calponin
Cluster -1268	DAB2	Disabled homolog 2
Cluster -1268	HINT1	Histidine triad nucleotide-binding protein 1
Cluster -1268	PKM	Pyruvate kinase PKM;Pyruvate kinase
Cluster -1268	ARL3	ADP-ribosylation factor-like protein 3
Cluster -1268	MOB1B;MOB1A	MOB kinase activator 1B;MOB kinase activator 1A
Cluster -1268	SGCB	Beta-sarcoglycan
Cluster -1268	BAX	Apoptosis regulator BAX
Cluster -1268	ARF1	ADP-ribosylation factor 1
Cluster -1268	SRSF7	Serine/arginine-rich splicing factor 7
Cluster -1268	ASNA1	ATPase ASNA1
Cluster -1268	NNMT	Nicotinamide N-methyltransferase
Cluster -1268	AP1G1	AP-1 complex subunit gamma-1
Cluster -1268	NARS	Asparagine--tRNA ligase, cytoplasmic
Cluster -1268	DCTN2	Dynactin subunit 2
Cluster -1268	AP1B1	AP-1 complex subunit beta-1
Cluster -1268	EEF2	Elongation factor 2
Cluster -1268	PSPH	Phosphoserine phosphatase
Cluster -1268	WDR1	WD repeat-containing protein 1
Cluster -1268	TPM4	Tropomyosin alpha-4 chain
Cluster -1268	DNM1L	Dynamin-1-like protein
Cluster -1268	FLNA	Filamin-A
Cluster -1268	TLN1	Talin-1
Cluster -1268	AKAP2	A-kinase anchor protein 2
Cluster -1268	HNRNPD	Heterogeneous nuclear ribonucleoprotein D0
Cluster -1268	AHNAK	Neuroblast differentiation-associated protein AHNAK
Cluster -1268	CALD1	Caldesmon
Cluster -1268	EEF1D	Elongation factor 1-delta
Cluster -1268	ZYX	Zyxin
Cluster -1268	CSRP1	Cysteine and glycine-rich protein 1
Cluster -1268	CLIC4	Chloride intracellular channel protein 4
Cluster -1268	S100A11	Protein S100-A11;Protein S100-A11, N-terminally processed

Cluster -1268	MAP4	Microtubule-associated protein 4;Microtubule-associated protein
Cluster -1268	RAB11FIP5	Rab11 family-interacting protein 5
Cluster -1268	MSN	Moesin
Cluster -1268	LIMA1	LIM domain and actin-binding protein 1
Cluster -1268	FAM129B	Niban-like protein 1
Cluster -1268	UBLCP1	Ubiquitin-like domain-containing CTD phosphatase 1
Cluster -1268	FAM114A1	Protein NOXP20
Cluster -1268	AKAP12	A-kinase anchor protein 12
Cluster -1268	FKBP3	Peptidyl-prolyl cis-trans isomerase FKBP3
Cluster -1268	FKBP1A	Peptidyl-prolyl cis-trans isomerase FKBP1A;Peptidyl-prolyl cis-trans isomerase
Cluster -1268	BID	BH3-interacting domain death agonist;BH3-interacting domain death agonist p15;BH3-interacting domain death agonist p13;BH3-interacting domain death agonist p11
Cluster -1268	VCP	Transitional endoplasmic reticulum ATPase
Cluster -1268	PSMB2	Proteasome subunit beta type-2
Cluster -1268	CAPZB	F-actin-capping protein subunit beta
Cluster -1268	AKR1B1	Aldose reductase
Cluster -1268	PKM	Pyruvate kinase PKM;Pyruvate kinase
Cluster -1268	HMOX1	Heme oxygenase 1
Cluster -1268	LGALS1	Galectin-1
Cluster -1268	DDAH2	N(G),N(G)-dimethylarginine dimethylaminohydrolase 2
Cluster -1268	PLIN3	Perilipin-3
Cluster -1268	CARS	Cysteine--tRNA ligase, cytoplasmic
Cluster -1268	HARS	Histidine--tRNA ligase, cytoplasmic
Cluster -1268	DDT;DDTL	D-dopachrome decarboxylase;D-dopachrome decarboxylase-like protein
Cluster -1268	TXNRD1	Thioredoxin reductase 1, cytoplasmic
Cluster -1268	MDH1	Malate dehydrogenase, cytoplasmic;Malate dehydrogenase
Cluster -1268	ARHGDI1	Rho GDP-dissociation inhibitor 1
Cluster -1268	MIF	Macrophage migration inhibitory factor
Cluster -1268	IPO5	Importin-5
Cluster -1268	VPS25	Vacuolar protein-sorting-associated protein 25
Cluster -1268	EIF4E	Eukaryotic translation initiation factor 4E
Cluster -1268	ENSA	Alpha-endosulfine
Cluster -1268	PSMA2	Proteasome subunit alpha type-2;Proteasome subunit alpha type
Cluster -1268	PTBP1	Polypyrimidine tract-binding protein 1
Cluster -1268	SPTAN1	Spectrin alpha chain, non-erythrocytic 1
Cluster -1268	SPTBN1	Spectrin beta chain, non-erythrocytic 1
Cluster -1268	CAPZA1	F-actin-capping protein subunit alpha-1
Cluster -1268	ENO1	Alpha-enolase;Enolase



Cluster -1268	PGK1	Phosphoglycerate kinase 1
Cluster -1268	DPYSL2	Dihydropyrimidinase-related protein 2
Cluster -1268	PCMT1	Protein-L-isoaspartate(D-aspartate) O-methyltransferase;Protein-L-isoaspartate O-methyltransferase
Cluster -1268	CAPNS1	Calpain small subunit 1
Cluster -1268	PDCD6IP	Programmed cell death 6-interacting protein
Cluster -1268	HSPA8	Heat shock cognate 71 kDa protein
Cluster -1268	VIM	Vimentin
Cluster -1268	HSP90AA1	Heat shock protein HSP 90-alpha
Cluster -1268	EIF5B	Eukaryotic translation initiation factor 5B
Cluster -1268	EIF5A;EIF5AL1; EIF5A2	Eukaryotic translation initiation factor 5A-1;Eukaryotic translation initiation factor 5A;Eukaryotic translation initiation factor 5A-1-like;Eukaryotic translation initiation factor 5A-2
Cluster -1268	TWF2	Twinfilin-2
Cluster -1268	MAPK1	Mitogen-activated protein kinase 1
Cluster -1268	EIF2S1	Eukaryotic translation initiation factor 2 subunit 1
Cluster -1268	FARSA	Phenylalanine--tRNA ligase alpha subunit
Cluster -1268	HSPA1A;HSPA1 B	Heat shock 70 kDa protein 1A;Heat shock 70 kDa protein 1B
Cluster -1268	07-set	Septin-7
Cluster -1268	ERH	Enhancer of rudimentary homolog
Cluster -1268	RPL7A	60S ribosomal protein L7a
Cluster -1268	TCP11L1	T-complex protein 11-like protein 1
Cluster -1268	S100A6	Protein S100-A6;Protein S100
Cluster -1268	GIPC1	PDZ domain-containing protein GIPC1
Cluster -1268	GNPDA1	Glucosamine-6-phosphate isomerase 1;Glucosamine-6-phosphate isomerase
Cluster -1268	ACOT7	Cytosolic acyl coenzyme A thioester hydrolase
Cluster -1268	TPMT	Thiopurine S-methyltransferase
Cluster -1268	CLIP1	CAP-Gly domain-containing linker protein 1
Cluster -1268	DDX42	ATP-dependent RNA helicase DDX42
Cluster -1268	BLVRB	Flavin reductase (NADPH)
Cluster -1268	HIST2H3PS2	Histone H3
Cluster -1268	CDC42	Cell division control protein 42 homolog
Cluster -1268	TSN	Translin
Cluster -1268	LSM8	U6 snRNA-associated Sm-like protein LSm8
Cluster -1268	PRKACB	cAMP-dependent protein kinase catalytic subunit beta
Cluster -1268	ETF1	Eukaryotic peptide chain release factor subunit 1
Cluster -1268	SRSF1	Serine/arginine-rich splicing factor 1
Cluster -1268	SYNPO2	Synaptopodin-2
Cluster -1268	HSPH1	Heat shock protein 105 kDa

Cluster -1268	MAT2A	S-adenosylmethionine synthase isoform type-2
Cluster -1268	STX4	Syntaxin-4
Cluster -1268	HPRT1	Hypoxanthine-guanine phosphoribosyltransferase
Cluster -1274	TBCB	Tubulin-folding cofactor B
Cluster -1274	CTNNA2	Catenin alpha-2
Cluster -1274	SRRT	Serrate RNA effector molecule homolog
Cluster -1274	CLPTM1	Cleft lip and palate transmembrane protein 1
Cluster -1274	TRAM2	Translocating chain-associated membrane protein 2
Cluster -1274	ALYREF	THO complex subunit 4
Cluster -1274	SNRPD2	Small nuclear ribonucleoprotein Sm D2
Cluster -1274	CIRBP	Cold-inducible RNA-binding protein
Cluster -1274	RPS10;RPS10P5	40S ribosomal protein S10;Putative 40S ribosomal protein S10-like
Cluster -1274	STX12	Syntaxin-12
Cluster -1274	SNAPIN	SNARE-associated protein Snapin
Cluster -1274	STIM1	Stromal interaction molecule 1
Cluster -1274	CTNNA1	Catenin alpha-1
Cluster -1274	CTBP1	C-terminal-binding protein 1
Cluster -1274	AKAP9	A-kinase anchor protein 9
Cluster -1274	CBFB	Core-binding factor subunit beta
Cluster -1274	GLTP	Glycolipid transfer protein
Cluster -1274	DNAJA2	DnaJ homolog subfamily A member 2
Cluster -1274	RAB35	Ras-related protein Rab-35
Cluster -1274	ABR;BCR	Active breakpoint cluster region-related protein;Breakpoint cluster region protein
Cluster -1274	ATP6V1F	V-type proton ATPase subunit F
Cluster -1274	GSTO1	Glutathione S-transferase omega-1
Cluster -1274	MAP2K2	Dual specificity mitogen-activated protein kinase kinase 2
Cluster -1274	GSR	Glutathione reductase, mitochondrial
Cluster -1274	EPB41L2	Band 4.1-like protein 2
Cluster -1274	BAG3	BAG family molecular chaperone regulator 3
Cluster -1274	EIF4B	Eukaryotic translation initiation factor 4B
Cluster -1274	MAT2B	Methionine adenosyltransferase 2 subunit beta
Cluster -1274	KHDRBS1	KH domain-containing, RNA-binding, signal transduction-associated protein 1
Cluster -1274	PRPSAP1	Phosphoribosyl pyrophosphate synthase-associated protein 1
Cluster -1274	TFG	Protein TFG
Cluster -1274	SGSH	N-sulphoglucosamine sulphohydrolase
Cluster -1274	AGL	Glycogen debranching enzyme;4-alpha-glucanotransferase;Amylo-alpha-1,6-glucosidase
Cluster -1274	AHCY	Adenosylhomocysteinase
Cluster -1274	BOLA2	BolA-like protein 2

Cluster -1274	ILF2	Interleukin enhancer-binding factor 2
Cluster -1274	IDH1	Isocitrate dehydrogenase [NADP] cytoplasmic
Cluster -1274	ARPC5L	Actin-related protein 2/3 complex subunit 5-like protein
Cluster -1274	LUC7L2	Putative RNA-binding protein Luc7-like 2
Cluster -1274	FN3KRP	Ketosamine-3-kinase
Cluster -1274	PSMD4	26S proteasome non-ATPase regulatory subunit 4
Cluster -1274	PSMB7	Proteasome subunit beta type-7
Cluster -1274	ADSS	Adenylosuccinate synthetase isozyme 2
Cluster -1274	NMT1	Glycylpeptide N-tetradecanoyltransferase 1
Cluster -1274	PSMA4	Proteasome subunit alpha type-4;Proteasome subunit alpha type;Proteasome subunit beta type
Cluster -1274	TIPRL	TIP41-like protein
Cluster -1274	NUDT5	ADP-sugar pyrophosphatase
Cluster -1274	SCAMP2	Secretory carrier-associated membrane protein 2
Cluster -1274	ADPRHL2	Poly(ADP-ribose) glycohydrolase ARH3
Cluster -1274	MAGOH;MAGO HB	Protein mago nashi homolog;Protein mago nashi homolog 2
Cluster -1274	NDUFV1	NADH dehydrogenase [ubiquinone] flavoprotein 1, mitochondrial
Cluster -1274	CKB	Creatine kinase B-type
Cluster -1274	TNPO1	Transportin-1
Cluster -1241	GPX8	Probable glutathione peroxidase 8;Glutathione peroxidase
Cluster -1241	SEC23IP	SEC23-interacting protein
Cluster -1241	COMMD3;COM MD3-BMI1	COMM domain-containing protein 3
Cluster -1241	RAB8A	Ras-related protein Rab-8A
Cluster -1241	ZNFX1	NFX1-type zinc finger-containing protein 1
Cluster -1241	PMVK	Phosphomevalonate kinase
Cluster -1269	TPBG	Trophoblast glycoprotein
Cluster -1269	LAMB1	Laminin subunit beta-1
Cluster -1269	DNAH9	Dynein heavy chain 9, axonemal
Cluster -1269	THOC1	THO complex subunit 1
Cluster -1269	GALC	Galactocerebrosidase
Cluster -1269	ZC3H14	Zinc finger CCCH domain-containing protein 14
Cluster -1269	TM9SF4	Transmembrane 9 superfamily member 4
Cluster -1269	RPL38	60S ribosomal protein L38
Cluster -1269	TRPV2	Transient receptor potential cation channel subfamily V member 2
Cluster -1269	POFUT1	GDP-fucose protein O-fucosyltransferase 1
Cluster -1269	ALDH7A1	Alpha-aminoadipic semialdehyde dehydrogenase
Cluster -1269	MAPK3	Mitogen-activated protein kinase 3;Mitogen-activated protein kinase
Cluster -1269	FARP1	FERM, RhoGEF and pleckstrin domain-containing protein 1

Cluster -1269	THUMPD1	THUMP domain-containing protein 1
Cluster -1269	STRN4	Striatin-4
Cluster -1269	DCPS	m7GpppX diphosphatase
Cluster -1269	MRC2	C-type mannose receptor 2
Cluster -1269	DNAJC7	DnaJ homolog subfamily C member 7
Cluster -1269	ERC1	ELKS/Rab6-interacting/CAST family member 1
Cluster -1269	UFD1L	Ubiquitin fusion degradation protein 1 homolog
Cluster -1269	CTSK	Cathepsin K
Cluster -1269	TSNAX;DISC1	Translin-associated protein X
Cluster -1269	GNA11	Guanine nucleotide-binding protein subunit alpha-11
Cluster -1269	PLXNA4;PLXNA1	Plexin-A4;Plexin-A1
Cluster -1269	GLT8D2	Glycosyltransferase 8 domain-containing protein 2
Cluster -1269	CHP1	Calcineurin B homologous protein 1
Cluster -1269	ZFPL1	Zinc finger protein-like 1
Cluster -1269	PSMD14	26S proteasome non-ATPase regulatory subunit 14
Cluster -1269	NDUFA10	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 10, mitochondrial
Cluster -1269	IMMT	MICOS complex subunit MIC60
Cluster -1269	WDR12	Ribosome biogenesis protein WDR12
Cluster -1269	APP	Amyloid beta A4 protein;N-APP;Soluble APP-alpha;Soluble APP-beta;C99;Beta-amyloid protein 42;Beta-amyloid protein 40;C83;P3(42);P3(40);C80;Gamma-secretase C-terminal fragment 59;Gamma-secretase C-terminal fragment 57;Gamma-secretase C-terminal fragment 50;C31
Cluster -1269	ELMOD2	ELMO domain-containing protein 2
Cluster -1269	ARF5	ADP-ribosylation factor 5
Cluster -1269	FTSJ3	pre-rRNA processing protein FTSJ3
Cluster -1269	CCAR2	Cell cycle and apoptosis regulator protein 2
Cluster -1269	NUP188	Nucleoporin NUP188 homolog
Cluster -1269	MARS	Methionine--tRNA ligase, cytoplasmic
Cluster -1269	MCM4	DNA replication licensing factor MCM4
Cluster -1269	TOR1A	Torsin-1A
Cluster -1269	IMPAD1	Inositol monophosphatase 3
Cluster -1269	UFSP2	Ufm1-specific protease 2
Cluster -1269	AHCYL1	Putative adenosylhomocysteinase 2
Cluster -1269	CAD	CAD protein;Glutamine-dependent carbamoyl-phosphate synthase;Aspartate carbamoyltransferase;Dihydroorotase
Cluster -1269	CISD2	CDGSH iron-sulfur domain-containing protein 2
Cluster -1269	DCAF7	DDB1- and CUL4-associated factor 7
Cluster -1269	ATP6V0A1	V-type proton ATPase 116 kDa subunit a isoform 1;V-type proton ATPase subunit a
Cluster -1269	CAV1	Caveolin-1;Caveolin

Cluster -1269	PTGS1	Prostaglandin G/H synthase 1
Cluster -1269	RAB9A	Ras-related protein Rab-9A
Cluster -1269	RBM12B	RNA-binding protein 12B
Cluster -1269	MLST8	Target of rapamycin complex subunit LST8
Cluster -1269	FUT8	Alpha-(1,6)-fucosyltransferase
Cluster -1269	DDX50	ATP-dependent RNA helicase DDX50
Cluster -1269	MAGT1	Magnesium transporter protein 1
Cluster -1269	RBM17	Splicing factor 45
Cluster -1269	ATP6AP2	Renin receptor
Cluster -1269	DLAT	Dihydrolipoyllysine-residue acetyltransferase component of pyruvate dehydrogenase complex, mitochondrial;Acetyltransferase component of pyruvate dehydrogenase complex
Cluster -1269	CLASP1	CLIP-associating protein 1
Cluster -1269	MAN2A1	Alpha-mannosidase 2
Cluster -1269	NT5E	5-nucleotidase
Cluster -1269	SOD2	Superoxide dismutase [Mn], mitochondrial
Cluster -1269	CAV2	Caveolin-2;Caveolin
Cluster -1269	PVR	Poliovirus receptor
Cluster -1269	PON2	Serum paraoxonase/arylesterase 2
Cluster -1269	RBM4;RBM4B	RNA-binding protein 4;RNA-binding protein 4B
Cluster -1269	EXOC4	Exocyst complex component 4
Cluster -1269	PLEKHO2	Pleckstrin homology domain-containing family O member 2
Cluster -1269	TMEM263	Transmembrane protein 263
Cluster -1269	HDAC2	Histone deacetylase 2
Cluster -1269	TNC	Tenascin
Cluster -1269	IGF2R	Cation-independent mannose-6-phosphate receptor
Cluster -1269	LTBP2	Latent-transforming growth factor beta-binding protein 2
Cluster -1269	CYR61	Protein CYR61
Cluster -1269	TGFBI	Transforming growth factor-beta-induced protein ig-h3
Cluster -1269	GREM1	Gremlin-1
Cluster -1269	EMC8	ER membrane protein complex subunit 8
Cluster -1269	HTRA1	Serine protease HTRA1
Cluster -1269	FNDC1	Fibronectin type III domain-containing protein 1
Cluster -1269	BUB3	Mitotic checkpoint protein BUB3
Cluster -1269	GID8	Glucose-induced degradation protein 8 homolog
Cluster -1269	RAB1B;RAB1C	Ras-related protein Rab-1B;Putative Ras-related protein Rab-1C
Cluster -1269	AIFM2	Apoptosis-inducing factor 2
Cluster -1269	ARL8A;ARL8B	ADP-ribosylation factor-like protein 8A;ADP-ribosylation factor-like protein 8B
Cluster -1269	ATP6V1E1	V-type proton ATPase subunit E 1

Cluster -1269	PSMD6	26S proteasome non-ATPase regulatory subunit 6
Cluster -1269	ENPP4	Bis(5-adenosyl)-triphosphatase ENPP4
Cluster -1269	MME	Neprilysin
Cluster -1269	TRIP11	Thyroid receptor-interacting protein 11
Cluster -1269	VPS16	Vacuolar protein sorting-associated protein 16 homolog
Cluster -1269	ERO1L	ERO1-like protein alpha
Cluster -1269	RCN3	Reticulocalbin-3
Cluster -1269	DNAJC10	DnaJ homolog subfamily C member 10
Cluster -1269	DNM1	Dynamin-1
Cluster -1269	RCN1	Reticulocalbin-1
Cluster -1269	SRI	Sorcin
Cluster -1269	TMED9	Transmembrane emp24 domain-containing protein 9
Cluster -1269	TUBA1A;TUBA3E	Tubulin alpha-1A chain;Tubulin alpha-3E chain
Cluster -1269	AP2A2	AP-2 complex subunit alpha-2
Cluster -1269	COPB1	Coatomer subunit beta
Cluster -1269	NXN	Nucleoredoxin
Cluster -1269	OCRL	Inositol polyphosphate 5-phosphatase OCRL-1
Cluster -1269	PSMC5	26S protease regulatory subunit 8
Cluster -1269	EIF4G2	Eukaryotic translation initiation factor 4 gamma 2
Cluster -1269	ITGB5	Integrin beta-5;Integrin beta
Cluster -1269	NCKAP1	Nck-associated protein 1
Cluster -1269	ATP13A1	Manganese-transporting ATPase 13A1
Cluster -1269	ASCC3	Activating signal cointegrator 1 complex subunit 3
Cluster -1269	RPL3	60S ribosomal protein L3
Cluster -1269	MTHFD1L	Monofunctional C1-tetrahydrofolate synthase, mitochondrial
Cluster -1269	DAK;TKFC	Bifunctional ATP-dependent dihydroxyacetone kinase/FAD-AMP lyase (cyclizing);ATP-dependent dihydroxyacetone kinase;FAD-AMP lyase (cyclizing)
Cluster -1269	ACOT9	Acyl-coenzyme A thioesterase 9, mitochondrial
Cluster -1269	GLG1	Golgi apparatus protein 1
Cluster -1269	RPL17;RPL17-C18orf32	60S ribosomal protein L17
Cluster -1269	ALDH3A2;ALDH3A1;ALDH3B2;ALDH3B1	Fatty aldehyde dehydrogenase;Aldehyde dehydrogenase, dimeric NADP-preferring;Aldehyde dehydrogenase family 3 member B1;Aldehyde dehydrogenase family 3 member B2
Cluster -1269	PDS5B	Sister chromatid cohesion protein PDS5 homolog B
Cluster -1269	TM9SF2	Transmembrane 9 superfamily member 2
Cluster -1269	ITGB1	Integrin beta-1
Cluster -1269	DDX19A;DDX19B	ATP-dependent RNA helicase DDX19A;ATP-dependent RNA helicase DDX19B
Cluster -1269	RPL21	60S ribosomal protein L21
Cluster -1269	CD109	CD109 antigen

Cluster -1269	TMED7;TMED7-TICAM2	Transmembrane emp24 domain-containing protein 7
Cluster -1269	STAT6	Signal transducer and activator of transcription 6
Cluster -1269	TMX3	Protein disulfide-isomerase TMX3
Cluster -1269	TRIP13	Pachytene checkpoint protein 2 homolog
Cluster -1269	TNFAIP2	Tumor necrosis factor alpha-induced protein 2
Cluster -1269	PRKDC	DNA-dependent protein kinase catalytic subunit
Cluster -1269	COL6A3	Collagen alpha-3(VI) chain
Cluster -1269	PRKRA	Interferon-inducible double-stranded RNA-dependent protein kinase activator A
Cluster -1269	H6PD	GDH/6PGL endoplasmic bifunctional protein;Glucose 1-dehydrogenase;6-phosphogluconolactonase
Cluster -1269	NOP58	Nucleolar protein 58
Cluster -1269	RALY	RNA-binding protein Raly
Cluster -1269	EFTUD2	116 kDa U5 small nuclear ribonucleoprotein component
Cluster -1269	DHX9	ATP-dependent RNA helicase A
Cluster -1269	FBL	rRNA 2-O-methyltransferase fibrillarin
Cluster -1269	PFKL	ATP-dependent 6-phosphofructokinase, liver type
Cluster -1269	XRCC5	X-ray repair cross-complementing protein 5
Cluster -1269	RPL9	60S ribosomal protein L9
Cluster -1269	SNRNP200	U5 small nuclear ribonucleoprotein 200 kDa helicase
Cluster -1269	SUN2	SUN domain-containing protein 2
Cluster -1269	CAT	Catalase
Cluster -1269	SLMAP	Sarcolemmal membrane-associated protein
Cluster -1269	NRP1	Neuropilin-1
Cluster -1269	ARMCX2	Armadillo repeat-containing X-linked protein 2
Cluster -1269	CPOX	Oxygen-dependent coproporphyrinogen-III oxidase, mitochondrial
Cluster -1269	LACTB	Serine beta-lactamase-like protein LACTB, mitochondrial
Cluster -1269	NOL9	Polynucleotide 5-hydroxyl-kinase NOL9
Cluster -1269	CPT1A	Carnitine O-palmitoyltransferase 1, liver isoform
Cluster -1269	TEP1	Telomerase protein component 1
Cluster -1269	SOAT1	Sterol O-acyltransferase 1
Cluster -1269	HSD17B4	Peroxisomal multifunctional enzyme type 2;(3R)-hydroxyacyl-CoA dehydrogenase;Enoyl-CoA hydratase 2
Cluster -1269	EDIL3	EGF-like repeat and discoidin I-like domain-containing protein 3
Cluster -1269	EIF2AK2	Interferon-induced, double-stranded RNA-activated protein kinase
Cluster -1269	ALDH1B1	Aldehyde dehydrogenase X, mitochondrial
Cluster -1269	UGGT2	UDP-glucose:glycoprotein glucosyltransferase 2
Cluster -1269	PRDX4	Peroxiredoxin-4
Cluster -1269	VTA1	Vacuolar protein sorting-associated protein VTA1 homolog



Cluster -1269	NSF	Vesicle-fusing ATPase
Cluster -1269	TCIRG1	V-type proton ATPase 116 kDa subunit a isoform 3;V-type proton ATPase subunit a
Cluster -1269	STAT3	Signal transducer and activator of transcription 3;Signal transducer and activator of transcription
Cluster -1269	GAA	Lysosomal alpha-glucosidase;76 kDa lysosomal alpha-glucosidase;70 kDa lysosomal alpha-glucosidase
Cluster -1269	SCARB2	Lysosome membrane protein 2
Cluster -1269	CYB5R3	NADH-cytochrome b5 reductase 3;NADH-cytochrome b5 reductase 3 membrane-bound form;NADH-cytochrome b5 reductase 3 soluble form
Cluster -1269	SDF2	Stromal cell-derived factor 2
Cluster -1269	LCLAT1	Lysocardiolipin acyltransferase 1
Cluster -1269	MFGE8	Lactadherin;Lactadherin short form;Medin
Cluster -1269	SPTLC1	Serine palmitoyltransferase 1
Cluster -1269	GLB1	Beta-galactosidase
Cluster -1269	MYO1D	Unconventional myosin-Id
Cluster -1269	SPRYD7	SPRY domain-containing protein 7
Cluster -1269	SLC44A1	Choline transporter-like protein 1
Cluster -1269	ANXA11	Annexin A11
Cluster -1269	MYL6B	Myosin light chain 6B
Cluster -1269	CD276	CD276 antigen
Cluster -1269	CNPY4	Protein canopy homolog 4
Cluster -1269	FKBP7	Peptidyl-prolyl cis-trans isomerase FKBP7
Cluster -1269	DNAJB11	DnaJ homolog subfamily B member 11
Cluster -1269	ABCC4	Multidrug resistance-associated protein 4
Cluster -1269	GBA	Glucosylceramidase
Cluster -1269	EXOC6B	Exocyst complex component 6B
Cluster -1269	CLCC1	Chloride channel CLIC-like protein 1
Cluster -1269	DNAJC3	DnaJ homolog subfamily C member 3
Cluster -1269	HSD17B12	Very-long-chain 3-oxoacyl-CoA reductase
Cluster -1269	RDH11	Retinol dehydrogenase 11
Cluster -1269	NOTCH2	Neurogenic locus notch homolog protein 2;Notch 2 extracellular truncation;Notch 2 intracellular domain
Cluster -1269	PTPN1	Tyrosine-protein phosphatase non-receptor type 1;Tyrosine-protein phosphatase non-receptor type
Cluster -1269	AP2S1	AP-2 complex subunit sigma
Cluster -1269	MECR	Trans-2-enoyl-CoA reductase, mitochondrial
Cluster -1269	MTX2	Metaxin-2
Cluster -1269	NAA15	N-alpha-acetyltransferase 15, NatA auxiliary subunit
Cluster -1269	NOP56	Nucleolar protein 56
Cluster -1269	ESYT1	Extended synaptotagmin-1
Cluster -1269	ADPGK	ADP-dependent glucokinase

Cluster -1269	FAF2	FAS-associated factor 2
Cluster -1269	IKBIP	Inhibitor of nuclear factor kappa-B kinase-interacting protein
Cluster -1269	GANAB	Neutral alpha-glucosidase AB
Cluster -1269	LMAN2	Vesicular integral-membrane protein VIP36
Cluster -1269	CALR	Calreticulin
Cluster -1269	CYB5B	Cytochrome b5 type B
Cluster -1269	HNRNPUL1	Heterogeneous nuclear ribonucleoprotein U-like protein 1
Cluster -1269	LPAR1	Lysophosphatidic acid receptor 1
Cluster -1269	CYB5R1	NADH-cytochrome b5 reductase 1
Cluster -1269	TECR	Very-long-chain enoyl-CoA reductase
Cluster -1269	TM9SF3	Transmembrane 9 superfamily member 3
Cluster -1269	TMED4	Transmembrane emp24 domain-containing protein 4
Cluster -1269	REEP5	Receptor expression-enhancing protein 5
Cluster -1269	SPNS1	Protein spinster homolog 1
Cluster -1269	RAB2A	Ras-related protein Rab-2A
Cluster -1269	AK3	GTP:AMP phosphotransferase AK3, mitochondrial
Cluster -1269	ERP44	Endoplasmic reticulum resident protein 44
Cluster -1269	HIBCH	3-hydroxyisobutyryl-CoA hydrolase, mitochondrial
Cluster -1269	TMED1	Transmembrane emp24 domain-containing protein 1
Cluster -1269	SHMT2	Serine hydroxymethyltransferase, mitochondrial;Serine hydroxymethyltransferase
Cluster -1269	NDUFC2	NADH dehydrogenase [ubiquinone] 1 subunit C2
Cluster -1269	NUP85	Nuclear pore complex protein Nup85
Cluster -1269	CLCN7	H(+)/Cl(-) exchange transporter 7
Cluster -1269	SPCS2	Signal peptidase complex subunit 2
Cluster -1269	MSRB3	Methionine-R-sulfoxide reductase B3
Cluster -1269	IFNL1	Interferon lambda-1
Cluster -1269	ATL3	Atlastin-3
Cluster -1269	KIAA0020	Pumilio domain-containing protein KIAA0020
Cluster -1269	ANGPT1	Angiopoietin-1
Cluster -1269	TMED2	Transmembrane emp24 domain-containing protein 2
Cluster -1269	RPN2	Dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit 2
Cluster -1269	BSG	Basigin
Cluster -1269	RPN1	Dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit 1
Cluster -1269	SRPRB	Signal recognition particle receptor subunit beta
Cluster -1269	NDUFAF4	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex assembly factor 4
Cluster -1269	ANO10	Anoctamin-10
Cluster -1269	SLFN5	Schlafen family member 5
Cluster -1269	LRP1	Prolow-density lipoprotein receptor-related protein 1;Low-

		density lipoprotein receptor-related protein 1 85 kDa subunit;Low-density lipoprotein receptor-related protein 1 515 kDa subunit;Low-density lipoprotein receptor-related protein 1 intracellular domain
Cluster -1269	ERGIC2	Endoplasmic reticulum-Golgi intermediate compartment protein 2
Cluster -1269	AGPS	Alkyldihydroxyacetonephosphate synthase, peroxisomal
Cluster -1269	SLC12A4	Solute carrier family 12 member 4
Cluster -1269	SEC63	Translocation protein SEC63 homolog
Cluster -1269	SEL1L	Protein sel-1 homolog 1
Cluster -1269	UGGT1	UDP-glucose:glycoprotein glucosyltransferase 1
Cluster -1269	SLC38A10	Putative sodium-coupled neutral amino acid transporter 10
Cluster -1269	NCLN	Nicalin
Cluster -1269	EMC1	ER membrane protein complex subunit 1
Cluster -1269	MMGT1	Membrane magnesium transporter 1
Cluster -1269	ODR4	Protein odr-4 homolog
Cluster -1269	MOGS	Mannosyl-oligosaccharide glucosidase
Cluster -1269	STT3A	Dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit STT3A
Cluster -1269	LRPAP1	Alpha-2-macroglobulin receptor-associated protein
Cluster -1269	TOR1B	Torsin-1B
Cluster -1269	GPR108	Protein GPR108
Cluster -1269	SLC39A14	Zinc transporter ZIP14
Cluster -1269	SLC12A7	Solute carrier family 12 member 7
Cluster -1269	PREB	Prolactin regulatory element-binding protein
Cluster -1269	GSTK1	Glutathione S-transferase kappa 1
Cluster -1269	OS9	Protein OS-9
Cluster -1269	ATP5F1	ATP synthase F(0) complex subunit B1, mitochondrial
Cluster -1269	GLS	Glutaminase kidney isoform, mitochondrial
Cluster -1269	SACM1L	Phosphatidylinositide phosphatase SAC1
Cluster -1269	ATP6V0D1	V-type proton ATPase subunit d 1
Cluster -1269	ARMCX3	Armadillo repeat-containing X-linked protein 3
Cluster -1269	TMEM43	Transmembrane protein 43
Cluster -1269	ERGIC1	Endoplasmic reticulum-Golgi intermediate compartment protein 1
Cluster -1269	ABCD3	ATP-binding cassette sub-family D member 3
Cluster -1269	LMAN1	Protein ERGIC-53
Cluster -1269	ALG2	Alpha-1,3/1,6-mannosyltransferase ALG2
Cluster -1269	SNTB2	Beta-2-syntrophin
Cluster -1269	CLDN11	Claudin-11;Claudin
Cluster -1269	ARHGEF11	Rho guanine nucleotide exchange factor 11
Cluster -1269	TBL1XR1	F-box-like/WD repeat-containing protein TBL1XR1

Cluster -1269	CLPTM1L	N/A
Cluster -1269	PEX11B	Peroxisomal membrane protein 11B
Cluster -1269	NUCB1	Nucleobindin-1
Cluster -1269	MANF	Mesencephalic astrocyte-derived neurotrophic factor
Cluster -1269	SERPINH1	Serpin H1
Cluster -1269	P4HB	Protein disulfide-isomerase
Cluster -1269	CALU	Calumenin
Cluster -1269	COL5A2	Collagen alpha-2(V) chain
Cluster -1269	APMAP	Adipocyte plasma membrane-associated protein
Cluster -1269	ATL1	Atlastin-1
Cluster -1269	PDIA5	Protein disulfide-isomerase A5
Cluster -1269	SLC25A1	Tricarboxylate transport protein, mitochondrial
Cluster -1269	GMPS	GMP synthase [glutamine-hydrolyzing]
Cluster -1269	CANX	Calnexin
Cluster -1269	ALCAM	CD166 antigen
Cluster -1269	NOMO2;NOMO3	Nodal modulator 2;Nodal modulator 3
Cluster -1269	CKAP4	Cytoskeleton-associated protein 4
Cluster -1269	PLOD1	Procollagen-lysine,2-oxoglutarate 5-dioxygenase 1
Cluster -1269	SSR4	Translocon-associated protein subunit delta
Cluster -1269	PRPF6	Pre-mRNA-processing factor 6
Cluster -1269	AP3B1	AP-3 complex subunit beta-1
Cluster -1269	SUMF2	Sulfatase-modifying factor 2
Cluster -1269	HMOX2	Heme oxygenase 2
Cluster -1269	STON2	Stonin-2
Cluster -1269	COLGALT1	Procollagen galactosyltransferase 1
Cluster -1269	LEPRE1	Prolyl 3-hydroxylase 1
Cluster -1269	HM13	Minor histocompatibility antigen H13
Cluster -1269	C17orf62	Uncharacterized protein C17orf62
Cluster -1269	P4HA1	Prolyl 4-hydroxylase subunit alpha-1
Cluster -1269	P4HA2	Prolyl 4-hydroxylase subunit alpha-2
Cluster -1269	SLC16A3	Monocarboxylate transporter 4
Cluster -1269	UBTF	Nucleolar transcription factor 1
Cluster -1269	RSL1D1	Ribosomal L1 domain-containing protein 1
Cluster -1269	PXDN	Peroxidasin homolog
Cluster -1269	TMED10	Transmembrane emp24 domain-containing protein 10
Cluster -1269	ATP2A2	Sarcoplasmic/endoplasmic reticulum calcium ATPase 2
Cluster -1269	RER1	Protein RER1
Cluster -1269	DDOST	Dolichyl-diphosphooligosaccharide--protein glycosyltransferase 48 kDa subunit
Cluster -1269	SLC39A7	Zinc transporter SLC39A7
Cluster -1269	NCBP1	Nuclear cap-binding protein subunit 1

Cluster -1269	FBN1	Fibrillin-1
Cluster -1269	GFM2	Ribosome-releasing factor 2, mitochondrial
Cluster -1269	GNAI2	Guanine nucleotide-binding protein G(i) subunit alpha-2
Cluster -1269	MYADM	Myeloid-associated differentiation marker
Cluster -1269	UTP14A;UTP14 C	U3 small nucleolar RNA-associated protein 14 homolog A;U3 small nucleolar RNA-associated protein 14 homolog C
Cluster -1269	PLOD3	Procollagen-lysine,2-oxoglutarate 5-dioxygenase 3
Cluster -1269	DHRS3	Short-chain dehydrogenase/reductase 3
Cluster -1269	TYMP	Thymidine phosphorylase
Cluster -1269	ACOX1	Peroxisomal acyl-coenzyme A oxidase 1
Cluster -1269	STT3B	Dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit STT3B
Cluster -1269	PDIA6	Protein disulfide-isomerase A6
Cluster -1269	NUCB2;Nucb2	Nucleobindin-2;Nesfatin-1
Cluster -1269	LAMP1	Lysosome-associated membrane glycoprotein 1
Cluster -1269	PDIA4	Protein disulfide-isomerase A4
Cluster -1269	ERLEC1	Endoplasmic reticulum lectin 1
Cluster -1269	IKBIP	Inhibitor of nuclear factor kappa-B kinase-interacting protein
Cluster -1269	MLEC	Malectin
Cluster -1269	ITGAV	Integrin alpha-V;Integrin alpha-V heavy chain;Integrin alpha-V light chain
Cluster -1269	MT-ND5	NADH-ubiquinone oxidoreductase chain 5
Cluster -1269	PTRH2	Peptidyl-tRNA hydrolase 2, mitochondrial
Cluster -1269	HYOU1	Hypoxia up-regulated protein 1
Cluster -1269	SEC11A	Signal peptidase complex catalytic subunit SEC11A;Signal peptidase complex catalytic subunit SEC11
Cluster -1269	VANGL1	Vang-like protein 1
Cluster -1269	MTDH	Protein LYRIC
Cluster -1269	SSR1	Translocon-associated protein subunit alpha
Cluster -1269	ACOX3	Peroxisomal acyl-coenzyme A oxidase 3
Cluster -1269	C1QTNF5	Complement C1q tumor necrosis factor-related protein 5
Cluster -1269	MIA3	Melanoma inhibitory activity protein 3
Cluster -1269	SPARC	SPARC
Cluster -1269	COL5A1	Collagen alpha-1(V) chain
Cluster -1269	SLC25A6	ADP/ATP translocase 3;ADP/ATP translocase 3, N- terminally processed
Cluster -1269	HSPD1	60 kDa heat shock protein, mitochondrial
Cluster -1269	FKBP9	Peptidyl-prolyl cis-trans isomerase FKBP9
Cluster -1269	LETM1	LETM1 and EF-hand domain-containing protein 1, mitochondrial
Cluster -1269	SFXN1	Sideroflexin-1
Cluster -1269	SELM	Selenoprotein M
Cluster -1269	ATP5J2;ATP5J2-	ATP synthase subunit f, mitochondrial

	PTCD1	
Cluster -1269	GALNT5	Polypeptide N-acetylgalactosaminyltransferase 5
Cluster -1269	TRAP1	Heat shock protein 75 kDa, mitochondrial
Cluster -1269	LAMB2	Laminin subunit beta-2
Cluster -1269	SEC61A1	Protein transport protein Sec61 subunit alpha isoform 1
Cluster -1269	FLOT1	Flotillin-1
Cluster -1269	NDUFS1	NADH-ubiquinone oxidoreductase 75 kDa subunit, mitochondrial
Cluster -1269	SLC25A5	ADP/ATP translocase 2;ADP/ATP translocase 2, N-terminally processed
Cluster -1269	ATAD3A	ATPase family AAA domain-containing protein 3A
Cluster -1269	PITRM1	Presequence protease, mitochondrial
Cluster -1269	UQCRC1	Cytochrome b-c1 complex subunit 1, mitochondrial
Cluster -1269	NDUFS2	NADH dehydrogenase [ubiquinone] iron-sulfur protein 2, mitochondrial
Cluster -1269	SUN1	SUN domain-containing protein 1
Cluster -1269	PHB2	Prohibitin-2
Cluster -1269	COL12A1	Collagen alpha-1(XII) chain
Cluster -1269	PCYOX1	Prenylcysteine oxidase 1
Cluster -1269	NDUFA13	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 13
Cluster -1269	IARS2	Isoleucine--tRNA ligase, mitochondrial
Cluster -1269	DIABLO	Diablo homolog, mitochondrial
Cluster -1269	SLC25A24	Calcium-binding mitochondrial carrier protein SCA1
Cluster -1269	NDUFA9	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 9, mitochondrial
Cluster -1269	NNT	NAD(P) transhydrogenase, mitochondrial
Cluster -1269	LUM	Lumican
Cluster -1269	ATP5C1	ATP synthase subunit gamma, mitochondrial
Cluster -1269	ATP5A1	ATP synthase subunit alpha, mitochondrial
Cluster -1269	AIFM1	Apoptosis-inducing factor 1, mitochondrial
Cluster -1269	LONP1	Lon protease homolog, mitochondrial
Cluster -1269	DHRS4	Dehydrogenase/reductase SDR family member 4
Cluster -1269	ATP6AP1	V-type proton ATPase subunit S1
Cluster -1269	NCEH1	Neutral cholesterol ester hydrolase 1
Cluster -1269	ACAA2	3-ketoacyl-CoA thiolase, mitochondrial
Cluster -1269	SAMM50	Sorting and assembly machinery component 50 homolog
Cluster -1269	IMMT	MICOS complex subunit MIC60
Cluster -1269	NDUFA5	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 5
Cluster -1269	ALDH18A1	Delta-1-pyrroline-5-carboxylate synthase;Glutamate 5-kinase;Gamma-glutamyl phosphate reductase
Cluster -1269	COX4I1	Cytochrome c oxidase subunit 4 isoform 1, mitochondrial

Cluster -1269	EPHX1	Epoxide hydrolase 1
Cluster -1269	ATP5B	ATP synthase subunit beta, mitochondrial;ATP synthase subunit beta
Cluster -1269	OAT	Ornithine aminotransferase, mitochondrial;Ornithine aminotransferase, hepatic form;Ornithine aminotransferase, renal form
Cluster -1269	OPA1	Dynamin-like 120 kDa protein, mitochondrial;Dynamin-like 120 kDa protein, form S1
Cluster -1269	GLS	Glutaminase kidney isoform, mitochondrial
Cluster -1269	MTCH2	Mitochondrial carrier homolog 2
Cluster -1269	VDAC3	Voltage-dependent anion-selective channel protein 3
Cluster -1269	UQCRC2	Cytochrome b-c1 complex subunit 2, mitochondrial
Cluster -1269	ETFA	Electron transfer flavoprotein subunit alpha, mitochondrial
Cluster -1269	CYC1	Cytochrome c1, heme protein, mitochondrial
Cluster -1269	CS	Citrate synthase, mitochondrial;Citrate synthase
Cluster -1269	OGDH	2-oxoglutarate dehydrogenase, mitochondrial
Cluster -1269	DECR1	2,4-dienoyl-CoA reductase, mitochondrial
Cluster -1269	ACADVL	Very long-chain specific acyl-CoA dehydrogenase, mitochondrial
Cluster -1269	LRPPRC	Leucine-rich PPR motif-containing protein, mitochondrial
Cluster -1269	PHB	Prohibitin
Cluster -1269	SDHB	Succinate dehydrogenase [ubiquinone] iron-sulfur subunit, mitochondrial
Cluster -1269	DLD	Dihydrolipoyl dehydrogenase, mitochondrial;Dihydrolipoyl dehydrogenase
Cluster -1269	MYOF	Myoferlin
Cluster -1269	ACAD9	Acyl-CoA dehydrogenase family member 9, mitochondrial
Cluster -1269	HADHB	Trifunctional enzyme subunit beta, mitochondrial;3-ketoacyl-CoA thiolase
Cluster -1269	HADHA	Trifunctional enzyme subunit alpha, mitochondrial;Long-chain enoyl-CoA hydratase;Long chain 3-hydroxyacyl-CoA dehydrogenase
Cluster -1269	NFU1	NFU1 iron-sulfur cluster scaffold homolog, mitochondrial
Cluster -1269	PIGK	GPI-anchor transamidase
Cluster -1269	APOOL	MICOS complex subunit MIC27
Cluster -1269	SFXN3	Sideroflexin-3
Cluster -1269	C21orf33	N/A
Cluster -1269	ATP6V1D	V-type proton ATPase subunit D
Cluster -1269	ITGA11	Integrin alpha-11
Cluster -1269	IGFBP7	Insulin-like growth factor-binding protein 7
Cluster -1269	EHHADH	Peroxisomal bifunctional enzyme;Enoyl-CoA hydratase/3,2-trans-enoyl-CoA isomerase;3-hydroxyacyl-CoA dehydrogenase
Cluster -1269	CD151	CD151 antigen;Tetraspanin

Cluster -1269	N/A	N/A
Cluster -1269	DNAJC5	DnaJ homolog subfamily C member 5
Cluster -1269	ATP5J	ATP synthase-coupling factor 6, mitochondrial
Cluster -1269	HSP90B1	Endoplasmic
Cluster -1269	DNAJC13	DnaJ homolog subfamily C member 13
Cluster -1269	LAMP2	Lysosome-associated membrane glycoprotein 2
Cluster -1269	HSD17B10	3-hydroxyacyl-CoA dehydrogenase type-2
Cluster -1269	DNAJA3	DnaJ homolog subfamily A member 3, mitochondrial
Cluster -1269	TRIM60	Tripartite motif-containing protein 60
Cluster -1269	MT-CO2	Cytochrome c oxidase subunit 2
Cluster -1269	CCDC90B	Coiled-coil domain-containing protein 90B, mitochondrial
Cluster -1269	SLC25A11	Mitochondrial 2-oxoglutarate/malate carrier protein
Cluster -1269	SUCLG1	Succinyl-CoA ligase [ADP/GDP-forming] subunit alpha, mitochondrial
Cluster -1269	ACO2	Aconitate hydratase, mitochondrial
Cluster -1269	PRDX3	Thioredoxin-dependent peroxide reductase, mitochondrial
Cluster -1269	PI4KA	Phosphatidylinositol 4-kinase alpha
Cluster -1269	PRKAG1	5-AMP-activated protein kinase subunit gamma-1
Cluster -1269	POLR2C	DNA-directed RNA polymerase II subunit RPB3
Cluster -1269	ATP1B3	Sodium/potassium-transporting ATPase subunit beta-3
Cluster -1269	GPD2	Glycerol-3-phosphate dehydrogenase, mitochondrial
Cluster -1269	WDR18	WD repeat-containing protein 18
Cluster -1269	C16orf58	RUS1 family protein C16orf58
Cluster -1269	CEMP1	Cell migration-inducing and hyaluronan-binding protein
Cluster -1269	MCFD2	Multiple coagulation factor deficiency protein 2
Cluster -1269	FAP	Prolyl endopeptidase FAP;Antiplasmin-cleaving enzyme FAP, soluble form
Cluster -1269	RRAS2	Ras-related protein R-Ras2
Cluster -1269	TUFM	Elongation factor Tu, mitochondrial
Cluster -1269	PRCP	Lysosomal Pro-X carboxypeptidase
Cluster -1269	ATP6V1A	V-type proton ATPase catalytic subunit A
Cluster -1269	B2M	Beta-2-microglobulin;Beta-2-microglobulin form pI 5.3
Cluster -1269	PDGFRB	Platelet-derived growth factor receptor beta
Cluster -1269	GLUD1;GLUD2	Glutamate dehydrogenase 1, mitochondrial;Glutamate dehydrogenase 2, mitochondrial
Cluster -1269	HADH	Hydroxyacyl-coenzyme A dehydrogenase, mitochondrial
Cluster -1269	SDF4	45 kDa calcium-binding protein
Cluster -1269	IFI16	Gamma-interferon-inducible protein 16
Cluster -1269	ANPEP	Aminopeptidase N
Cluster -1269	RRAS	Ras-related protein R-Ras
Cluster -1269	TOP2B	DNA topoisomerase 2-beta;DNA topoisomerase 2
Cluster -1269	DTYMK	Thymidylate kinase



Cluster -1269	TRIM4	E3 ubiquitin-protein ligase TRIM4
Cluster -1269	BCAP31	B-cell receptor-associated protein 31
Cluster -1269	EFHD1	EF-hand domain-containing protein D1
Cluster -1269	ASPH	Aspartyl/asparaginyl beta-hydroxylase
Cluster -1269	NUP107	Nuclear pore complex protein Nup107
Cluster -1269	COL6A2	Collagen alpha-2(VI) chain
Cluster -1269	COL6A1	Collagen alpha-1(VI) chain
Cluster -1269	GOLIM4	Golgi integral membrane protein 4
Cluster -1269	IDH2	Isocitrate dehydrogenase [NADP], mitochondrial
Cluster -1269	MDH2	Malate dehydrogenase, mitochondrial;Malate dehydrogenase
Cluster -1213	HNRNPH2	Heterogeneous nuclear ribonucleoprotein H2
Cluster -1213	NAGLU	Alpha-N-acetylglucosaminidase;Alpha-N-acetylglucosaminidase 82 kDa form;Alpha-N-acetylglucosaminidase 77 kDa form
Cluster -1213	ATP6V1H	V-type proton ATPase subunit H
Cluster -1213	PAPSS1	Bifunctional 3-phosphoadenosine 5-phosphosulfate synthase 1;Sulfate adenylyltransferase;Adenylyl-sulfate kinase
Cluster -1213	THY1	Thy-1 membrane glycoprotein
Cluster -1213	MAVS	Mitochondrial antiviral-signaling protein
Cluster -1213	DNM2	Dynamin-2
Cluster -1213	TNPO3	Transportin-3
Cluster -1213	PPM1G	Protein phosphatase 1G
Cluster -1213	LSS	Lanosterol synthase
Cluster -1213	SLC30A1	Zinc transporter 1
Cluster -1272	UQCRI0	Cytochrome b-c1 complex subunit 9
Cluster -1272	COL12A1	N/A
Cluster -1272	DSCR3	Down syndrome critical region protein 3
Cluster -1272	SMC1A	Structural maintenance of chromosomes protein 1A;Structural maintenance of chromosomes protein
Cluster -1272	SLC44A2	Choline transporter-like protein 2
Cluster -1272	SH3BP4	SH3 domain-binding protein 4
Cluster -1272	PELO	Protein pelota homolog
Cluster -1272	TTC37	Tetratricopeptide repeat protein 37
Cluster -1272	NSUN2	tRNA (cytosine(34)-C(5))-methyltransferase
Cluster -1272	RAD50	DNA repair protein RAD50
Cluster -1272	MGAT1	Alpha-1,3-mannosyl-glycoprotein 2-beta-N-acetylglucosaminyltransferase
Cluster -1272	SNX18	Sorting nexin-18
Cluster -1272	TMEM214	Transmembrane protein 214
Cluster -1272	RPL24	60S ribosomal protein L24
Cluster -1272	P4HA1	Prolyl 4-hydroxylase subunit alpha-1
Cluster -1272	SRP72	Signal recognition particle subunit SRP72

Cluster -1272	GOSR2	Golgi SNAP receptor complex member 2
Cluster -1272	SNX2	Sorting nexin-2
Cluster -1272	LARP6	La-related protein 6
Cluster -1272	RANBP2	E3 SUMO-protein ligase RanBP2
Cluster -1272	ENDOD1	Endonuclease domain-containing 1 protein
Cluster -1272	PDCD11	Protein RRP5 homolog
Cluster -1272	FLOT2	Flotillin-2
Cluster -1272	SERINC1	Serine incorporator 1
Cluster -1272	SLC27A1	Long-chain fatty acid transport protein 1
Cluster -1272	SREBF2	Sterol regulatory element-binding protein 2;Processed sterol regulatory element-binding protein 2
Cluster -1272	PROSC	Proline synthase co-transcribed bacterial homolog protein
Cluster -1272	PIGT	GPI transamidase component PIG-T
Cluster -1272	TMEM33	Transmembrane protein 33
Cluster -1272	HMGCL	Hydroxymethylglutaryl-CoA lyase, mitochondrial
Cluster -1272	KDELRL1	ER lumen protein-retaining receptor 1;ER lumen protein-retaining receptor
Cluster -1272	SYNJ2BP;SYNJ2 BP-COX16	Synaptojanin-2-binding protein
Cluster -1272	BZW2	Basic leucine zipper and W2 domain-containing protein 2
Cluster -1272	CASC4	Protein CASC4
Cluster -1272	LRRC41	Leucine-rich repeat-containing protein 41
Cluster -1272	COX7C	Cytochrome c oxidase subunit 7C, mitochondrial
Cluster -1272	SF3A3	Splicing factor 3A subunit 3
Cluster -1272	C1QBP	Complement component 1 Q subcomponent-binding protein, mitochondrial
Cluster -1272	CDH13	Cadherin-13
Cluster -1272	MYO1B	Unconventional myosin-Ib
Cluster -1272	CSK;MATK	Tyrosine-protein kinase CSK
Cluster -1272	SEH1L	Nucleoporin SEH1
Cluster -1272	CSDE1	Cold shock domain-containing protein E1
Cluster -1272	LZTFL1	Leucine zipper transcription factor-like protein 1
Cluster -1272	ITGA6	Integrin alpha-6;Integrin alpha-6 heavy chain;Integrin alpha-6 light chain;Processed integrin alpha-6
Cluster -1272	NUP54	Nucleoporin p54
Cluster -1272	APPL1	DCC-interacting protein 13-alpha
Cluster -1272	FCHSD1	F-BAR and double SH3 domains protein 1
Cluster -1272	DOCK7	Dedicator of cytokinesis protein 7
Cluster -1272	GNA13	Guanine nucleotide-binding protein subunit alpha-13
Cluster -1272	NUP93	Nuclear pore complex protein Nup93
Cluster -1272	SSRP1	FACT complex subunit SSRP1
Cluster -1272	VPS37A	Vacuolar protein sorting-associated protein 37A

Cluster -1272	SLC35E1	Solute carrier family 35 member E1
Cluster -1272	VMP1	Vacuole membrane protein 1
Cluster -1272	CLASP2	CLIP-associating protein 2
Cluster -1272	PIR	Pirin
Cluster -1272	PTPN14	Tyrosine-protein phosphatase non-receptor type 14
Cluster -1272	UNC13B	Protein unc-13 homolog B
Cluster -1272	CCDC93	Coiled-coil domain-containing protein 93
Cluster -1272	BRCC3	Lys-63-specific deubiquitinase BRCC36
Cluster -1272	KIAA0196	WASH complex subunit strumpellin
Cluster -1272	VAC14	Protein VAC14 homolog
Cluster -1272	MYD88	Myeloid differentiation primary response protein MyD88
Cluster -1272	TMCO1	Transmembrane and coiled-coil domain-containing protein 1
Cluster -1272	TIMM9	Mitochondrial import inner membrane translocase subunit Tim9
Cluster -1272	ERBB2IP	Protein LAP2
Cluster -1272	ECHS1	Enoyl-CoA hydratase, mitochondrial
Cluster -1272	10-set	Septin-10
Cluster -1272	NDUFA6	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 6
Cluster -1272	HSPB2;HSPB2-C11orf52	Heat shock protein beta-2
Cluster -1272	CSPG4	Chondroitin sulfate proteoglycan 4
Cluster -1272	GALNT2	Polypeptide N-acetylgalactosaminyltransferase 2;Polypeptide N-acetylgalactosaminyltransferase 2 soluble form
Cluster -1272	U2SURP	U2 snRNP-associated SURP motif-containing protein
Cluster -1272	PPAP2A	Lipid phosphate phosphohydrolase 1
Cluster -1272	GTF2I	General transcription factor II-I
Cluster -1272	FNDC3A	Fibronectin type-III domain-containing protein 3A
Cluster -1272	NAT1	Arylamine N-acetyltransferase 1
Cluster -1272	RPL14	60S ribosomal protein L14
Cluster -1272	ZW10	Centromere/kinetochore protein zw10 homolog
Cluster -1272	RBPJ	Recombining binding protein suppressor of hairless
Cluster -1272	RPL22L1	60S ribosomal protein L22-like 1
Cluster -1272	TBC1D4	TBC1 domain family member 4
Cluster -1272	CRTAP	Cartilage-associated protein
Cluster -1272	DNAH1	Dynein heavy chain 1, axonemal
Cluster -1272	TMEM173	Stimulator of interferon genes protein
Cluster -1272	SUPT6H	Transcription elongation factor SPT6
Cluster -1272	NDUFB10	NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 10
Cluster -1272	VKORC1L1	Vitamin K epoxide reductase complex subunit 1-like protein 1
Cluster -1272	NDUFS4	NADH dehydrogenase [ubiquinone] iron-sulfur protein 4,

		mitochondrial
Cluster -1272	SLC25A13	Calcium-binding mitochondrial carrier protein Aralar2
Cluster -1272	TBRG4	Protein TBRG4
Cluster -1272	ACADSB	Short/branched chain specific acyl-CoA dehydrogenase, mitochondrial
Cluster -1272	CD47	Leukocyte surface antigen CD47
Cluster -1272	SUCLA2	Succinyl-CoA ligase [ADP-forming] subunit beta, mitochondrial
Cluster -1272	SDF2L1	Stromal cell-derived factor 2-like protein 1
Cluster -1272	ME2	NAD-dependent malic enzyme, mitochondrial
Cluster -1272	FKBP15	FK506-binding protein 15
Cluster -1272	TMX4	Thioredoxin-related transmembrane protein 4
Cluster -1272	HKDC1	Putative hexokinase HKDC1
Cluster -1272	SRSF11	Serine/arginine-rich splicing factor 11
Cluster -1272	AK4	Adenylate kinase 4, mitochondrial
Cluster -1272	FHAD1	Forkhead-associated domain-containing protein 1
Cluster -1272	BCKDHA	2-oxoisovalerate dehydrogenase subunit alpha, mitochondrial
Cluster -1272	CHID1	Chitinase domain-containing protein 1
Cluster -1272	LEPREL2	Prolyl 3-hydroxylase 3
Cluster -1272	C6orf163	Uncharacterized protein C6orf163
Cluster -1272	CCDC37	Coiled-coil domain-containing protein 37
Cluster -1272	CYP51A1	Lanosterol 14-alpha demethylase
Cluster -1272	WNT5A	Protein Wnt-5a;Protein Wnt
Cluster -1272	PIGS	GPI transamidase component PIG-S
Cluster -1272	MRPL50	39S ribosomal protein L50, mitochondrial
Cluster -1272	ETFDH	Electron transfer flavoprotein-ubiquinone oxidoreductase, mitochondrial
Cluster -1272	NUDT19	Nucleoside diphosphate-linked moiety X motif 19, mitochondrial
Cluster -1272	MRPL4	39S ribosomal protein L4, mitochondrial
Cluster -1272	RAB23	Ras-related protein Rab-23
Cluster -1272	LLGL1	Lethal(2) giant larvae protein homolog 1
Cluster -1272	RECK	Reversion-inducing cysteine-rich protein with Kazal motifs
Cluster -1272	SETBP1	SET-binding protein
Cluster -1272	CEP350	Centrosome-associated protein 350
Cluster -1272	DAG1	Dystroglycan;Alpha-dystroglycan;Beta-dystroglycan
Cluster -1272	CYP7B1	25-hydroxycholesterol 7-alpha-hydroxylase
Cluster -1272	ZNF207	BUB3-interacting and GLEBS motif-containing protein ZNF207
Cluster -1272	RPL10	N/A
Cluster -1272	SNX25	Sorting nexin-25
Cluster -1272	DDX11;DDX11L8;DDX12P	Probable ATP-dependent RNA helicase DDX11;Putative ATP-dependent RNA helicase DDX11-like protein

		8;Putative ATP-dependent RNA helicase DDX12
Cluster -1272	NOC3L	Nucleolar complex protein 3 homolog
Cluster -1272	XXYLT1	Xyloside xylosyltransferase 1
Cluster -1272	B3GALTL	Beta-1,3-glucosyltransferase
Cluster -1272	DRG2	Developmentally-regulated GTP-binding protein 2
Cluster -1272	SLIRP	SRA stem-loop-interacting RNA-binding protein, mitochondrial
Cluster -1272	ACOT8	Acyl-coenzyme A thioesterase 8
Cluster -1272	ENPP1	Ectonucleotide pyrophosphatase/phosphodiesterase family member 1;Alkaline phosphodiesterase I;Nucleotide pyrophosphatase
Cluster -1272	LEPREL4;P3H4	Synaptonemal complex protein SC65
Cluster -1272	PYCR2	Pyrroline-5-carboxylate reductase 2;Pyrroline-5-carboxylate reductase
Cluster -1272	ACOX2	Peroxisomal acyl-coenzyme A oxidase 2;Acyl-coenzyme A oxidase
Cluster -1272	HINT2	Histidine triad nucleotide-binding protein 2, mitochondrial
Cluster -1272	TACO1	Translational activator of cytochrome c oxidase 1
Cluster -1272	CNTRL	Centriolin
Cluster -1272	FSIP2	Fibrous sheath-interacting protein 2
Cluster -1272	UQCRFS1;UQC RFS1P1	Cytochrome b-c1 complex subunit Rieske, mitochondrial;Cytochrome b-c1 complex subunit 11;Putative cytochrome b-c1 complex subunit Rieske-like protein 1
Cluster -1272	CLPX	ATP-dependent Clp protease ATP-binding subunit clpX-like, mitochondrial
Cluster -1272	MPHOSPH8	N/A
Cluster -1272	MRPL2	39S ribosomal protein L2, mitochondrial
Cluster -1272	CYP20A1	Cytochrome P450 20A1
Cluster -1272	OR2Z1	Olfactory receptor 2Z1
Cluster -1272	LEMD2	LEM domain-containing protein 2
Cluster -1272	SNX8	Sorting nexin-8
Cluster -1272	GNL1	Guanine nucleotide-binding protein-like 1
Cluster -1272	CPNE3	Copine-3
Cluster -1272	CTTNBP2NL	CTTNBP2 N-terminal-like protein
Cluster -1272	ECH1	Delta(3,5)-Delta(2,4)-dienoyl-CoA isomerase, mitochondrial
Cluster -1272	MRS2	Magnesium transporter MRS2 homolog, mitochondrial
Cluster -1272	NPM3	Nucleoplasmin-3
Cluster -1272	HSPA5	78 kDa glucose-regulated protein
Cluster -1272	CPT2	Carnitine O-palmitoyltransferase 2, mitochondrial
Cluster -1272	UQCRQ	Cytochrome b-c1 complex subunit 8
Cluster -1272	NFS1	Cysteine desulfurase, mitochondrial
Cluster -1272	PDP1	[Pyruvate dehydrogenase [acetyl-transferring]]-phosphatase 1, mitochondrial

Cluster -1272	MRPS31	28S ribosomal protein S31, mitochondrial
Cluster -1272	MRPS9	28S ribosomal protein S9, mitochondrial
Cluster -1272	IDH3A	Isocitrate dehydrogenase [NAD] subunit alpha, mitochondrial
Cluster -1272	IVD	Isovaleryl-CoA dehydrogenase, mitochondrial
Cluster -1272	BCS1L	Mitochondrial chaperone BCS1
Cluster -1272	PTGES2	Prostaglandin E synthase 2;Prostaglandin E synthase 2 truncated form
Cluster -1272	HEATR1	HEAT repeat-containing protein 1;HEAT repeat-containing protein 1, N-terminally processed
Cluster -1272	CLPB	N/A
Cluster -1272	DAPK3	Death-associated protein kinase 3
Cluster -1272	SDHA	Succinate dehydrogenase [ubiquinone] flavoprotein subunit, mitochondrial
Cluster -1272	ECI1;DCI	Enoyl-CoA delta isomerase 1, mitochondrial
Cluster -1272	ATP5D	ATP synthase subunit delta, mitochondrial
Cluster -1272	FAM8A1	Protein FAM8A1
Cluster -1272	RBM14	RNA-binding protein 14
Cluster -1272	MMP14	Matrix metalloproteinase-14
Cluster -1272	HLA-C	HLA class I histocompatibility antigen, Cw-7 alpha chain
Cluster -1272	MAP2K3	Dual specificity mitogen-activated protein kinase kinase 3
Cluster -1272	IMPDH2	Inosine-5-monophosphate dehydrogenase 2
Cluster -1272	GPR107	Protein GPR107
Cluster -1272	FAM162A	Protein FAM162A
Cluster -1272	PPP6R3	Serine/threonine-protein phosphatase 6 regulatory subunit 3
Cluster -1272	NUP155	Nuclear pore complex protein Nup155
Cluster -1272	ARHGAP20	Rho GTPase-activating protein 20
Cluster -1272	RNF213	E3 ubiquitin-protein ligase RNF213
Cluster -1272	NADSYN1	Glutamine-dependent NAD(+) synthetase
Cluster -1272	POFUT2	GDP-fucose protein O-fucosyltransferase 2
Cluster -1272	EMC7	ER membrane protein complex subunit 7
Cluster -1272	TMEM165	Transmembrane protein 165
Cluster -1272	PRPF38A	Pre-mRNA-splicing factor 38A
Cluster -1272	TFRC	Transferrin receptor protein 1;Transferrin receptor protein 1, serum form
Cluster -1272	ADAM10	Disintegrin and metalloproteinase domain-containing protein 10
Cluster -1272	HSD17B11	Estradiol 17-beta-dehydrogenase 11
Cluster -1272	SCFD2	Sec1 family domain-containing protein 2
Cluster -1272	AP1S1	AP-1 complex subunit sigma-1A
Cluster -1272	SP100	Nuclear autoantigen Sp-100
Cluster -1272	MRPL42	39S ribosomal protein L42, mitochondrial
Cluster -1272	FKBP11	Peptidyl-prolyl cis-trans isomerase FKBP11;Peptidyl-prolyl cis-trans isomerase

Cluster -1272	ERAP1	Endoplasmic reticulum aminopeptidase 1
Cluster -1272	SOS1	Son of sevenless homolog 1
Cluster -1272	ARHGAP29	Rho GTPase-activating protein 29
Cluster -1272	ATR	Serine/threonine-protein kinase ATR
Cluster -1272	TRIP10	Cdc42-interacting protein 4
Cluster -1272	NUP88	Nuclear pore complex protein Nup88
Cluster -1272	C11orf73	Protein Hikeshi
Cluster -1272	ACSL1	Long-chain-fatty-acid--CoA ligase 1
Cluster -1272	ATP13A3	Probable cation-transporting ATPase 13A3
Cluster -1272	PIP5K2	Inositol hexakisphosphate and diphosphoinositol-pentakisphosphate kinase 2

Table S2: Clusters of differentially expressed proteins (patient-derived cells)

Cluster	Gene.names	Protein.names
Cluster -1198	CHMP4B	Charged multivesicular body protein 4b
Cluster -1198	SERBP1	Plasminogen activator inhibitor 1 RNA-binding protein
Cluster -1198	ASL	Argininosuccinate lyase
Cluster -1198	TP53BP1	Tumor suppressor p53-binding protein 1
Cluster -1198	METAP2	Methionine aminopeptidase 2
Cluster -1198	DBNL	Drebrin-like protein
Cluster -1198	CLTB	Clathrin light chain B
Cluster -1198	SRSF3	Serine/arginine-rich splicing factor 3
Cluster -1198	SRSF1	Serine/arginine-rich splicing factor 1
Cluster -1198	YBX3	Y-box-binding protein 3
Cluster -1198	WDR77	Methylosome protein 50
Cluster -1198	CTBP1	C-terminal-binding protein 1
Cluster -1198	HNRNPD	Heterogeneous nuclear ribonucleoprotein D0
Cluster -1198	EIF4G1	Eukaryotic translation initiation factor 4 gamma 1
Cluster -1198	HEBP1	Heme-binding protein 1
Cluster -1198	GUK1	Guanylate kinase
Cluster -1198	ARPC1A	Actin-related protein 2/3 complex subunit 1A
Cluster -1198	CEP170	Centrosomal protein of 170 kDa
Cluster -1198	BPNT1	3(2),5-bisphosphate nucleotidase 1
Cluster -1198	USP9X	Probable ubiquitin carboxyl-terminal hydrolase FAF-X
Cluster -1198	LAMTOR1	Ragulator complex protein LAMTOR1
Cluster -1198	EIF4A2	Eukaryotic initiation factor 4A-II;Eukaryotic initiation factor 4A-II, N-terminally processed
Cluster -1198	DYNC1I2	Cytoplasmic dynein 1 intermediate chain 2
Cluster -1198	EIF2S3;EIF2S3L	Eukaryotic translation initiation factor 2 subunit 3;Putative eukaryotic translation initiation factor 2 subunit 3-like protein
Cluster -1198	ESD	S-formylglutathione hydrolase
Cluster -1198	CTSD	Cathepsin D;Cathepsin D light chain;Cathepsin D heavy chain
Cluster -1198	TOM1	Target of Myb protein 1
Cluster -1198	ACTR3	Actin-related protein 3
Cluster -1198	SRSF7	Serine/arginine-rich splicing factor 7
Cluster -1198	GSTM3	Glutathione S-transferase Mu 3
Cluster -1198	SERBP1	Plasminogen activator inhibitor 1 RNA-binding protein
Cluster -1198	STIP1	Stress-induced-phosphoprotein 1
Cluster -1198	PTBP1	Polypyrimidine tract-binding protein 1
Cluster -1198	HNRNPA1;HNRNPA1L2	Heterogeneous nuclear ribonucleoprotein A1;Heterogeneous nuclear ribonucleoprotein A1, N-terminally processed;Heterogeneous nuclear ribonucleoprotein A1-like



		2
Cluster -1198	RAB23	Ras-related protein Rab-23
Cluster -1198	ILF3	Interleukin enhancer-binding factor 3
Cluster -1198	HNRNPA2B1	Heterogeneous nuclear ribonucleoproteins A2/B1
Cluster -1198	RBMX;RBMXL1	RNA-binding motif protein, X chromosome;RNA-binding motif protein, X chromosome, N-terminally processed;RNA binding motif protein, X-linked-like-1
Cluster -1198	MTHFD1	C-1-tetrahydrofolate synthase, cytoplasmic;Methylenetetrahydrofolate dehydrogenase;Methenyltetrahydrofolate cyclohydrolase;Formyltetrahydrofolate synthetase;C-1-tetrahydrofolate synthase, cytoplasmic, N-terminally processed
Cluster -1198	PFN2	Profilin-2;Profilin
Cluster -1198	BLVRA	Biliverdin reductase A
Cluster -1198	AK1	Adenylate kinase isoenzyme 1
Cluster -1198	SNX12	Sorting nexin-12
Cluster -1198	KPNA4	Importin subunit alpha-3
Cluster -1198	SGTA	Small glutamine-rich tetratricopeptide repeat-containing protein alpha
Cluster -1198	PTGR1	Prostaglandin reductase 1
Cluster -1198	SOS1	Son of sevenless homolog 1
Cluster -1198	HSP90AB2P	Putative heat shock protein HSP 90-beta 2
Cluster -1198	HINT1	Histidine triad nucleotide-binding protein 1
Cluster -1198	PPP3R1	Calcineurin subunit B type 1
Cluster -1198	IPO5	Importin-5
Cluster -1198	EIF3A	Eukaryotic translation initiation factor 3 subunit A
Cluster -1198	MAPK1	Mitogen-activated protein kinase 1
Cluster -1198	BID	BH3-interacting domain death agonist;BH3-interacting domain death agonist p15;BH3-interacting domain death agonist p13;BH3-interacting domain death agonist p11
Cluster -1198	LGMN	Legumain
Cluster -1198	LPP	Lipoma-preferred partner
Cluster -1198	LRRC47	Leucine-rich repeat-containing protein 47
Cluster -1198	NEDD8;NEDD8-MDP1	NEDD8
Cluster -1198	RAB35	Ras-related protein Rab-35
Cluster -1198	ARCN1	Coatomer subunit delta
Cluster -1198	PDLIM4	PDZ and LIM domain protein 4
Cluster -1198	PRDX1	Peroxiredoxin-1
Cluster -1198	PGAM1	Phosphoglycerate mutase 1
Cluster -1198	PCMT1	Protein-L-isoaspartate(D-aspartate) O-methyltransferase;Protein-L-isoaspartate O-methyltransferase
Cluster -1198	GSTM2	Glutathione S-transferase Mu 2

Cluster -1198	UBA2	SUMO-activating enzyme subunit 2
Cluster -1198	ASMTL	N-acetylserotonin O-methyltransferase-like protein
Cluster -1198	GLRX	Glutaredoxin-1
Cluster -1198	TNKS1BP1	182 kDa tankyrase-1-binding protein
Cluster -1198	G3BP1	Ras GTPase-activating protein-binding protein 1
Cluster -1198	CASK	Peripheral plasma membrane protein CASK
Cluster -1198	PTPN11	Tyrosine-protein phosphatase non-receptor type 11
Cluster -1198	CTTN	Src substrate cortactin
Cluster -1198	RAC1;RAC2;RAC3	Ras-related C3 botulinum toxin substrate 1;Ras-related C3 botulinum toxin substrate 2;Ras-related C3 botulinum toxin substrate 3
Cluster -1198	EIF5B	Eukaryotic translation initiation factor 5B
Cluster -1198	ARPP19	cAMP-regulated phosphoprotein 19
Cluster -1198	ASS1	Argininosuccinate synthase
Cluster -1198	ACPI	Low molecular weight phosphotyrosine protein phosphatase
Cluster -1198	LPXN	Leupaxin
Cluster -1198	COPZ2	Coatamer subunit zeta-2
Cluster -1198	LMCD1	LIM and cysteine-rich domains protein 1
Cluster -1198	OSTF1	Osteoclast-stimulating factor 1
Cluster -1198	RPL8	60S ribosomal protein L8
Cluster -1198	EEF1D	Elongation factor 1-delta
Cluster -1198	CSTB	Cystatin-B
Cluster -1198	LAP3	Cytosol aminopeptidase
Cluster -1198	RPS27	40S ribosomal protein S27
Cluster -1198	KARS	Lysine--tRNA ligase
Cluster -1198	PPM1A	Protein phosphatase 1A
Cluster -1198	PDCD10	Programmed cell death protein 10
Cluster -1198	PLAA	Phospholipase A-2-activating protein
Cluster -1198	DCTN3	Dynactin subunit 3
Cluster -1198	STRN	Striatin
Cluster -1198	BST1	ADP-ribosyl cyclase/cyclic ADP-ribose hydrolase 2
Cluster -1198	YKT6	Synaptobrevin homolog YKT6
Cluster -1198	PPIL1	Peptidyl-prolyl cis-trans isomerase-like 1
Cluster -1198	OSBPL3	Oxysterol-binding protein-related protein 3
Cluster -1198	BCL2L13	Bcl-2-like protein 13
Cluster -1198	HERC4	Probable E3 ubiquitin-protein ligase HERC4
Cluster -1198	TPM4	Tropomyosin alpha-4 chain
Cluster -1198	08-set	Septin-8
Cluster -1198	AIMP1	Aminoacyl tRNA synthase complex-interacting multifunctional protein 1;Endothelial monocyte-activating polypeptide 2
Cluster -1198	CLINT1	Clathrin interactor 1

Cluster -1198	CNN1	Calponin-1;Calponin
Cluster -1198	BLVRB	Flavin reductase (NADPH)
Cluster -1198	USP5	Ubiquitin carboxyl-terminal hydrolase 5
Cluster -1198	DPYSL3	Dihydropyrimidinase-related protein 3
Cluster -1198	ARPC5L	Actin-related protein 2/3 complex subunit 5-like protein
Cluster -1198	RABGAP1	Rab GTPase-activating protein 1
Cluster -1198	LUC7L2	Putative RNA-binding protein Luc7-like 2
Cluster -1198	RBM3	RNA-binding protein 3
Cluster -1198	BTF3	Transcription factor BTF3
Cluster -1198	CTSL	Cathepsin L1;Cathepsin L1 heavy chain;Cathepsin L1 light chain
Cluster -1198	NCL	Nucleolin
Cluster -1198	PEA15	Astrocytic phosphoprotein PEA-15
Cluster -1198	PPIA	Peptidyl-prolyl cis-trans isomerase A;Peptidyl-prolyl cis-trans isomerase A, N-terminally processed;Peptidyl-prolyl cis-trans isomerase
Cluster -1198	YWHAE	14-3-3 protein epsilon
Cluster -1198	NME1	Nucleoside diphosphate kinase A
Cluster -1198	AHCY	Adenosylhomocysteinase
Cluster -1198	PLS3	Plastin-3
Cluster -1198	ACTN1	Alpha-actinin-1
Cluster -1198	ALDOA	Fructose-bisphosphate aldolase A;Fructose-bisphosphate aldolase
Cluster -1198	LDHA	L-lactate dehydrogenase A chain
Cluster -1198	ACTN4	Alpha-actinin-4
Cluster -1198	LSM1	U6 snRNA-associated Sm-like protein LSM1
Cluster -1198	UGP2	UTP--glucose-1-phosphate uridylyltransferase
Cluster -1198	GPI	Glucose-6-phosphate isomerase
Cluster -1198	VAPB	Vesicle-associated membrane protein-associated protein B/C
Cluster -1198	TIAL1;TIA1	Nucleolysin TIAR
Cluster -1198	PSMB5	Proteasome subunit beta type-5
Cluster -1198	KDSR	3-ketodihydrosphingosine reductase
Cluster -1198	PXN	Paxillin
Cluster -1198	ARPC4;ARPC4-TTLL3	Actin-related protein 2/3 complex subunit 4
Cluster -1198	BOLA2	BolA-like protein 2
Cluster -1198	ARPC2	Actin-related protein 2/3 complex subunit 2
Cluster -1198	FHL1	Four and a half LIM domains protein 1
Cluster -1198	CCDC74A;CCDC74B	Coiled-coil domain-containing protein 74A;Coiled-coil domain-containing protein 74B
Cluster -1198	PNP	Purine nucleoside phosphorylase
Cluster -1198	AKAP12	A-kinase anchor protein 12
Cluster -1198	RILPL1	RILP-like protein 1

Cluster -1198	RNPEP	Aminopeptidase B
Cluster -1198	CENPE	Centromere-associated protein E;Kinesin-like protein
Cluster -1198	DSTN	Destrin
Cluster -1198	ZNF207	BUB3-interacting and GLEBS motif-containing protein ZNF207
Cluster -1198	HN1	Hematological and neurological expressed 1 protein;Hematological and neurological expressed 1 protein, N-terminally processed
Cluster -1198	UBLCP1	Ubiquitin-like domain-containing CTD phosphatase 1
Cluster -1198	SYNPO2	Synaptopodin-2
Cluster -1198	ZYX	Zyxin
Cluster -1198	CRKL	Crk-like protein
Cluster -1198	FAM195B	Protein FAM195B
Cluster -1198	TAGLN	Transgelin
Cluster -1198	07-set	Septin-7
Cluster -1198	CALD1	Caldesmon
Cluster -1198	ATAD1	ATPase family AAA domain-containing protein 1
Cluster -1198	SEPT11;SEPT6	Septin-11;Septin-6
Cluster -1198	CTNNA1	Catenin alpha-1
Cluster -1198	MAP2K2	Dual specificity mitogen-activated protein kinase kinase 2
Cluster -1198	02-set	Septin-2
Cluster -1198	CAPZA1	F-actin-capping protein subunit alpha-1
Cluster -1198	UBA1	Ubiquitin-like modifier-activating enzyme 1
Cluster -1198	HSP90AA1	Heat shock protein HSP 90-alpha
Cluster -1198	PKM	Pyruvate kinase PKM;Pyruvate kinase
Cluster -1198	CLIC4	Chloride intracellular channel protein 4
Cluster -1198	TLN1	Talin-1
Cluster -1198	STRAP	Serine-threonine kinase receptor-associated protein
Cluster -1198	FERMT2	Fermitin family homolog 2
Cluster -1198	CCT3	T-complex protein 1 subunit gamma
Cluster -1198	CBR1	Carbonyl reductase [NADPH] 1
Cluster -1198	MAP1B	Microtubule-associated protein 1B;MAP1B heavy chain;MAP1 light chain LC1
Cluster -1198	AKAP2	A-kinase anchor protein 2
Cluster -1198	HSPB7;DKFZp779D0968	Heat shock protein beta-7
Cluster -1198	PLEC	Plectin
Cluster -1198	AHNAK	Neuroblast differentiation-associated protein AHNAK
Cluster -1198	CAPZA2	F-actin-capping protein subunit alpha-2
Cluster -1198	HSPA8	Heat shock cognate 71 kDa protein
Cluster -1198	VIM	Vimentin
Cluster -1198	CAPN1	Calpain-1 catalytic subunit

Cluster -1198	RAB11FIP5	Rab11 family-interacting protein 5
Cluster -1198	PGK1	Phosphoglycerate kinase 1
Cluster -1198	CNN2	Calponin-2;Calponin
Cluster -1198	SYNC	Syncoilin
Cluster -1198	APEH	Acylamino-acid-releasing enzyme
Cluster -1198	SAP18	Histone deacetylase complex subunit SAP18
Cluster -1198	TAB1	TGF-beta-activated kinase 1 and MAP3K7-binding protein 1
Cluster -1198	CBFB	Core-binding factor subunit beta
Cluster -1198	ATP5H	ATP synthase subunit d, mitochondrial
Cluster -1198	ELAVL1	ELAV-like protein 1
Cluster -1198	ERH	Enhancer of rudimentary homolog
Cluster -1198	RPLP2	60S acidic ribosomal protein P2
Cluster -1198	HIST1H1E;HIST1H1C;HIST1H1D;HIST1H1A;HIST1H1T	Histone H1.4;Histone H1.2;Histone H1.3;Histone H1.1;Histone H1t
Cluster -1198	PCBP1	Poly(rC)-binding protein 1
Cluster -1198	GTF3C3	General transcription factor 3C polypeptide 3
Cluster -1198	CUTA	Protein CutA
Cluster -1198	PGM2	Phosphoglucomutase-2
Cluster -1198	AHNAK2	Protein AHNAK2
Cluster -1198	ACTBL2	Beta-actin-like protein 2
Cluster -1198	FHL2	Four and a half LIM domains protein 2
Cluster -1198	PTP4A2;PTP4A1	Protein tyrosine phosphatase type IVA 2;Protein tyrosine phosphatase type IVA 1
Cluster -1198	NHP2L1	NHP2-like protein 1;NHP2-like protein 1, N-terminally processed
Cluster -1198	IRF2BP2	Interferon regulatory factor 2-binding protein 2
Cluster -1198	ABRACL	Costars family protein ABRACL
Cluster -1198	SERPINB1	Leukocyte elastase inhibitor
Cluster -1198	SNRPA	U1 small nuclear ribonucleoprotein A
Cluster -1198	NACA	Nascent polypeptide-associated complex subunit alpha, muscle-specific form;Nascent polypeptide-associated complex subunit alpha
Cluster -1198	API5	Apoptosis inhibitor 5
Cluster -1198	L3HYPDH	Trans-3-hydroxy-L-proline dehydratase
Cluster -1198	ANP32A	Acidic leucine-rich nuclear phosphoprotein 32 family member A
Cluster -1198	MARCKS	Myristoylated alanine-rich C-kinase substrate
Cluster -1198	NUDT5	ADP-sugar pyrophosphatase
Cluster -1198	SYNCRIP	Heterogeneous nuclear ribonucleoprotein Q
Cluster -1198	BRK1	Protein BRICK1
Cluster -1198	RCC1	Regulator of chromosome condensation

Cluster -1198	YBX1	Nuclease-sensitive element-binding protein 1
Cluster -1198	RPL10A	60S ribosomal protein L10a
Cluster -1198	RPL7A	60S ribosomal protein L7a
Cluster -1198	UBAP2L	Ubiquitin-associated protein 2-like
Cluster -1198	PGD	6-phosphogluconate dehydrogenase, decarboxylating
Cluster -1198	FUBP1	Far upstream element-binding protein 1
Cluster -1198	PRDX6	Peroxiredoxin-6
Cluster -1198	TPM4	Tropomyosin alpha-4 chain
Cluster -1198	TP53I3	Quinone oxidoreductase PIG3
Cluster -1198	PDLIM2	PDZ and LIM domain protein 2
Cluster -1198	TUBAL3	Tubulin alpha chain-like 3
Cluster -1198	USMG5	Up-regulated during skeletal muscle growth protein 5
Cluster -1198	PDAP1	28 kDa heat- and acid-stable phosphoprotein
Cluster -1198	SRP9;DKFZp564 M2223	Signal recognition particle 9 kDa protein
Cluster -1198	RPL18A	60S ribosomal protein L18a
Cluster -1198	PSAT1	Phosphoserine aminotransferase
Cluster -1198	EPB41L2	Band 4.1-like protein 2
Cluster -1198	RDX	Radixin
Cluster -1198	PTK2	Focal adhesion kinase 1
Cluster -1198	APEX1	DNA-(apurinic or apyrimidinic site) lyase;DNA-(apurinic or apyrimidinic site) lyase, mitochondrial
Cluster -1198	PSMA4	Proteasome subunit alpha type-4;Proteasome subunit alpha type;Proteasome subunit beta type
Cluster -1198	UAP1	UDP-N-acetylhexosamine pyrophosphorylase;UDP-N-acetylgalactosamine pyrophosphorylase;UDP-N-acetylglucosamine pyrophosphorylase
Cluster -1198	LIMA1	LIM domain and actin-binding protein 1
Cluster -1198	NUDC	Nuclear migration protein nudC
Cluster -1198	CAND1	Cullin-associated NEDD8-dissociated protein 1
Cluster -1198	BLMH	Bleomycin hydrolase
Cluster -1198	PSMA7;PSMA8	Proteasome subunit alpha type-7;Proteasome subunit alpha type-7-like
Cluster -1198	HPRT1	Hypoxanthine-guanine phosphoribosyltransferase
Cluster -1198	AP2M1	AP-2 complex subunit mu
Cluster -1198	RAP1GDS1	Rap1 GTPase-GDP dissociation stimulator 1
Cluster -1198	GBE1	1,4-alpha-glucan-branching enzyme
Cluster -1198	EIF2S1	Eukaryotic translation initiation factor 2 subunit 1
Cluster -1198	CDC42	Cell division control protein 42 homolog
Cluster -1198	PARP4	Poly [ADP-ribose] polymerase 4
Cluster -1198	TPT1	Translationally-controlled tumor protein
Cluster -1198	GDI1	Rab GDP dissociation inhibitor alpha
Cluster -1198	MACF1	Microtubule-actin cross-linking factor 1, isoforms 1/2/3/5

Cluster -1198	DCTN2	Dynactin subunit 2
Cluster -1198	TPM3	N/A
Cluster -1198	AHSA1	Activator of 90 kDa heat shock protein ATPase homolog 1
Cluster -1198	CNRIP1	CB1 cannabinoid receptor-interacting protein 1
Cluster -1198	KATNAL2	Katanin p60 ATPase-containing subunit A-like 2
Cluster -1198	RANBP1	Ran-specific GTPase-activating protein
Cluster -1198	KHSRP	Far upstream element-binding protein 2
Cluster -1198	PSMB8;PSM8	Proteasome subunit beta type-8;Proteasome subunit beta type
Cluster -1198	PRPF19	Pre-mRNA-processing factor 19
Cluster -1198	PDCD5	Programmed cell death protein 5
Cluster -1198	RPS19	40S ribosomal protein S19
Cluster -1198	SF3B4	Splicing factor 3B subunit 4
Cluster -1198	PI4K2A	Phosphatidylinositol 4-kinase type 2-alpha
Cluster -1198	WDFY1	WD repeat and FYVE domain-containing protein 1
Cluster -1198	COPS2	COP9 signalosome complex subunit 2
Cluster -1198	USP14	Ubiquitin carboxyl-terminal hydrolase 14;Ubiquitin carboxyl-terminal hydrolase
Cluster -1198	VPS29	Vacuolar protein sorting-associated protein 29
Cluster -1198	CCDC124	Coiled-coil domain-containing protein 124
Cluster -1198	UBE2A	Ubiquitin-conjugating enzyme E2 A
Cluster -1198	IAH1	Isoamyl acetate-hydrolyzing esterase 1 homolog
Cluster -1198	PNPO	Pyridoxine-5-phosphate oxidase
Cluster -1198	TXNRD1	Thioredoxin reductase 1, cytoplasmic
Cluster -1198	DYNLRB1	Dynein light chain roadblock-type 1
Cluster -1198	SET;SETSIP	Protein SET;Protein SETSIP
Cluster -1198	RRBP1	Ribosome-binding protein 1
Cluster -1198	EIF3B	Eukaryotic translation initiation factor 3 subunit B
Cluster -1198	TALDO1	Transaldolase
Cluster -1198	RPL12	60S ribosomal protein L12
Cluster -1198	HSP90AB1	Heat shock protein HSP 90-beta
Cluster -1198	WARS	Tryptophan--tRNA ligase, cytoplasmic;T1-TrpRS;T2-TrpRS
Cluster -1198	PPP1CB	Serine/threonine-protein phosphatase PP1-beta catalytic subunit;Serine/threonine-protein phosphatase
Cluster -1198	TOM1L2	TOM1-like protein 2
Cluster -1198	GOLGB1	Golgin subfamily B member 1
Cluster -1198	MTPN	Myotrophin
Cluster -1198	RAD23B	UV excision repair protein RAD23 homolog B
Cluster -1198	ALAD	Delta-aminolevulinic acid dehydratase
Cluster -1198	ATOX1	Copper transport protein ATOX1
Cluster -1198	TCP11L1	T-complex protein 11-like protein 1
Cluster -1198	CFL2	Cofilin-2

Cluster -1198	RHOA	Transforming protein RhoA
Cluster -1198	DNAJC8	DnaJ homolog subfamily C member 8
Cluster -1198	PDLIM1	PDZ and LIM domain protein 1
Cluster -1198	SWAP70	Switch-associated protein 70
Cluster -1198	LSM8	U6 snRNA-associated Sm-like protein LSm8
Cluster -1198	UBE2D3;UBE2D2;UBE2D4;UBE2D1	Ubiquitin-conjugating enzyme E2 D3;Ubiquitin-conjugating enzyme E2 D2;Ubiquitin-conjugating enzyme E2 D4;Ubiquitin-conjugating enzyme E2 D1
Cluster -1198	FGF2	Fibroblast growth factor 2
Cluster -1198	DDB1	DNA damage-binding protein 1
Cluster -1198	RAN	GTP-binding nuclear protein Ran
Cluster -1198	GNB2L1	Guanine nucleotide-binding protein subunit beta-2-like 1;Guanine nucleotide-binding protein subunit beta-2-like 1, N-terminally processed
Cluster -1198	RPS11	40S ribosomal protein S11
Cluster -1198	NANS	Sialic acid synthase
Cluster -1198	EIF4H	Eukaryotic translation initiation factor 4H
Cluster -1198	RPL13	60S ribosomal protein L13
Cluster -1198	TXNL1	Thioredoxin-like protein 1
Cluster -1198	RNH1	Ribonuclease inhibitor
Cluster -1198	HSPH1	Heat shock protein 105 kDa
Cluster -1198	PCNA	Proliferating cell nuclear antigen
Cluster -1198	CLTA	Clathrin light chain A
Cluster -1198	GSK3B	Glycogen synthase kinase-3 beta
Cluster -1198	RPL23	60S ribosomal protein L23
Cluster -1198	FKBP3	Peptidyl-prolyl cis-trans isomerase FKBP3
Cluster -1198	GRB2	Growth factor receptor-bound protein 2
Cluster -1198	ENSA	Alpha-endosulfine
Cluster -1198	RPL36AL;RPL36A;RPL36A-HNRNPH2	60S ribosomal protein L36a-like;60S ribosomal protein L36a
Cluster -1198	RELA	Transcription factor p65
Cluster -1198	ST13;ST13P4;ST13P5	Hsc70-interacting protein;Putative protein FAM10A4;Putative protein FAM10A5
Cluster -1198	PSMB3	Proteasome subunit beta type-3
Cluster -1198	EIF4E	Eukaryotic translation initiation factor 4E
Cluster -1198	RPL35	60S ribosomal protein L35
Cluster -1198	HIST1H3A	Histone H3.1
Cluster -1198	TPM1	N/A
Cluster -1198	TPD52L2	Tumor protein D54
Cluster -1198	GNPDA1	Glucosamine-6-phosphate isomerase 1;Glucosamine-6-phosphate isomerase
Cluster -1198	EIF1;EIF1B	Eukaryotic translation initiation factor 1;Eukaryotic



		translation initiation factor 1b
Cluster -1198	STXBP4	Syntaxin-binding protein 4
Cluster -1198	S100A11	Protein S100-A11;Protein S100-A11, N-terminally processed
Cluster -1198	TCEB1	Transcription elongation factor B polypeptide 1
Cluster -1198	PSMD10	26S proteasome non-ATPase regulatory subunit 10
Cluster -1198	LDHB	L-lactate dehydrogenase B chain;L-lactate dehydrogenase
Cluster -1198	MDH1	Malate dehydrogenase, cytoplasmic;Malate dehydrogenase
Cluster -1198	TPI1	Triosephosphate isomerase
Cluster -1198	VCL	Vinculin
Cluster -1198	AKR1A1	Alcohol dehydrogenase [NADP(+)]
Cluster -1198	ADH5	Alcohol dehydrogenase class-3
Cluster -1198	PFN1	Profilin-1
Cluster -1198	CFL1	Cofilin-1
Cluster -1198	CLIC1	Chloride intracellular channel protein 1
Cluster -1198	UBQLN1	Ubiquilin-1
Cluster -1198	PSME1	Proteasome activator complex subunit 1
Cluster -1198	CAP1	Adenylyl cyclase-associated protein 1
Cluster -1198	UBE2L3	Ubiquitin-conjugating enzyme E2 L3
Cluster -1198	YWHAB	14-3-3 protein beta/alpha;14-3-3 protein beta/alpha, N-terminally processed
Cluster -1198	GSTP1	Glutathione S-transferase P
Cluster -1198	YWHAQ	14-3-3 protein theta
Cluster -1198	PARVA	Alpha-parvin
Cluster -1198	MOB1B;MOB1A	MOB kinase activator 1B;MOB kinase activator 1A
Cluster -1198	TWF2	Twinfilin-2
Cluster -1198	GSTO1	Glutathione S-transferase omega-1
Cluster -1198	EIF3K	Eukaryotic translation initiation factor 3 subunit K
Cluster -1198	VBP1	Prefoldin subunit 3
Cluster -1198	09-set	Septin-9
Cluster -1198	NUDCD1	NudC domain-containing protein 1
Cluster -1198	PAK2	Serine/threonine-protein kinase PAK 2;PAK-2p27;PAK-2p34
Cluster -1198	PIN1	Peptidyl-prolyl cis-trans isomerase NIMA-interacting 1
Cluster -1198	PGM1	Phosphoglucomutase-1
Cluster -1198	NECAP2	Adaptin ear-binding coat-associated protein 2
Cluster -1198	TXLNA	Alpha-taxilin
Cluster -1198	ARL3	ADP-ribosylation factor-like protein 3
Cluster -1198	PSMB1	Proteasome subunit beta type-1
Cluster -1198	FARSA	Phenylalanine--tRNA ligase alpha subunit
Cluster -1198	CBX1	Chromobox protein homolog 1
Cluster -1198	TXNDC17	Thioredoxin domain-containing protein 17

Cluster -1198	GPX1	Glutathione peroxidase 1;Glutathione peroxidase
Cluster -1198	C1orf123	UPF0587 protein C1orf123
Cluster -1198	NMT1	Glycylpeptide N-tetradecanoyltransferase 1
Cluster -1198	MSN	Moesin
Cluster -1198	GOT1	Aspartate aminotransferase, cytoplasmic
Cluster -1198	PSMA6	Proteasome subunit alpha type-6;Proteasome subunit alpha type
Cluster -1198	AIP	AH receptor-interacting protein
Cluster -1198	FAM114A1	Protein NOXP20
Cluster -1198	RPS21	40S ribosomal protein S21
Cluster -1198	MAP4	Microtubule-associated protein 4;Microtubule-associated protein
Cluster -1198	PSMB2	Proteasome subunit beta type-2
Cluster -1198	EXOC7	Exocyst complex component 7
Cluster -1198	PARK7	Protein deglycase DJ-1
Cluster -1198	HDGF	Hepatoma-derived growth factor
Cluster -1198	PPP1R7	Protein phosphatase 1 regulatory subunit 7
Cluster -1198	PGLS	6-phosphogluconolactonase
Cluster -1198	PRKACG	cAMP-dependent protein kinase catalytic subunit gamma
Cluster -1198	OLA1	Obg-like ATPase 1
Cluster -1198	EEF1B2	Elongation factor 1-beta
Cluster -1198	COTL1	Coactosin-like protein
Cluster -1198	EZR	Ezrin
Cluster -1198	DDT;DDTL	D-dopachrome decarboxylase;D-dopachrome decarboxylase-like protein
Cluster -1198	UBE2I	SUMO-conjugating enzyme UBC9
Cluster -1198	CORO1C	Coronin-1C;Coronin
Cluster -1198	YWHAH	14-3-3 protein eta
Cluster -1198	SCRN2	Secernin-2
Cluster -1198	CAST	Calpastatin
Cluster -1198	DNAH2	Dynein heavy chain 2, axonemal
Cluster -1198	CSRP2	Cysteine and glycine-rich protein 2
Cluster -1198	MAPRE1	Microtubule-associated protein RP/EB family member 1
Cluster -1198	BTF3L4	Transcription factor BTF3 homolog 4;Transcription factor BTF3
Cluster -1198	MAP1A	Microtubule-associated protein 1A;MAP1A heavy chain;MAP1 light chain LC2
Cluster -1198	RPS13	40S ribosomal protein S13
Cluster -1198	OVCA2	Ovarian cancer-associated gene 2 protein
Cluster -1198	GNPDA2	Glucosamine-6-phosphate isomerase 2
Cluster -1198	SF1	Splicing factor 1
Cluster -1198	BASPI	Brain acid soluble protein 1

Cluster -1198	ANKRD17	Ankyrin repeat domain-containing protein 17
Cluster -1198	PITPNB	Phosphatidylinositol transfer protein beta isoform
Cluster -1198	PSMD9	26S proteasome non-ATPase regulatory subunit 9
Cluster -1198	SH3BGRL3	SH3 domain-binding glutamic acid-rich-like protein 3
Cluster -1198	RBBP4	Histone-binding protein RBBP4
Cluster -1198	RALA	Ras-related protein Ral-A
Cluster -1198	PLIN3	Perilipin-3
Cluster -1198	CIRBP	Cold-inducible RNA-binding protein
Cluster -1198	HNRNPDL	Heterogeneous nuclear ribonucleoprotein D-like
Cluster -1198	PTMA	Prothymosin alpha;Prothymosin alpha, N-terminally processed;Thymosin alpha-1
Cluster -1198	PSME2	Proteasome activator complex subunit 2
Cluster -1198	SERPINB2	Plasminogen activator inhibitor 2
Cluster -1198	TMSB4X	Thymosin beta-4;Hematopoietic system regulatory peptide
Cluster -1198	HMOX1	Heme oxygenase 1
Cluster -1198	SH3BGRL	SH3 domain-binding glutamic acid-rich-like protein
Cluster -1198	TMEM189-UBE2V1;UBE2V1	Ubiquitin-conjugating enzyme E2 variant 1
Cluster -1198	GMFB	Glia maturation factor beta
Cluster -1198	CARS	Cysteine--tRNA ligase, cytoplasmic
Cluster -1198	RPS29	40S ribosomal protein S29
Cluster -1198	STMN1	Stathmin
Cluster -1198	PHPT1	14 kDa phosphohistidine phosphatase
Cluster -1198	TAGLN2	Transgelin-2
Cluster -1198	GBP1	Interferon-induced guanylate-binding protein 1
Cluster -1198	TXN	Thioredoxin
Cluster -1198	TKT	Transketolase
Cluster -1198	RSU1	Ras suppressor protein 1
Cluster -1198	PSMA2	Proteasome subunit alpha type-2;Proteasome subunit alpha type
Cluster -1198	PYGL	Glycogen phosphorylase, liver form;Alpha-1,4 glucan phosphorylase
Cluster -1198	CAPG	Macrophage-capping protein
Cluster -1198	CALM2;CALM3;CALM1	N/A
Cluster -1198	UCHL3	Ubiquitin carboxyl-terminal hydrolase isozyme L3;Ubiquitin carboxyl-terminal hydrolase
Cluster -1198	SOD1	Superoxide dismutase [Cu-Zn]
Cluster -1198	EPS15	Epidermal growth factor receptor substrate 15
Cluster -1198	HSPA4	Heat shock 70 kDa protein 4
Cluster -1198	PFDN6	Prefoldin subunit 6
Cluster -1198	CMPK1	UMP-CMP kinase

Cluster -1198	PPA1	Inorganic pyrophosphatase
Cluster -1198	PSMA5	Proteasome subunit alpha type-5
Cluster -1198	YWHAG	14-3-3 protein gamma;14-3-3 protein gamma, N-terminally processed
Cluster -1198	KTN1	Kinectin
Cluster -1198	RPS28	40S ribosomal protein S28
Cluster -1198	UBE2N;UBE2NL	Ubiquitin-conjugating enzyme E2 N;Putative ubiquitin-conjugating enzyme E2 N-like
Cluster -1198	RPS15	40S ribosomal protein S15
Cluster -1198	SSB	Lupus La protein
Cluster -1198	NSFL1C	NSFL1 cofactor p47
Cluster -1198	UBXN4	UBX domain-containing protein 4
Cluster -1198	BAX	Apoptosis regulator BAX
Cluster -1198	PLCG1	1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase gamma-1;Phosphoinositide phospholipase C
Cluster -1198	DBI	Acyl-CoA-binding protein
Cluster -1198	SIPA1	Signal-induced proliferation-associated protein 1
Cluster -1198	FAM129B	Niban-like protein 1
Cluster -1198	CNN3	Calponin-3
Cluster -1198	GNB1	Guanine nucleotide-binding protein G(I)/G(S)/G(T) subunit beta-1
Cluster -1198	VCP	Transitional endoplasmic reticulum ATPase
Cluster -1198	ARHGDI1A	Rho GDP-dissociation inhibitor 1
Cluster -1198	CAPZB	F-actin-capping protein subunit beta
Cluster -1198	GYG1	Glycogenin-1
Cluster -1198	MIF	Macrophage migration inhibitory factor
Cluster -1198	PSMA1	Proteasome subunit alpha type-1;Proteasome subunit alpha type
Cluster -1198	YWHAZ	14-3-3 protein zeta/delta
Cluster -1198	CSRP1	Cysteine and glycine-rich protein 1
Cluster -1198	ETF1	Eukaryotic peptide chain release factor subunit 1
Cluster -1198	ENO1	Alpha-enolase;Enolase
Cluster -1198	RPS6	40S ribosomal protein S6
Cluster -1198	GDI2	Rab GDP dissociation inhibitor beta
Cluster -1198	RPL34	60S ribosomal protein L34
Cluster -1198	NPEPPS	Puromycin-sensitive aminopeptidase
Cluster -1198	UCHL1	Ubiquitin carboxyl-terminal hydrolase isozyme L1;Ubiquitin carboxyl-terminal hydrolase
Cluster -1198	PURA	Transcriptional activator protein Pur-alpha
Cluster -1198	PSMD4	26S proteasome non-ATPase regulatory subunit 4
Cluster -1198	NAMPT	Nicotinamide phosphoribosyltransferase
Cluster -1198	S100A6	Protein S100-A6;Protein S100
Cluster -1198	AKR1B1	Aldose reductase

Cluster -1198	SUGT1	Suppressor of G2 allele of SKP1 homolog
Cluster -1198	COPS3	COP9 signalosome complex subunit 3
Cluster -1198	CRK	Adapter molecule crk
Cluster -1198	PSMA3	Proteasome subunit alpha type-3
Cluster -1198	NME2;NME1- NME2;NME1	Nucleoside diphosphate kinase B;Nucleoside diphosphate kinase
Cluster -1198	CRIP1	Cysteine-rich protein 1
Cluster -1198	VPS28	Vacuolar protein sorting-associated protein 28 homolog
Cluster -1198	UROD	Uroporphyrinogen decarboxylase
Cluster -1198	PFDN1	Prefoldin subunit 1
Cluster -1198	CAB39	Calcium-binding protein 39
Cluster -1198	TWF1	Twinfilin-1
Cluster -1198	ACTR1B	Beta-centractin
Cluster -1198	GSS	Glutathione synthetase
Cluster -1198	GLOD4	Glyoxalase domain-containing protein 4
Cluster -1198	MSRA	Mitochondrial peptide methionine sulfoxide reductase
Cluster -1198	PFDN2	Prefoldin subunit 2
Cluster -1198	STAM	Signal transducing adapter molecule 1
Cluster -1198	GLO1	Lactoylglutathione lyase
Cluster -1198	PRDX2	Peroxiredoxin-2
Cluster -1198	LANCL1	LanC-like protein 1
Cluster -1198	PITPNA	Phosphatidylinositol transfer protein alpha isoform
Cluster -1198	ABHD14B	Alpha/beta hydrolase domain-containing protein 14B
Cluster -1198	LASP1	LIM and SH3 domain protein 1
Cluster -1198	FKBP1A	Peptidyl-prolyl cis-trans isomerase FKBP1A;Peptidyl-prolyl cis-trans isomerase
Cluster -1198	PEBP1	Phosphatidylethanolamine-binding protein 1;Hippocampal cholinergic neurostimulating peptide
Cluster -1198	RPS12	40S ribosomal protein S12
Cluster -1198	DDAH2	N(G),N(G)-dimethylarginine dimethylaminohydrolase 2
Cluster -1198	NUTF2	Nuclear transport factor 2
Cluster -1198	UBE2H	Ubiquitin-conjugating enzyme E2 H
Cluster -1198	ASXL2	Putative Polycomb group protein ASXL2
Cluster -1198	CACYBP	Calcyclin-binding protein
Cluster -1198	LGALS3	Galectin-3;Galectin
Cluster -1198	LGALS1	Galectin-1
Cluster -1198	HARS	Histidine--tRNA ligase, cytoplasmic
Cluster -1198	TSN	Translin
Cluster -1198	LTA4H	Leukotriene A-4 hydrolase
Cluster -1198	PEPD	Xaa-Pro dipeptidase
Cluster -1198	ENO2	Gamma-enolase;Enolase
Cluster -1199	ACAT2	Acetyl-CoA acetyltransferase, cytosolic

Cluster -1199	TFG	Protein TFG
Cluster -1199	FKBP8	Peptidyl-prolyl cis-trans isomerase FKBP8;Peptidyl-prolyl cis-trans isomerase
Cluster -1199	HNRNPH3	Heterogeneous nuclear ribonucleoprotein H3
Cluster -1199	AP3S1	AP-3 complex subunit sigma-1
Cluster -1199	ALYREF	THO complex subunit 4
Cluster -1199	UBXN1	UBX domain-containing protein 1
Cluster -1199	UPF2	Regulator of nonsense transcripts 2
Cluster -1199	NDUFS4	NADH dehydrogenase [ubiquinone] iron-sulfur protein 4, mitochondrial
Cluster -1199	DYNLT1	Dynein light chain Tctex-type 1
Cluster -1199	ATP5L	ATP synthase subunit g, mitochondrial
Cluster -1199	BET1;DKFZp781C0425	BET1 homolog
Cluster -1199	APRT	Adenine phosphoribosyltransferase
Cluster -1199	NENF	Neudesin
Cluster -1199	FAM3C	Protein FAM3C
Cluster -1199	CTPS1	CTP synthase 1;CTP synthase
Cluster -1199	ENDOD1	Endonuclease domain-containing 1 protein
Cluster -1199	KDELRL1	ER lumen protein-retaining receptor 1;ER lumen protein-retaining receptor
Cluster -1199	RTN3	Reticulon-3;Reticulon
Cluster -1199	ASAH1	Acid ceramidase;Acid ceramidase subunit alpha;Acid ceramidase subunit beta
Cluster -1199	TBCD	Tubulin-specific chaperone D
Cluster -1199	SGCB	Beta-sarcoglycan
Cluster -1199	ATM	Serine-protein kinase ATM
Cluster -1199	GCLM	Glutamate--cysteine ligase regulatory subunit
Cluster -1199	RBM14	RNA-binding protein 14
Cluster -1199	ARF1	ADP-ribosylation factor 1
Cluster -1199	TPMT	Thiopurine S-methyltransferase
Cluster -1199	MGLL	Monoglyceride lipase
Cluster -1199	MPST	3-mercaptopyruvate sulfurtransferase;Sulfurtransferase
Cluster -1199	GIGYF2	PERQ amino acid-rich with GYF domain-containing protein 2
Cluster -1199	SRRT	Serrate RNA effector molecule homolog
Cluster -1199	OCC1;C12orf75	Overexpressed in colon carcinoma 1 protein
Cluster -1199	APLP2	Amyloid-like protein 2
Cluster -1199	SF3A1	Splicing factor 3A subunit 1
Cluster -1199	HEBP2	Heme-binding protein 2
Cluster -1199	PURB	Transcriptional activator protein Pur-beta
Cluster -1199	AAK1	Uncharacterized protein FLJ45252
Cluster -1199	NT5C	5(3)-deoxyribonucleotidase, cytosolic type

Cluster -1199	PPP1R18	Phostensin
Cluster -1172	SRP72	Signal recognition particle subunit SRP72
Cluster -1172	CUL2	Cullin-2
Cluster -1172	NFKB1	Nuclear factor NF-kappa-B p105 subunit;Nuclear factor NF-kappa-B p50 subunit
Cluster -1172	ABCF1	ATP-binding cassette sub-family F member 1
Cluster -1172	SNX2	Sorting nexin-2
Cluster -1172	RBM17	Splicing factor 45
Cluster -1179	CD109	CD109 antigen
Cluster -1179	CAMK1	Calcium/calmodulin-dependent protein kinase type 1
Cluster -1179	RBM12B	RNA-binding protein 12B
Cluster -1179	SNX8	Sorting nexin-8
Cluster -1179	PPIB	Peptidyl-prolyl cis-trans isomerase B
Cluster -1179	POFUT2	GDP-fucose protein O-fucosyltransferase 2
Cluster -1179	EXOC1	Exocyst complex component 1
Cluster -1179	RAB8A	Ras-related protein Rab-8A
Cluster -1179	GOSR2	Golgi SNAP receptor complex member 2
Cluster -1179	KPNA1	Importin subunit alpha-5;Importin subunit alpha-5, N-terminally processed
Cluster -1189	U2AF2	Splicing factor U2AF 65 kDa subunit
Cluster -1189	NRD1	Nardilysin
Cluster -1189	PELP1	Proline-, glutamic acid- and leucine-rich protein 1
Cluster -1189	SMAP;C11orf58	Small acidic protein
Cluster -1189	DDX23	Probable ATP-dependent RNA helicase DDX23
Cluster -1189	RAB3GAP1	Rab3 GTPase-activating protein catalytic subunit
Cluster -1189	PSMC6	26S protease regulatory subunit 10B
Cluster -1189	CCT4	T-complex protein 1 subunit delta
Cluster -1189	RDH10	Retinol dehydrogenase 10
Cluster -1189	FASN	Fatty acid synthase;[Acyl-carrier-protein] S-acetyltransferase;[Acyl-carrier-protein] S-malonyltransferase;3-oxoacyl-[acyl-carrier-protein] synthase;3-oxoacyl-[acyl-carrier-protein] reductase;3-hydroxyacyl-[acyl-carrier-protein] dehydratase;Enoyl-[acyl-carrier-protein] reductase;Oleoyl-[acyl-carrier-protein] hydrolase
Cluster -1189	PSMB10	Proteasome subunit beta type-10
Cluster -1189	GFPT2	Glutamine--fructose-6-phosphate aminotransferase [isomerizing] 2
Cluster -1189	PAPSS1	Bifunctional 3-phosphoadenosine 5-phosphosulfate synthase 1;Sulfate adenyltransferase;Adenyl-sulfate kinase
Cluster -1189	SART3	Squamous cell carcinoma antigen recognized by T-cells 3
Cluster -1189	SRP54	Signal recognition particle 54 kDa protein
Cluster -1189	HMGCL	Hydroxymethylglutaryl-CoA lyase, mitochondrial

Cluster -1189	ATP6AP2	Renin receptor
Cluster -1189	UBA3	NEDD8-activating enzyme E1 catalytic subunit
Cluster -1189	SYAP1	Synapse-associated protein 1
Cluster -1189	GCN1L1	Translational activator GCN1
Cluster -1189	ME2	NAD-dependent malic enzyme, mitochondrial
Cluster -1189	CRTAP	Cartilage-associated protein
Cluster -1189	SREBF2	Sterol regulatory element-binding protein 2;Processed sterol regulatory element-binding protein 2
Cluster -1189	GALNT2	Polypeptide N-acetylgalactosaminyltransferase 2;Polypeptide N-acetylgalactosaminyltransferase 2 soluble form
Cluster -1189	ALDH1L1	Cytosolic 10-formyltetrahydrofolate dehydrogenase
Cluster -1189	MCM7	DNA replication licensing factor MCM7
Cluster -1189	AGO2	Protein argonaute-2
Cluster -1189	UBA5	Ubiquitin-like modifier-activating enzyme 5
Cluster -1189	RPL14	60S ribosomal protein L14
Cluster -1189	TMEM173	Stimulator of interferon genes protein
Cluster -1189	TCF25	Transcription factor 25
Cluster -1189	PRKDC	DNA-dependent protein kinase catalytic subunit
Cluster -1189	SF3A3	Splicing factor 3A subunit 3
Cluster -1189	NRBF2	Nuclear receptor-binding factor 2
Cluster -1189	GCC2	GRIP and coiled-coil domain-containing protein 2
Cluster -1189	SKIV2L2	Superkiller viralicidic activity 2-like 2
Cluster -1189	PTK7	Inactive tyrosine-protein kinase 7
Cluster -1189	PMPCB	Mitochondrial-processing peptidase subunit beta
Cluster -1189	TTLL5	Tubulin polyglutamylase TTLL5
Cluster -1189	POP1	Ribonucleases P/MRP protein subunit POP1
Cluster -1189	EML3	Echinoderm microtubule-associated protein-like 3
Cluster -1189	DPY30	Protein dpy-30 homolog
Cluster -1189	COASY	Bifunctional coenzyme A synthase;Phosphopantetheine adenylyltransferase;Dephospho-CoA kinase
Cluster -1189	MICU1	Calcium uptake protein 1, mitochondrial
Cluster -1189	DDX24	ATP-dependent RNA helicase DDX24
Cluster -1189	FBLN2	Fibulin-2
Cluster -1189	ABCB6	ATP-binding cassette sub-family B member 6, mitochondrial
Cluster -1189	PDS5A	Sister chromatid cohesion protein PDS5 homolog A
Cluster -1189	MTOR	Serine/threonine-protein kinase mTOR
Cluster -1189	PLA2G15	Group XV phospholipase A2
Cluster -1189	OGT	UDP-N-acetylglucosamine--peptide N-acetylglucosaminyltransferase 110 kDa subunit
Cluster -1189	NUP54	Nucleoporin p54
Cluster -1189	CNP	2,3-cyclic-nucleotide 3-phosphodiesterase
Cluster -1189	PLXNB2	Plexin-B2



Cluster -1189	PEX19	Peroxisomal biogenesis factor 19
Cluster -1189	DFFA	DNA fragmentation factor subunit alpha
Cluster -1189	PPFIBP1	Liprin-beta-1
Cluster -1189	PLCB3	1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase beta-3
Cluster -1189	ESYT2	Extended synaptotagmin-2
Cluster -1189	APOOL	MICOS complex subunit MIC27
Cluster -1189	GTF2I	General transcription factor II-I
Cluster -1189	FNDC3B	Fibronectin type III domain-containing protein 3B
Cluster -1189	NDUFB10	NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 10
Cluster -1189	DAPK3	Death-associated protein kinase 3
Cluster -1189	LZTFL1	Leucine zipper transcription factor-like protein 1
Cluster -1189	PSME3	Proteasome activator complex subunit 3
Cluster -1189	RAP2B;RAP2C;RAP2A	Ras-related protein Rap-2b;Ras-related protein Rap-2c;Ras-related protein Rap-2a
Cluster -1189	NOC4L	Nucleolar complex protein 4 homolog
Cluster -1189	MYO5A	Unconventional myosin-Va
Cluster -1189	SNRNP200	U5 small nuclear ribonucleoprotein 200 kDa helicase
Cluster -1189	VPS26B	Vacuolar protein sorting-associated protein 26B
Cluster -1189	PI4KA	Phosphatidylinositol 4-kinase alpha
Cluster -1189	TCERG1	Transcription elongation regulator 1
Cluster -1189	PSMD8	26S proteasome non-ATPase regulatory subunit 8
Cluster -1189	BCKDHA	2-oxoisovalerate dehydrogenase subunit alpha, mitochondrial
Cluster -1189	ABR;BCR	Active breakpoint cluster region-related protein;Breakpoint cluster region protein
Cluster -1189	NDUFA6	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 6
Cluster -1189	GLT8D2	Glycosyltransferase 8 domain-containing protein 2
Cluster -1189	CLCC1	Chloride channel CLIC-like protein 1
Cluster -1189	HACD2	Very-long-chain (3R)-3-hydroxyacyl-CoA dehydratase 2
Cluster -1189	C17orf62	Uncharacterized protein C17orf62
Cluster -1189	TRAPPC8	Trafficking protein particle complex subunit 8
Cluster -1189	POFUT1	GDP-fucose protein O-fucosyltransferase 1
Cluster -1189	PNPLA6	Neuropathy target esterase
Cluster -1189	ADRA2A	Alpha-2A adrenergic receptor
Cluster -1189	C20orf27	UPF0687 protein C20orf27
Cluster -1189	IDH3B	Isocitrate dehydrogenase [NAD] subunit beta, mitochondrial;Isocitrate dehydrogenase [NAD] subunit, mitochondrial
Cluster -1189	GPR108	Protein GPR108
Cluster -1189	LRCH3	Leucine-rich repeat and calponin homology domain-containing protein 3

Cluster -1189	VANGL1	Vang-like protein 1
Cluster -1189	COL11A1	Collagen alpha-1(XI) chain
Cluster -1189	AKAP9	A-kinase anchor protein 9
Cluster -1189	YES1	Tyrosine-protein kinase Yes;Non-specific protein-tyrosine kinase
Cluster -1189	TRIO	Triple functional domain protein
Cluster -1189	TMED5	Transmembrane emp24 domain-containing protein 5
Cluster -1189	SZRD1	SUZ domain-containing protein 1
Cluster -1189	HKDC1	Putative hexokinase HKDC1
Cluster -1189	LINC00483	Putative uncharacterized protein encoded by LINC00483
Cluster -1189	TOP1	DNA topoisomerase 1
Cluster -1189	C6orf163	Uncharacterized protein C6orf163
Cluster -1189	CHERP	Calcium homeostasis endoplasmic reticulum protein
Cluster -1189	NAA15	N-alpha-acetyltransferase 15, NatA auxiliary subunit
Cluster -1189	IMPA1	Inositol monophosphatase 1
Cluster -1189	SRP19	Signal recognition particle 19 kDa protein
Cluster -1189	CHMP6	Charged multivesicular body protein 6
Cluster -1189	HACD3	Very-long-chain (3R)-3-hydroxyacyl-CoA dehydratase 3
Cluster -1189	TACO1	Translational activator of cytochrome c oxidase 1
Cluster -1189	NTPCR	Cancer-related nucleoside-triphosphatase
Cluster -1189	SLC25A4	ADP/ATP translocase 1
Cluster -1189	UQCRCQ	Cytochrome b-c1 complex subunit 8
Cluster -1189	VKORC1L1	Vitamin K epoxide reductase complex subunit 1-like protein 1
Cluster -1189	REXO2	Oligoribonuclease, mitochondrial
Cluster -1189	GTPBP4	Nucleolar GTP-binding protein 1
Cluster -1189	LEPREL2	Prolyl 3-hydroxylase 3
Cluster -1189	ITGA6	Integrin alpha-6;Integrin alpha-6 heavy chain;Integrin alpha-6 light chain;Processed integrin alpha-6
Cluster -1189	EEFSEC	Selenocysteine-specific elongation factor
Cluster -1189	TBK1	Serine/threonine-protein kinase TBK1
Cluster -1189	PYCR2	Pyrroline-5-carboxylate reductase 2;Pyrroline-5-carboxylate reductase
Cluster -1189	MCTS1	Malignant T-cell-amplified sequence 1
Cluster -1189	FSIP2	Fibrous sheath-interacting protein 2
Cluster -1189	NOTCH2	Neurogenic locus notch homolog protein 2;Notch 2 extracellular truncation;Notch 2 intracellular domain
Cluster -1189	MRPS36	28S ribosomal protein S36, mitochondrial
Cluster -1189	NES	Nestin
Cluster -1189	GPC4	Glypican-4;Secreted glypican-4
Cluster -1189	NUDT19	Nucleoside diphosphate-linked moiety X motif 19, mitochondrial
Cluster -1189	SERPINB6	Serpin B6

Cluster -1189	HSPB2;HSPB2-C11orf52	Heat shock protein beta-2
Cluster -1193	CSNK2A1;CSNK2A3	Casein kinase II subunit alpha;Casein kinase II subunit alpha 3
Cluster -1193	TNFAIP2	Tumor necrosis factor alpha-induced protein 2
Cluster -1193	LRPPRC	Leucine-rich PPR motif-containing protein, mitochondrial
Cluster -1193	COL6A2	Collagen alpha-2(VI) chain
Cluster -1193	COL6A1	Collagen alpha-1(VI) chain
Cluster -1193	SDF4	45 kDa calcium-binding protein
Cluster -1193	NPC2	Epididymal secretory protein E1
Cluster -1193	PTGIS	Prostacyclin synthase
Cluster -1193	PDIA5	Protein disulfide-isomerase A5
Cluster -1193	PYCR1	Pyroline-5-carboxylate reductase 1, mitochondrial;Pyroline-5-carboxylate reductase
Cluster -1193	SERPINH1	Serpin H1
Cluster -1193	ALDH1L2	Mitochondrial 10-formyltetrahydrofolate dehydrogenase
Cluster -1193	MALSU1	Mitochondrial assembly of ribosomal large subunit protein 1
Cluster -1193	N/A	N/a
Cluster -1193	ACAA2	3-ketoacyl-CoA thiolase, mitochondrial
Cluster -1193	GPD2	Glycerol-3-phosphate dehydrogenase, mitochondrial
Cluster -1193	RANBP2	E3 SUMO-protein ligase RanBP2
Cluster -1193	DCN	Decorin
Cluster -1193	FUT8	Alpha-(1,6)-fucosyltransferase
Cluster -1193	CCDC90B	Coiled-coil domain-containing protein 90B, mitochondrial
Cluster -1193	CTHRC1	Collagen triple helix repeat-containing protein 1
Cluster -1193	MRPS31	28S ribosomal protein S31, mitochondrial
Cluster -1193	SSR4	Translocon-associated protein subunit delta
Cluster -1193	GPR107	Protein GPR107
Cluster -1193	STT3A	Dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit STT3A
Cluster -1193	ABCF3	ATP-binding cassette sub-family F member 3
Cluster -1193	UFSP2	Ufm1-specific protease 2
Cluster -1193	SIGMAR1	Sigma non-opioid intracellular receptor 1
Cluster -1193	SLC25A1	Tricarboxylate transport protein, mitochondrial
Cluster -1193	ETFA	Electron transfer flavoprotein subunit alpha, mitochondrial
Cluster -1193	GSTA2;GSTA1	Glutathione S-transferase A2;Glutathione S-transferase A1;Glutathione S-transferase A1, N-terminally processed
Cluster -1193	NPM3	Nucleoplasmin-3
Cluster -1193	NAT1	Arylamine N-acetyltransferase 1
Cluster -1193	NDUFS3	NADH dehydrogenase [ubiquinone] iron-sulfur protein 3, mitochondrial
Cluster -1193	NDUFA5	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 5

Cluster -1193	MTHFD2	Bifunctional methylenetetrahydrofolate dehydrogenase/cyclohydrolase, mitochondrial;NAD-dependent methylenetetrahydrofolate dehydrogenase;Methenyltetrahydrofolate cyclohydrolase
Cluster -1193	ANP32E	Acidic leucine-rich nuclear phosphoprotein 32 family member E
Cluster -1193	AHCYL1	Putative adenosylhomocysteinase 2
Cluster -1193	RABGEF1	Rab5 GDP/GTP exchange factor
Cluster -1193	FKBP14	Peptidyl-prolyl cis-trans isomerase FKBP14;Peptidyl-prolyl cis-trans isomerase
Cluster -1193	SH3GL1;SH3GL2	Endophilin-A2;Endophilin-A1
Cluster -1193	DDX19A;DDX19B	ATP-dependent RNA helicase DDX19A;ATP-dependent RNA helicase DDX19B
Cluster -1193	HEATR5A	HEAT repeat-containing protein 5A
Cluster -1193	DNAH9	Dynein heavy chain 9, axonemal
Cluster -1193	FXR1	Fragile X mental retardation syndrome-related protein 1
Cluster -1193	HBS1L	HBS1-like protein
Cluster -1193	RBCK1	RanBP-type and C3HC4-type zinc finger-containing protein 1
Cluster -1193	TIMP3	Metalloproteinase inhibitor 3
Cluster -1193	CNPY3	Protein canopy homolog 3
Cluster -1193	MXRA5	Matrix-remodeling-associated protein 5
Cluster -1193	ARL8A;ARL8B	ADP-ribosylation factor-like protein 8A;ADP-ribosylation factor-like protein 8B
Cluster -1193	DNM2	Dynamamin-2
Cluster -1193	PRELP	Prolargin
Cluster -1193	TOMM40	Mitochondrial import receptor subunit TOM40 homolog
Cluster -1193	DROSHA	Ribonuclease 3
Cluster -1193	SEC61G	Protein transport protein Sec61 subunit gamma
Cluster -1193	SLC25A3	Phosphate carrier protein, mitochondrial
Cluster -1193	AIFM1	Apoptosis-inducing factor 1, mitochondrial
Cluster -1193	CKAP4	Cytoskeleton-associated protein 4
Cluster -1193	C1QBP	Complement component 1 Q subcomponent-binding protein, mitochondrial
Cluster -1193	HSPA9	Stress-70 protein, mitochondrial
Cluster -1193	HSPD1	60 kDa heat shock protein, mitochondrial
Cluster -1193	TCEA1;TCEA2	Transcription elongation factor A protein 1;Transcription elongation factor A protein 2
Cluster -1193	SSR1	Translocon-associated protein subunit alpha
Cluster -1193	COLGALT1	Procollagen galactosyltransferase 1
Cluster -1193	GMPS	GMP synthase [glutamine-hydrolyzing]
Cluster -1193	OSBPL8	Oxysterol-binding protein-related protein 8;Oxysterol-binding protein

Cluster -1193	DAG1	Dystroglycan;Alpha-dystroglycan;Beta-dystroglycan
Cluster -1193	PPP6R2	Serine/threonine-protein phosphatase 6 regulatory subunit 2
Cluster -1193	VDAC1	Voltage-dependent anion-selective channel protein 1
Cluster -1193	AAK1	AP2-associated protein kinase 1
Cluster -1193	NAV1	Neuron navigator 1
Cluster -1193	NDUFV1	NADH dehydrogenase [ubiquinone] flavoprotein 1, mitochondrial
Cluster -1193	ZMPSTE24	CAAX prenyl protease 1 homolog
Cluster -1193	MRPS16	28S ribosomal protein S16, mitochondrial
Cluster -1193	DNAH1	Dynein heavy chain 1, axonemal
Cluster -1193	AIFM2	Apoptosis-inducing factor 2
Cluster -1193	C6orf120	UPF0669 protein C6orf120
Cluster -1193	ACSL4	Long-chain-fatty-acid--CoA ligase 4
Cluster -1193	EMC8	ER membrane protein complex subunit 8
Cluster -1193	HSD17B4	Peroxisomal multifunctional enzyme type 2;(3R)-hydroxyacyl-CoA dehydrogenase;Enoyl-CoA hydratase 2
Cluster -1193	NRP1	Neuropilin-1
Cluster -1193	PTGES2	Prostaglandin E synthase 2;Prostaglandin E synthase 2 truncated form
Cluster -1193	TMED10	Transmembrane emp24 domain-containing protein 10
Cluster -1193	FH	Fumarate hydratase, mitochondrial
Cluster -1193	FXN	Frataxin, mitochondrial;Frataxin intermediate form;Frataxin(56-210);Frataxin(78-210);Frataxin mature form
Cluster -1193	CLPX	ATP-dependent Clp protease ATP-binding subunit clpX-like, mitochondrial
Cluster -1193	SPON1	Spondin-1
Cluster -1193	GRPEL1	GrpE protein homolog 1, mitochondrial
Cluster -1193	FCRL2	Fc receptor-like protein 2
Cluster -1193	TBRG4	Protein TBRG4
Cluster -1193	CCDC80	Coiled-coil domain-containing protein 80
Cluster -1193	TGFBI	Transforming growth factor-beta-induced protein ig-h3
Cluster -1193	DKK1;DKK2	Dickkopf-related protein 1;Dickkopf-related protein 2
Cluster -1193	VCAN	Versican core protein
Cluster -1193	ACADM	Medium-chain specific acyl-CoA dehydrogenase, mitochondrial
Cluster -1193	IGFBP2	Insulin-like growth factor-binding protein 2
Cluster -1193	BSG	Basigin
Cluster -1193	DNAH8	Dynein heavy chain 8, axonemal
Cluster -1193	ASPH	Aspartyl/asparaginyl beta-hydroxylase
Cluster -1193	TECR	Very-long-chain enoyl-CoA reductase
Cluster -1193	TMX4	Thioredoxin-related transmembrane protein 4
Cluster -1193	DNAJA3	DnaJ homolog subfamily A member 3, mitochondrial

Cluster -1193	NUP205	Nuclear pore complex protein Nup205
Cluster -1193	KIAA0196	WASH complex subunit strumpellin
Cluster -1193	HNRNPUL1	Heterogeneous nuclear ribonucleoprotein U-like protein 1
Cluster -1193	NUP155	Nuclear pore complex protein Nup155
Cluster -1193	GOT2	Aspartate aminotransferase, mitochondrial
Cluster -1193	BCAP31	B-cell receptor-associated protein 31
Cluster -1193	SUSD2	Sushi domain-containing protein 2
Cluster -1193	PDS5B	Sister chromatid cohesion protein PDS5 homolog B
Cluster -1193	MON2	Protein MON2 homolog
Cluster -1193	ODR4	Protein odr-4 homolog
Cluster -1193	UGGT2	UDP-glucose:glycoprotein glucosyltransferase 2
Cluster -1193	UQCRFS1;UQC RFS1P1	Cytochrome b-c1 complex subunit Rieske, mitochondrial;Cytochrome b-c1 complex subunit 11;Putative cytochrome b-c1 complex subunit Rieske-like protein 1
Cluster -1193	FECH	Ferrochelatase, mitochondrial
Cluster -1193	LPAR1	Lysophosphatidic acid receptor 1
Cluster -1193	SPCS2	Signal peptidase complex subunit 2
Cluster -1193	PRIM2	DNA primase large subunit
Cluster -1193	SLC30A1	Zinc transporter 1
Cluster -1193	SAR1A	GTP-binding protein SAR1a
Cluster -1193	NDUFA8	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 8
Cluster -1193	ASH2L	Set1/Ash2 histone methyltransferase complex subunit ASH2
Cluster -1193	SAR1B;SAR1A	GTP-binding protein SAR1b
Cluster -1193	POLDIP2	Polymerase delta-interacting protein 2
Cluster -1193	DDX50	ATP-dependent RNA helicase DDX50
Cluster -1193	ARHGEF2	Rho guanine nucleotide exchange factor 2
Cluster -1193	YARS2	Tyrosine--tRNA ligase, mitochondrial;Tyrosine--tRNA ligase
Cluster -1193	HSDL2	Hydroxysteroid dehydrogenase-like protein 2
Cluster -1193	ATP6AP1	V-type proton ATPase subunit S1
Cluster -1193	CNIH4	Protein cornichon homolog 4
Cluster -1193	SRGAP2;SRGAP 2C;SRGAP2B	SLIT-ROBO Rho GTPase-activating protein 2;SLIT-ROBO Rho GTPase-activating protein 2C;SLIT-ROBO Rho GTPase-activating protein 2B
Cluster -1193	SUCLA2	Succinyl-CoA ligase [ADP-forming] subunit beta, mitochondrial
Cluster -1193	FTH1	Ferritin heavy chain;Ferritin heavy chain, N-terminally processed;Ferritin
Cluster -1193	TMEM205	Transmembrane protein 205
Cluster -1193	HLA-C	HLA class I histocompatibility antigen, Cw-7 alpha chain
Cluster -1193	STON2	Stonin-2
Cluster -1193	ATP5J	ATP synthase-coupling factor 6, mitochondrial
Cluster -1193	FAM180A	Protein FAM180A

Cluster -1193	LSS	Lanosterol synthase
Cluster -1193	DBT	Lipoamide acyltransferase component of branched-chain alpha-keto acid dehydrogenase complex, mitochondrial
Cluster -1193	HCFC1	Host cell factor 1;HCF N-terminal chain 1;HCF N-terminal chain 2;HCF N-terminal chain 3;HCF N-terminal chain 4;HCF N-terminal chain 5;HCF N-terminal chain 6;HCF C-terminal chain 1;HCF C-terminal chain 2;HCF C-terminal chain 3;HCF C-terminal chain 4;HCF C-terminal chain 5;HCF C-terminal chain 6
Cluster -1193	ADAM10	Disintegrin and metalloproteinase domain-containing protein 10
Cluster -1193	COL5A2	Collagen alpha-2(V) chain
Cluster -1193	PLOD1	Procollagen-lysine,2-oxoglutarate 5-dioxygenase 1
Cluster -1193	LEMD2	LEM domain-containing protein 2
Cluster -1193	PRDX4	Peroxiredoxin-4
Cluster -1193	CALR	Calreticulin
Cluster -1193	PSMD11	26S proteasome non-ATPase regulatory subunit 11
Cluster -1193	RPL21	60S ribosomal protein L21
Cluster -1193	ILK	Integrin-linked protein kinase
Cluster -1193	RPL9	60S ribosomal protein L9
Cluster -1193	NOP58	Nucleolar protein 58
Cluster -1193	KIAA0020	Pumilio domain-containing protein KIAA0020
Cluster -1193	DHX9	ATP-dependent RNA helicase A
Cluster -1193	MDH2	Malate dehydrogenase, mitochondrial;Malate dehydrogenase
Cluster -1193	FBN1	Fibrillin-1
Cluster -1193	NDUFS2	NADH dehydrogenase [ubiquinone] iron-sulfur protein 2, mitochondrial
Cluster -1193	XRCC5	X-ray repair cross-complementing protein 5
Cluster -1193	FKBP7	Peptidyl-prolyl cis-trans isomerase FKBP7
Cluster -1193	RCN1	Reticulocalbin-1
Cluster -1193	LRP1	Prolow-density lipoprotein receptor-related protein 1;Low-density lipoprotein receptor-related protein 1 85 kDa subunit;Low-density lipoprotein receptor-related protein 1 515 kDa subunit;Low-density lipoprotein receptor-related protein 1 intracellular domain
Cluster -1193	RPS15A	40S ribosomal protein S15a
Cluster -1193	CDH11	Cadherin-11
Cluster -1193	LMAN1	Protein ERGIC-53
Cluster -1193	OAT	Ornithine aminotransferase, mitochondrial;Ornithine aminotransferase, hepatic form;Ornithine aminotransferase, renal form
Cluster -1193	WDR18	WD repeat-containing protein 18
Cluster -1193	UBTF	Nucleolar transcription factor 1
Cluster -1193	FNDC3A	Fibronectin type-III domain-containing protein 3A

Cluster -1193	NUP133	Nuclear pore complex protein Nup133
Cluster -1193	SHMT2	Serine hydroxymethyltransferase, mitochondrial;Serine hydroxymethyltransferase
Cluster -1193	DHX15	Pre-mRNA-splicing factor ATP-dependent RNA helicase DHX15
Cluster -1193	MRPL2	39S ribosomal protein L2, mitochondrial
Cluster -1193	HNRNPH1	Heterogeneous nuclear ribonucleoprotein H;Heterogeneous nuclear ribonucleoprotein H, N-terminally processed
Cluster -1193	EMILIN1	EMILIN-1
Cluster -1193	RALY	RNA-binding protein Raly
Cluster -1193	TRIM28	Transcription intermediary factor 1-beta
Cluster -1193	RPL3	60S ribosomal protein L3
Cluster -1193	FBL	rRNA 2-O-methyltransferase fibrillar
Cluster -1193	SF3B1	Splicing factor 3B subunit 1
Cluster -1193	RPL17;RPL17-C18orf32	60S ribosomal protein L17
Cluster -1193	RPL10	N/A
Cluster -1193	GLUD1;GLUD2	Glutamate dehydrogenase 1, mitochondrial;Glutamate dehydrogenase 2, mitochondrial
Cluster -1193	N/A	N/A
Cluster -1193	PLOD3	Procollagen-lysine,2-oxoglutarate 5-dioxygenase 3
Cluster -1193	SAMHD1	Deoxynucleoside triphosphate triphosphohydrolase SAMHD1
Cluster -1193	PRDX3	Thioredoxin-dependent peroxide reductase, mitochondrial
Cluster -1193	ATP1B3	Sodium/potassium-transporting ATPase subunit beta-3
Cluster -1193	GALK1	Galactokinase
Cluster -1193	DDOST	Dolichyl-diphosphooligosaccharide--protein glycosyltransferase 48 kDa subunit
Cluster -1193	MCM4	DNA replication licensing factor MCM4
Cluster -1193	ERGIC2	Endoplasmic reticulum-Golgi intermediate compartment protein 2
Cluster -1193	LEPRE1	Prolyl 3-hydroxylase 1
Cluster -1193	ATAD3A	ATPase family AAA domain-containing protein 3A
Cluster -1193	TM9SF4	Transmembrane 9 superfamily member 4
Cluster -1193	PCCB	Propionyl-CoA carboxylase beta chain, mitochondrial
Cluster -1193	SDF2	Stromal cell-derived factor 2
Cluster -1193	SCP2	Non-specific lipid-transfer protein
Cluster -1193	CEBPB	CCAAT/enhancer-binding protein beta
Cluster -1193	MYO1B	Unconventional myosin-Ib
Cluster -1193	PDCD6	Programmed cell death protein 6
Cluster -1193	GALNT5	Polypeptide N-acetylgalactosaminyltransferase 5
Cluster -1193	COL12A1	N/A
Cluster -1193	GOLIM4	Golgi integral membrane protein 4



Cluster -1193	RPS6KA3	Ribosomal protein S6 kinase alpha-3
Cluster -1193	SLC25A11	Mitochondrial 2-oxoglutarate/malate carrier protein
Cluster -1193	C9orf89	Bcl10-interacting CARD protein
Cluster -1193	SLIRP	SRA stem-loop-interacting RNA-binding protein, mitochondrial
Cluster -1193	SUCLG1	Succinyl-CoA ligase [ADP/GDP-forming] subunit alpha, mitochondrial
Cluster -1193	PPA2	Inorganic pyrophosphatase 2, mitochondrial
Cluster -1193	NUCB2;Nucb2	Nucleobindin-2;Nesfatin-1
Cluster -1193	HSPA5	78 kDa glucose-regulated protein
Cluster -1193	EIF2AK2	Interferon-induced, double-stranded RNA-activated protein kinase
Cluster -1193	ERLEC1	Endoplasmic reticulum lectin 1
Cluster -1193	MICAL1	Protein-methionine sulfoxide oxidase MICAL1
Cluster -1193	ELMOD2	ELMO domain-containing protein 2
Cluster -1193	PDCD11	Protein RRP5 homolog
Cluster -1193	SUMF2	Sulfatase-modifying factor 2
Cluster -1193	CHP1	Calcineurin B homologous protein 1
Cluster -1193	CPSF7	Cleavage and polyadenylation specificity factor subunit 7
Cluster -1193	CCAR2	Cell cycle and apoptosis regulator protein 2
Cluster -1193	RRAD	GTP-binding protein RAD
Cluster -1193	NOP56	Nucleolar protein 56
Cluster -1193	ECHS1	Enoyl-CoA hydratase, mitochondrial
Cluster -1193	SEC23IP	SEC23-interacting protein
Cluster -1193	TM9SF3	Transmembrane 9 superfamily member 3
Cluster -1193	NUP107	Nuclear pore complex protein Nup107
Cluster -1193	H6PD	GDH/6PGL endoplasmic bifunctional protein;Glucose 1-dehydrogenase;6-phosphogluconolactonase
Cluster -1193	DKC1	H/ACA ribonucleoprotein complex subunit 4
Cluster -1193	BUB3	Mitotic checkpoint protein BUB3
Cluster -1193	TOP2B	DNA topoisomerase 2-beta;DNA topoisomerase 2
Cluster -1193	CLN6	Ceroid-lipofuscinosis neuronal protein 6
Cluster -1193	TBCE	Tubulin-specific chaperone E
Cluster -1193	SRPRB	Signal recognition particle receptor subunit beta
Cluster -1193	CCPG1	Cell cycle progression protein 1
Cluster -1193	ACOX1	Peroxisomal acyl-coenzyme A oxidase 1
Cluster -1193	TPBG	Trophoblast glycoprotein
Cluster -1193	NUCB1	Nucleobindin-1
Cluster -1193	ATP5C1	ATP synthase subunit gamma, mitochondrial
Cluster -1193	CALB2	Calretinin
Cluster -1193	P4HB	Protein disulfide-isomerase
Cluster -1193	FKBP9	Peptidyl-prolyl cis-trans isomerase FKBP9

Cluster -1193	PREB	Prolactin regulatory element-binding protein
Cluster -1193	CYP20A1	Cytochrome P450 20A1
Cluster -1193	SLC12A4	Solute carrier family 12 member 4
Cluster -1193	HEG1	Protein HEG homolog 1
Cluster -1193	FTSJ3	pre-rRNA processing protein FTSJ3
Cluster -1193	LAMB2	Laminin subunit beta-2
Cluster -1193	SRPR	Signal recognition particle receptor subunit alpha
Cluster -1193	RSL1D1	Ribosomal L1 domain-containing protein 1
Cluster -1193	LETM1	LETM1 and EF-hand domain-containing protein 1, mitochondrial
Cluster -1193	DNAJB11	DnaJ homolog subfamily B member 11
Cluster -1193	ATP13A1	Manganese-transporting ATPase 13A1
Cluster -1193	MIA3	Melanoma inhibitory activity protein 3
Cluster -1193	HYOU1	Hypoxia up-regulated protein 1
Cluster -1193	STAT2	Signal transducer and activator of transcription 2
Cluster -1193	GLB1	Beta-galactosidase
Cluster -1193	ACSL3	Long-chain-fatty-acid--CoA ligase 3
Cluster -1193	NSF	Vesicle-fusing ATPase
Cluster -1193	SCARB2	Lysosome membrane protein 2
Cluster -1193	GFM2	Ribosome-releasing factor 2, mitochondrial
Cluster -1193	HSD17B12	Very-long-chain 3-oxoacyl-CoA reductase
Cluster -1193	NNT	NAD(P) transhydrogenase, mitochondrial
Cluster -1193	ATP5F1	ATP synthase F(0) complex subunit B1, mitochondrial
Cluster -1193	SELM	Selenoprotein M
Cluster -1193	ARL1	ADP-ribosylation factor-like protein 1
Cluster -1193	SEL1L	Protein sel-1 homolog 1
Cluster -1193	EXOC4	Exocyst complex component 4
Cluster -1193	EMC1	ER membrane protein complex subunit 1
Cluster -1193	TCIRG1	V-type proton ATPase 116 kDa subunit a isoform 3;V-type proton ATPase subunit a
Cluster -1193	PON2	Serum paraoxonase/arylesterase 2
Cluster -1193	MYO1D	Unconventional myosin-Id
Cluster -1193	RNF170	E3 ubiquitin-protein ligase RNF170
Cluster -1193	MRPL50	39S ribosomal protein L50, mitochondrial
Cluster -1193	ETFDH	Electron transfer flavoprotein-ubiquinone oxidoreductase, mitochondrial
Cluster -1193	LACTB	Serine beta-lactamase-like protein LACTB, mitochondrial
Cluster -1193	ACADVL	Very long-chain specific acyl-CoA dehydrogenase, mitochondrial
Cluster -1193	EPHX1	Epoxide hydrolase 1
Cluster -1193	AGPS	Alkyldihydroxyacetonephosphate synthase, peroxisomal
Cluster -1193	XPO7	Exportin-7

Cluster -1193	DHRS4	Dehydrogenase/reductase SDR family member 4
Cluster -1193	CISD1	CDGSH iron-sulfur domain-containing protein 1
Cluster -1193	NUP188	Nucleoporin NUP188 homolog
Cluster -1193	SLC25A6	ADP/ATP translocase 3;ADP/ATP translocase 3, N-terminally processed
Cluster -1193	APOL2	Apolipoprotein L2
Cluster -1193	SLC39A14	Zinc transporter ZIP14
Cluster -1193	MECR	Trans-2-enoyl-CoA reductase, mitochondrial
Cluster -1193	FDXR	NADPH:adrenodoxin oxidoreductase, mitochondrial
Cluster -1193	SFXN3	Sideroflexin-3
Cluster -1193	B2M	Beta-2-microglobulin;Beta-2-microglobulin form pI 5.3
Cluster -1193	SEC63	Translocation protein SEC63 homolog
Cluster -1193	UQCR10	Cytochrome b-c1 complex subunit 9
Cluster -1193	TMEM165	Transmembrane protein 165
Cluster -1193	OXCT1	Succinyl-CoA:3-ketoacid coenzyme A transferase 1, mitochondrial
Cluster -1193	ATP5B	ATP synthase subunit beta, mitochondrial;ATP synthase subunit beta
Cluster -1193	MT-ND5	NADH-ubiquinone oxidoreductase chain 5
Cluster -1193	C21orf33	N/A
Cluster -1193	SFXN1	Sideroflexin-1
Cluster -1193	APMAP	Adipocyte plasma membrane-associated protein
Cluster -1193	SPNS1	Protein spinster homolog 1
Cluster -1193	TRAM1	Translocating chain-associated membrane protein 1
Cluster -1193	DLD	Dihydrolipoyl dehydrogenase, mitochondrial;Dihydrolipoyl dehydrogenase
Cluster -1193	ATP6V0D1	V-type proton ATPase subunit d 1
Cluster -1193	NDUFAF4	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex assembly factor 4
Cluster -1193	SLC25A24	Calcium-binding mitochondrial carrier protein SCaMC-1
Cluster -1193	NFU1	NFU1 iron-sulfur cluster scaffold homolog, mitochondrial
Cluster -1193	ATP2A2	Sarcoplasmic/endoplasmic reticulum calcium ATPase 2
Cluster -1193	HSD17B10	3-hydroxyacyl-CoA dehydrogenase type-2
Cluster -1193	TMX3	Protein disulfide-isomerase TMX3
Cluster -1193	STT3B	Dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit STT3B
Cluster -1193	MGAT1	Alpha-1,3-mannosyl-glycoprotein 2-beta-N-acetylglucosaminyltransferase
Cluster -1193	ATP5A1	ATP synthase subunit alpha, mitochondrial
Cluster -1193	GNPAT	Dihydroxyacetone phosphate acyltransferase
Cluster -1193	SEC11A	Signal peptidase complex catalytic subunit SEC11A;Signal peptidase complex catalytic subunit SEC11
Cluster -1193	GPSM1	G-protein-signaling modulator 1

Cluster -1193	HADHA	Trifunctional enzyme subunit alpha, mitochondrial;Long-chain enoyl-CoA hydratase;Long chain 3-hydroxyacyl-CoA dehydrogenase
Cluster -1193	NXN	Nucleoredoxin
Cluster -1193	ANXA11	Annexin A11
Cluster -1193	CD276	CD276 antigen
Cluster -1193	M6PR	Cation-dependent mannose-6-phosphate receptor
Cluster -1193	DECR1	2,4-dienoyl-CoA reductase, mitochondrial
Cluster -1193	MRPS9	28S ribosomal protein S9, mitochondrial
Cluster -1193	PHB	Prohibitin
Cluster -1193	UQCRC1	Cytochrome b-c1 complex subunit 1, mitochondrial
Cluster -1193	UQCRC2	Cytochrome b-c1 complex subunit 2, mitochondrial
Cluster -1193	LONP1	Lon protease homolog, mitochondrial
Cluster -1193	SDHA	Succinate dehydrogenase [ubiquinone] flavoprotein subunit, mitochondrial
Cluster -1193	ECI1;DCI	Enoyl-CoA delta isomerase 1, mitochondrial
Cluster -1193	DICER1	Endoribonuclease Dicer
Cluster -1193	ERP44	Endoplasmic reticulum resident protein 44
Cluster -1193	ADPGK	ADP-dependent glucokinase
Cluster -1193	TMED4	Transmembrane emp24 domain-containing protein 4
Cluster -1193	MOGS	Mannosyl-oligosaccharide glucosidase
Cluster -1193	RPN2	Dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit 2
Cluster -1193	RPN1	Dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit 1
Cluster -1193	MMP2	72 kDa type IV collagenase;PEX
Cluster -1193	TAPBP	Tapasin
Cluster -1193	DDX11;DDX11L8;DDX12P	Probable ATP-dependent RNA helicase DDX11;Putative ATP-dependent RNA helicase DDX11-like protein 8;Putative ATP-dependent RNA helicase DDX12
Cluster -1193	GSTK1	Glutathione S-transferase kappa 1
Cluster -1193	TMED9	Transmembrane emp24 domain-containing protein 9
Cluster -1193	CYB5B	Cytochrome b5 type B
Cluster -1193	LMAN2	Vesicular integral-membrane protein VIP36
Cluster -1193	IKBIP	Inhibitor of nuclear factor kappa-B kinase-interacting protein
Cluster -1193	PRPF8	Pre-mRNA-processing-splicing factor 8
Cluster -1193	OS9	Protein OS-9
Cluster -1193	CPOX	Oxygen-dependent coproporphyrinogen-III oxidase, mitochondrial
Cluster -1193	COX4I1	Cytochrome c oxidase subunit 4 isoform 1, mitochondrial
Cluster -1193	CS	Citrate synthase, mitochondrial;Citrate synthase
Cluster -1193	TARDBP	TAR DNA-binding protein 43
Cluster -1193	TMED7;TMED7-	Transmembrane emp24 domain-containing protein 7

	TICAM2	
Cluster -1193	SUN2	SUN domain-containing protein 2
Cluster -1193	PIGS	GPI transamidase component PIG-S
Cluster -1193	PITRM1	Presequence protease, mitochondrial
Cluster -1193	CANX	Calnexin
Cluster -1193	SPTLC1	Serine palmitoyltransferase 1
Cluster -1193	NOMO2;NOMO3	Nodal modulator 2;Nodal modulator 3
Cluster -1193	OGDH	2-oxoglutarate dehydrogenase, mitochondrial
Cluster -1193	CISD2	CDGSH iron-sulfur domain-containing protein 2
Cluster -1193	MTX2	Metaxin-2
Cluster -1193	EIF4G2	Eukaryotic translation initiation factor 4 gamma 2
Cluster -1193	UGGT1	UDP-glucose:glycoprotein glucosyltransferase 1
Cluster -1193	EXOC2	Exocyst complex component 2
Cluster -1193	NCLN	Nicalin
Cluster -1193	GANAB	Neutral alpha-glucosidase AB
Cluster -1193	CALU	Calumenin
Cluster -1193	TOR1B	Torsin-1B
Cluster -1193	PIGT	GPI transamidase component PIG-T
Cluster -1193	MSRB3	Methionine-R-sulfoxide reductase B3
Cluster -1193	NDUFA13	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 13
Cluster -1193	IARS2	Isoleucine--tRNA ligase, mitochondrial
Cluster -1193	TMEM43	Transmembrane protein 43
Cluster -1193	IMMT	MICOS complex subunit MIC60
Cluster -1193	NDUFA9	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 9, mitochondrial
Cluster -1193	TMED1	Transmembrane emp24 domain-containing protein 1
Cluster -1193	ALDH18A1	Delta-1-pyrroline-5-carboxylate synthase;Glutamate 5-kinase;Gamma-glutamyl phosphate reductase
Cluster -1193	GLS	Glutaminase kidney isoform, mitochondrial
Cluster -1193	NUP85	Nuclear pore complex protein Nup85
Cluster -1193	ABCD3	ATP-binding cassette sub-family D member 3
Cluster -1193	PHB2	Prohibitin-2
Cluster -1193	ALG2	Alpha-1,3/1,6-mannosyltransferase ALG2
Cluster -1193	MMGT1	Membrane magnesium transporter 1
Cluster -1193	AGTRAP	Type-1 angiotensin II receptor-associated protein
Cluster -1193	COPB1	Coatomer subunit beta
Cluster -1193	CYC1	Cytochrome c1, heme protein, mitochondrial
Cluster -1193	P4HA1	Prolyl 4-hydroxylase subunit alpha-1
Cluster -1193	CPQ	Carboxypeptidase Q
Cluster -1193	CYB5R3	NADH-cytochrome b5 reductase 3;NADH-cytochrome b5 reductase 3 membrane-bound form;NADH-cytochrome b5

		reductase 3 soluble form
Cluster -1193	CYB5R1	NADH-cytochrome b5 reductase 1
Cluster -1193	RAB9A	Ras-related protein Rab-9A
Cluster -1193	PXDN	Peroxidasin homolog
Cluster -1193	GOLGA5	Golgin subfamily A member 5
Cluster -1193	OXR1	Oxidation resistance protein 1
Cluster -1193	SOAT1	Sterol O-acyltransferase 1
Cluster -1193	RAB2A	Ras-related protein Rab-2A
Cluster -1193	PSMC5	26S protease regulatory subunit 8
Cluster -1193	MARS	Methionine--tRNA ligase, cytoplasmic
Cluster -1193	AP2A2	AP-2 complex subunit alpha-2
Cluster -1193	SNX6	Sorting nexin-6;Sorting nexin-6, N-terminally processed
Cluster -1193	AP2S1	AP-2 complex subunit sigma
Cluster -1193	AP3M1	AP-3 complex subunit mu-1
Cluster -1193	RBPJ	Recombining binding protein suppressor of hairless
Cluster -1193	CASC4	Protein CASC4
Cluster -1193	ITGA11	Integrin alpha-11
Cluster -1193	SNX18	Sorting nexin-18
Cluster -1193	LPCAT2	Lysophosphatidylcholine acyltransferase 2
Cluster -1193	ANGPT1	Angiopoietin-1
Cluster -1193	RAB10	Ras-related protein Rab-10
Cluster -1193	BZW2	Basic leucine zipper and W2 domain-containing protein 2
Cluster -1193	TGFB1I1	Transforming growth factor beta-1-induced transcript 1 protein
Cluster -1193	NIPSNAP3A	Protein NipSnap homolog 3A
Cluster -1193	SLC39A7	Zinc transporter SLC39A7
Cluster -1193	KDELC1	KDEL motif-containing protein 1
Cluster -1193	ITGB5	Integrin beta-5;Integrin beta
Cluster -1193	N/A	N/A
Cluster -1193	PTPN1	Tyrosine-protein phosphatase non-receptor type 1;Tyrosine-protein phosphatase non-receptor type
Cluster -1193	NCKAP1	Nck-associated protein 1
Cluster -1193	VPS35	Vacuolar protein sorting-associated protein 35
Cluster -1193	ATL3	Atlastin-3
Cluster -1193	PFKM	ATP-dependent 6-phosphofructokinase, muscle type
Cluster -1193	ITGB1	Integrin beta-1
Cluster -1193	FAM162A	Protein FAM162A
Cluster -1193	GNAI2	Guanine nucleotide-binding protein G(i) subunit alpha-2
Cluster -1193	MYOF	Myoferlin
Cluster -1193	HIBCH	3-hydroxyisobutyryl-CoA hydrolase, mitochondrial
Cluster -1193	SPCS3	Signal peptidase complex subunit 3

Cluster -1193	MANF	Mesencephalic astrocyte-derived neurotrophic factor
Cluster -1193	HSP90B1	Endoplasmic
Cluster -1193	GLS	Glutaminase kidney isoform, mitochondrial
Cluster -1193	ACOX3	Peroxisomal acyl-coenzyme A oxidase 3
Cluster -1193	ATP5J2;ATP5J2-PTCD1	ATP synthase subunit f, mitochondrial
Cluster -1193	PTRH2	Peptidyl-tRNA hydrolase 2, mitochondrial
Cluster -1193	ATP6V1D	V-type proton ATPase subunit D
Cluster -1193	RRAGC	Ras-related GTP-binding protein C
Cluster -1193	DNAJC13	DnaJ homolog subfamily C member 13
Cluster -1193	SACM1L	Phosphatidylinositide phosphatase SAC1
Cluster -1193	FLOT2	Flotillin-2
Cluster -1193	MTDH	Protein LYRIC
Cluster -1193	FLOT1	Flotillin-1
Cluster -1193	MPDU1	Mannose-P-dolichol utilization defect 1 protein
Cluster -1193	CLPTM1L	N/A
Cluster -1193	CNPY4	Protein canopy homolog 4
Cluster -1193	HM13	Minor histocompatibility antigen H13
Cluster -1193	ESYT1	Extended synaptotagmin-1
Cluster -1193	ERO1L	ERO1-like protein alpha
Cluster -1193	PRCP	Lysosomal Pro-X carboxypeptidase
Cluster -1193	CD97	CD97 antigen;CD97 antigen subunit alpha;CD97 antigen subunit beta
Cluster -1193	MTCH2	Mitochondrial carrier homolog 2
Cluster -1193	ANO10	Anoctamin-10
Cluster -1193	MBOAT2	Lysophospholipid acyltransferase 2
Cluster -1193	IDH2	Isocitrate dehydrogenase [NADP], mitochondrial
Cluster -1193	NCEH1	Neutral cholesterol ester hydrolase 1
Cluster -1193	ALDH3A2;ALDH3A1;ALDH3B2;ALDH3B1	Fatty aldehyde dehydrogenase;Aldehyde dehydrogenase, dimeric NADP-preferring;Aldehyde dehydrogenase family 3 member B1;Aldehyde dehydrogenase family 3 member B2
Cluster -1193	PCYOX1	Prenylcysteine oxidase 1
Cluster -1193	PRKRA	Interferon-inducible double-stranded RNA-dependent protein kinase activator A
Cluster -1193	DRG2	Developmentally-regulated GTP-binding protein 2
Cluster -1193	TNPO2	Transportin-2
Cluster -1193	ERGIC1	Endoplasmic reticulum-Golgi intermediate compartment protein 1
Cluster -1193	RRAS2	Ras-related protein R-Ras2
Cluster -1193	BCAP29	B-cell receptor-associated protein 29
Cluster -1193	DOCK5	Dedicator of cytokinesis protein 5
Cluster -1193	SESN2	Sestrin-2
Cluster -1193	CCDC50	Coiled-coil domain-containing protein 50

Cluster -1193	LZIC	Protein LZIC
Cluster -1193	APC2	Adenomatous polyposis coli protein 2
Cluster -1193	XXYLT1	Xyloside xylosyltransferase 1
Cluster -1193	PPID	Peptidyl-prolyl cis-trans isomerase D
Cluster -1193	INTS4	Integrator complex subunit 4
Cluster -1193	TOR1A	Torsin-1A
Cluster -1193	DNASE2	Deoxyribonuclease-2-alpha
Cluster -1193	FAM149A	Protein FAM149A
Cluster -1193	GALC	Galactocerebrosidase
Cluster -1193	ITM2B	Integral membrane protein 2B;BRI2, membrane form;BRI2 intracellular domain;BRI2C, soluble form;Bri23 peptide
Cluster -1193	ARMCX3	Armadillo repeat-containing X-linked protein 3
Cluster -1193	IMMT	MICOS complex subunit MIC60
Cluster -1193	TRIP13	Pachytene checkpoint protein 2 homolog
Cluster -1193	IFIT5	Interferon-induced protein with tetratricopeptide repeats 5
Cluster -1193	CASP7	Caspase-7;Caspase-7 subunit p20;Caspase-7 subunit p11
Cluster -1193	TNFRSF11B	Tumor necrosis factor receptor superfamily member 11B
Cluster -1193	SDCBP	Syntenin-1
Cluster -1193	DDX3X	ATP-dependent RNA helicase DDX3X
Cluster -1193	ECE1	Endothelin-converting enzyme 1
Cluster -1193	APP	Amyloid beta A4 protein;N-APP;Soluble APP-alpha;Soluble APP-beta;C99;Beta-amyloid protein 42;Beta-amyloid protein 40;C83;P3(42);P3(40);C80;Gamma-secretase C-terminal fragment 59;Gamma-secretase C-terminal fragment 57;Gamma-secretase C-terminal fragment 50;C31
Cluster -1193	SPG21	Maspardin
Cluster -1193	APIP	Methylthioribulose-1-phosphate dehydratase
Cluster -1193	FAF2	FAS-associated factor 2
Cluster -1193	PRPF38A	Pre-mRNA-splicing factor 38A
Cluster -1193	GNA13	Guanine nucleotide-binding protein subunit alpha-13
Cluster -1193	NUP93	Nuclear pore complex protein Nup93
Cluster -1193	SLC38A2	Sodium-coupled neutral amino acid transporter 2
Cluster -1193	SUN1	SUN domain-containing protein 1
Cluster -1193	PRPF31	U4/U6 small nuclear ribonucleoprotein Prp31
Cluster -1193	SCFD2	Sec1 family domain-containing protein 2
Cluster -1193	PIP5K2	Inositol hexakisphosphate and diphosphoinositol-pentakisphosphate kinase 2
Cluster -1193	CDC16	Cell division cycle protein 16 homolog
Cluster -1193	CAV1	Caveolin-1;Caveolin
Cluster -1193	RBM12	RNA-binding protein 12
Cluster -1193	RNF25	E3 ubiquitin-protein ligase RNF25
Cluster -1193	KLC4	Kinesin light chain 4



Cluster -1193	ATP6V1H	V-type proton ATPase subunit H
Cluster -1193	PBXIP1	Pre-B-cell leukemia transcription factor-interacting protein 1
Cluster -1193	PPP6C	Serine/threonine-protein phosphatase 6 catalytic subunit;Serine/threonine-protein phosphatase 6 catalytic subunit, N-terminally processed
Cluster -1193	IKBIP	Inhibitor of nuclear factor kappa-B kinase-interacting protein
Cluster -1193	FHOD1	FH1/FH2 domain-containing protein 1
Cluster -1193	ZNFX1	NFX1-type zinc finger-containing protein 1
Cluster -1193	CMBL	Carboxymethylenebutenolidase homolog
Cluster -1193	SERPINE1	Plasminogen activator inhibitor 1
Cluster -1193	PLEKHO2	Pleckstrin homology domain-containing family O member 2
Cluster -1193	TFRC	Transferrin receptor protein 1;Transferrin receptor protein 1, serum form
Cluster -1193	NOL6	Nucleolar protein 6
Cluster -1193	NAA35	N-alpha-acetyltransferase 35, NatC auxiliary subunit
Cluster -1193	OPA1	Dynamin-like 120 kDa protein, mitochondrial;Dynamin-like 120 kDa protein, form S1
Cluster -1193	ATP5D	ATP synthase subunit delta, mitochondrial