

PROTEOMICS

Supporting Information for Proteomics

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**Expanding the mouse embryonic stem cell proteome: Combining three
proteomic approaches**

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Detailed Methods

2DLC

For the two dimensional liquid chromatography (2DLC), analysis was carried out on a 2-Dimensional Liquid Chromatography system (ProteomeLab PF 2D, Beckman Coulter, CA, USA) in which intact proteins were initially separated in the first dimension by chromatographic focusing (based on pI) followed by a second dimension using reversed phase (based on hydrophobicity) as previously reported [1]. R1 cells (7×10^9 cells) were lysed in 5M urea, 2M thiourea, 10% glycerol, 2% n-octylglucoside, 5mM TCEP and 1mM protease inhibitors (Sigma), centrifuged at $20000 \times g$ for 60 at room temperature and then the buffer was exchanged using PD-10 gel filtration column. Protein concentration was determined using the BCA assay (ThermoFisherPierce). 2.5 mg of protein solution was injected onto the PF 2D consisting of a single piston pump (HPCF Module) with pH monitoring and UV detection at 280 nm. First dimensions fractions were collected every 8.5 minutes until the pH gradient portion of the run, when fractions were collected at 0.3-pH intervals between pH 8.3 and 4.0, followed by a high salt wash comprising 1M NaCl in 30% n-Propanol. The 30 first dimension fractions were sequentially injected (250ul) into the 2nd dimension reverse-phase system consisting a binary pump system (HPRP Module) with a column heater at 55°C, UV detection at 214 nm, and a fraction collector. Each analysis used a 3.33% B/min linear gradient in which solvent A was 0.1% aqueous TFA and solvent B was 0.08% TFA in acetonitrile at a flow rate of 0.75 ml/min. Second dimension fractions were concentrated to dryness using a vacuum concentrator. 5–10 μ l. 1 M NH_4HCO_3 was added to the residue to neutralize samples to pH 8.0 and samples were digested with sequencing-grade modified trypsin (Promega, WI)(enzyme-to-substrate ratio of 1:50) overnight at 37°C. 10% TFA was then added to stop the digestion.

Subcellular enrichment and 1DE

For one dimensional gel electrophoresis (1DE), R1 cell ($\sim 7 \times 10^9$ cells) were solubilized in lysis buffer consisting of 10mM Tris pH7.5, 0.5mM MgCl, protease inhibitor cocktail (Roche Applied Science)). Cell lysate was centrifuged at 800 x g for 10 min at 4°C twice. The supernatant was collected and pooled. The resulting pellets from both centrifugations were combined, resuspended in lysis buffer, homogenized, and centrifuged as above. The pellet consisting primarily of the nucleus was stored for 1DE. The supernatant was collected and combined with previous supernatant pool and further separated into crude mitochondrial pellet and cytoplasmic fraction by centrifugation at 7000 x g for 15 min at 4°C. The supernatant was further fractionated into soluble cytoplasmic proteins and other cellular membrane proteins by centrifugation at 18000 x g for 2 hours at 4°C. In preparation for 1DE, each subproteome fraction (Nuclear enriched, mitochondrial enriched, cytoplasmic/soluble, membrane enriched) was resuspended in incomplete Laemmli buffer (4%SDS, 10% glycerol, 100mM Tris pH 7.0), sonicated and incubated at 100°C for 10min. Protein concentration for each subproteome was determined using the BCA protein quantification kit (Thermo Scientific Pierce). 300 ug lysate from each fraction were separated on 4–12% NuPAGE Bis-Tris mini gel (Invitrogen) and visualized with colloidal Coomassie Blue G-250 stain (Thermo Scientific Pierce) according to [2]. Gel images are shown in supplemental data (Figure s1). Each gel line was cut into 5 slices and slices from identical gel areas were combined. The in-gel digestion was carried out according to Shevchenko [3] with minor modifications and peptide samples were desalted on a C₁₈ UltraMicroSpin™ column (Nest Group, Southborough, MA) according to the manufacturer's instructions.

Unfractionated (UF) samples

For the unfractionated (UF) samples, R1 cells ($\sim 160 \times 10^6$) were resuspended in cold lysis buffer (4°C) and homogenized. RapiGest (Waters, Milford, MA) was added to a final concentration of 0.5% (v/v) and the sample was incubated 15 min at 60°C.

Subsequently, the sample was diluted with 100 mM ammonium bicarbonate to 0.2% RapiGest, reduced with 10 mM Tris(2-carboxyethyl)phosphine (Sigma) at 25°C for 20 min, then alkylated for 20 min with 10mM iodoacetamide (Sigma) at 25°C in the dark. Proteins were digested with 1 µg of glycerol-free endoproteinase Lys-C (Calbiochem) at 37°C for 4 h followed by 20 µg of sequencing grade trypsin (Promega, Madison, WI) at 37°C for 16 h. The resulting peptide mixture was desalted and concentrated using a C₁₈ UltraMicroSpin™ column.

Data acquisition on the LTQ-Orbitrap

Peptides from the 1DE and UF samples were separated on a C₁₈ RP-HPLC column (75 µm x 10 cm self-packed with 5 µm, 200 Å Magic C18; Michrom BioResources, Auburn, CA) at a flow rate of 300 nl / min where mobile phase A was 0.1% v/v formic acid in water and mobile phase B was 90% acetonitrile, 0.1 % formic acid in water. The linear gradient was 10% B to 65% B in 120 minutes and 60 minutes, respectively, for the UF and 1DE samples. Each MS1 scan followed by collision induced dissociation (CID, acquired in the LTQ part) of the seven most abundant precursor ions with dynamic exclusion for 30 seconds. Only MS1 signals exceeding 10,000 counts triggered the MS2 scans. For MS1, 2×10^5 ions were accumulated in the Orbitrap over a maximum time of 500 ms and scanned at a resolution of 60,000 FWHM (at 400 m/z). MS2 spectra (via collision induced dissociation (CID)) were acquired in normal scan mode in the LTQ, a

target setting of 10^4 ions and accumulation time of 30 ms. The normalized collision energy was set to 35%, and one microscan was acquired for each spectrum.

Data acquisition on the LTQ

Peptides from the 2DLC were separated on a $75\mu\text{m} \times 10\text{cm}$ BioBasic C18 column (New Objective, MA) using a Agilent 1100 nano-LC system (Agilent, CA) connected to an LTQ mass spectrometer (Thermo). The samples were loaded in buffer A consisting of 0.1% formic acid in 4% acetonitrile in water and eluted at a flow rate of 300 nl/min using a linear A/B gradient (5–60% B/ 30 or 60 minutes, depending on sample complexity) where buffer B consisted of 0.1 % formic acid in 90% acetonitrile/water. The mass spectrometer was operated in the data-dependent mode, in which every MS scan (survey 350–2000 Da) was followed by MS/MS scans of the five most abundant ions.

Protein database search parameters

All raw data peak extraction was performed using Sorcerer 2™-SEQUEST® default settings. Database search parameters included the following: full enzyme digest using trypsin (After KR/-) with up to 2 missed cleavages, monoisotopic precursor mass range of 400 to 4500 amu, and oxidation was allowed as a differential modification. For the 1DE and whole cell lysates data, carbamidomethylation was an allowed modification. Peptide mass tolerance was set to 1.2 Da for LTQ data, and was set to 50 ppm for LTQ-Orbitrap data. Fragment mass type set was to monoisotopic, maximum number of modifications set to 4 per peptide. Advanced search options that were enabled included: XCorr score cutoff of 1.5, isotope check using mass shift of 1.003355 amu, keep the top 2000 preliminary results for final scoring, display up to 200 peptide results in the result file, display up to 5 full protein descriptions in the result file, display up to 1 duplicate protein references in the result file.

References

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- [2] Candiano, G., Bruschi, M., Musante, L., Santucci, L., *et al.*, Blue silver: a very sensitive colloidal Coomassie G-250 staining for proteome analysis. *Electrophoresis* 2004, 25, 1327-1333.
- [3] Shevchenko, A., Wilm, M., Vorm, O., Mann, M., Mass spectrometric sequencing of proteins silver-stained polyacrylamide gels. *Anal Chem* 1996, 68, 850-858.

Table s1. Pluripotency Network Proteins. All proteins identified in the current study which have been experimentally linked to the pluripotency network in human and/or mouse ES cells (cite), are markers of pluripotency, or are part of the protein-protein network shared by pluripotent cells (PluriNet, [7]). Listed are the Uniprot accession number, gene, protein name, role and corresponding citation, and by which method it was identified in the current study.

Uniprot	Gene	Protein	Role (citation)	2DLC	1DE	UF
Q8CJF7	Ahctf1	Protein ELYS	interacts with Rex1, Nanog; pluripotency transcriptional network, protein interaction network (1,2)			X
O35381	Anp32a	Acidic leucine-rich nuclear phosphoprotein 32 family member A	PluriNet (5)		X	X
P07356	Anxa2	Annexin A2	PluriNet (5)	X		X
P28352	Apex1	DNA-(apurinic or apyrimidinic site) lyase	PluriNet (5)	X	X	X
Q8C6C1	Aurkb	aurora kinase B	PluriNet (5)	X		
O54825	Bysl	Bystin	PluriNet (5)	X		
P24860	Ccnb1	G2/mitotic-specific cyclin-B1	PluriNet (5)			X
P11440	Cdc2a	Cell division control protein 2 homolog	interacts with Myc; pluripotency transcriptional network (1)	X	X	X
O88545	Cops6	COP9 signalosome complex subunit 6	PluriNet (5)			X
P56546-2	Ctbp2	C-terminal-binding protein 2	PluriNet (5)	X	X	X
Q3UGB5	Dazap1	DAZ associated protein 1	PluriNet (5)	X		
P00375	Dhfr	Dihydrofolate reductase	PluriNet (5)		X	
Q8C9B9	Dido1	Isoform 1 of Death-inducer obliterator 1	target of multiple pluripotency txn factors (4)	X		
	Dpf2	Requiem	interacts with Rex1,Oct4; pluripotency protein interaction network (2)	X		
Q9CQS7	Dppa5a	Developmental pluripotency-associated protein 5A	marker of pluripotency (6)	X	X	
Q80Y81	Elac2	Zinc phosphodiesterase ELAC protein 2	PluriNet (5)	X		X
Q8R0W0	Eppk1	Epiplakin	PluriNet (5)		X	X
Q71FD7	Fblim1	Filamin-binding LIM protein 1	interacts with Zfp281 (3)	X		X
Q8C5X6	Fen1	Putative uncharacterized protein	PluriNet (5)	X		
Q3UUU2	Fubp1	Putative uncharacterized protein	PluriNet (5)	X	X	X
Q3TIX6	Fubp3	far upstream element (FUSE) binding protein 3	target of multiple pluripotency txn factors (4)	X	X	X
P56959	Fus	RNA-binding protein FUS	PluriNet (5)	X	X	X
	Gatad2a	Transcriptional repressor p66 alpha	interacts with Nac1; pluripotency protein interaction network (2)	X		
Q3THK7	Gmps	GMP synthase [glutamine-hydrolyzing]	PluriNet (5)		X	X
P05202	Got2	Aspartate aminotransferase, mitochondrial	PluriNet (5)		X	X
O09106	Hdac1	Histone deacetylase 1	PluriNet (5)	X		X
B2RRP3	Hdac2	histone deacetylase 2	interacts with Oct4,Nanog; pluripotency transcriptional network, protein interaction network, PluriNet (1,2,5)	X		
O08528	Hk2	Hexokinase-2	interacts with Zfp281 (3)		X	X
P17095	Hmga1-rs1	Isoform HMG-I of High mobility group protein HMG-I/HMG-Y	PluriNet (5)			X

	Hnrpd	heterogeneous nuclear ribonucleoprotein D-like	target of multiple pluripotency txn factors (4)	X	X	X
P00493	Hprt1	Hypoxanthine-guanine phosphoribosyltransferase	PluriNet (5)	X	X	X
Q71LX8	Hsp90ab1	MCG18238	PluriNet (5)	X	X	X
Q99M31-2	Hspa14	Heat shock 70 kDa protein 14	PluriNet (5)			X
P63017	Hspa8	Heat shock cognate 71 kDa protein	PluriNet (5)	X	X	X
Q7TSZ0	Hspa9	heat shock protein 9	PluriNet (5)	X	X	X
P63038	Hspd1	Isoform 1 of 60 kDa heat shock protein, mitochondrial	PluriNet (5)	X	X	X
Q64433	Hspe1	10 kDa heat shock protein, mitochondrial Isoform HSP105-alpha of Heat shock	PluriNet (5)	X	X	X
Q61699	Hsph1	protein 105 kDa	PluriNet (5)	X	X	X
Q62315	Jarid2	Protein Jumonji	target of multiple pluripotency txn factors (4)	X		X
P70168	Kpnb1	Importin subunit beta-1	PluriNet (5)		X	X
Q8VC85	Lsm1	U6 snRNA-associated Sm-like protein LSm1	PluriNet (5)	X		
P62313	Lsm6	U6 snRNA-associated Sm-like protein LSm6	PluriNet (5)		X	
Q3UJN1	Mcm2	Putative uncharacterized protein	PluriNet (5)	X	X	X
P25206	Mcm3	DNA replication licensing factor MCM3	PluriNet (5)	X	X	X
P49717	Mcm4	DNA replication licensing factor MCM4 minichromosome maintenance deficient	PluriNet (5)	X	X	X
Q52KC3	Mcm5	5, cell division cycle 46	PluriNet (5)	X	X	X
P97311	Mcm6	DNA replication licensing factor MCM6	PluriNet (5)	X	X	X
P51949	Mnat1	CDK-activating kinase assembly factor MAT1	PluriNet (5)	X		
P43247	Msh2	DNA mismatch repair protein Msh2	PluriNet (5)		X	X
Q6GTK8	Msh6	mutS homolog 6	target of multiple pluripotency txn factors, PluriNet (4,5)		X	X
Q922D8	Mthfd1	C-1-tetrahydrofolate synthase, cytoplasmic	PluriNet (5)		X	X
Q7TPV4	Mybbp1a	Myb-binding protein 1A	PluriNet (2,5)		X	X
P09405	Ncl	Nucleolin	PluriNet (5)	X	X	X
Q9WV70	Noc2l	Nucleolar complex protein 2 homolog	PluriNet (5)		X	X
	Nolc1	Nucleolar and coiled-body phosphoprotein 1	PluriNet (5)		X	X
Q6DFW4	Nop58	Nucleolar protein 58	PluriNet (5)	X	X	X
Q61937	Npm1	Nucleophosmin	PluriNet (5)		X	X
Q80WR0	Nup153	Nucleoporin 153	PluriNet (5)	X		X
Q9JIH2	Nup50	Nucleoporin 50 kDa	PluriNet (5)	X		
P50580	Pa2g4	Proliferation-associated protein 2G4	PluriNet (5)	X	X	X
O88643	Pak1	Serine/threonine-protein kinase PAK 1	PluriNet (5)	X		
Q3TF18	Parp1	Putative uncharacterized protein	PluriNet (5)	X	X	X
P17918	Pcna	Proliferating cell nuclear antigen	PluriNet (5)		X	X
Q9DBD5	Pelp1	Proline-, glutamic acid- and leucine-rich protein 1	PluriNet (5)		X	X
P62962	Pfn1	Profilin-1	PluriNet (5)	X	X	X
Q3TUQ5	Pnn	pinin	PluriNet (5)		X	

Q8K205	Pop1	Processing of 1, ribonuclease P/MRP family	PluriNet (5)	X		
Q91YU8	Ppan	Suppressor of SWI4 1 homolog	PluriNet (5)	X		X
Q9CR16	Ppid	40 kDa peptidyl-prolyl cis-trans isomerase	PluriNet (5) interacts with Zfp281/Rex1; pluripotency transcriptional network,protein interaction network (1,2)	X	X	X
Q9JIF0	Prmt1	Protein arginine N-methyltransferase 1			X	X
Q8CIG8	Prmt5	Protein arginine N-methyltransferase 5 Isoform 1 of PC4 and SFRS1-interacting protein	PluriNet (5)		X	X
Q99JF8	Psip1		PluriNet (5)	X	X	X
O70435	Psm3	Proteasome subunit alpha type-3	PluriNet (5)		X	X
Q9QUM9	Psm6	Proteasome subunit alpha type-6	PluriNet (5)	X	X	X
P29351-2	Ptpn6	Tyrosine-protein phosphatase non-receptor type 6	PluriNet (5)	X		
Q8VI36	Pxn	Paxillin	PluriNet (5)	X		
Q9EP71	Rai14	Ankyrin	interacts with Rex1; pluripotency protein interaction network (2) target of multiple pluripotency txn factors (4)	X		
Q3U3G1	Rbbp5	retinoblastoma binding protein 5				X
Q8C2Q3	Rbm14	RNA-binding protein 14	PluriNet (5)		X	
Q8R323	Rfc3	Replication factor C subunit 3	PluriNet (5) interacts with Nanog,Dax1, pluripotency transcriptional network, protein interaction network (1,2)			X
Q6PR54	Rif1	Telomere-associated protein RIF1			X	X
Q9CQJ4	Rnf2	E3 ubiquitin-protein ligase RING2		X		
Q3UJN2	Ruvb1	Putative uncharacterized protein	PluriNet (5)	X	X	X
Q6P5E3	Sall1	sal-like 1	interacts with Nanog,Nac1, pluripotency transcriptional network, protein interaction network (1,2)			X
Q8BX22	Sall4	Isoform 1 of Sal-like protein 4		X		X
Q8C671	Sfrs2	Putative uncharacterized protein	PluriNet (1,5)		X	X
Q923E4	Sirt1	NAD-dependent deacetylase sirtuin-1	PluriNet (5)			X
P97496	Smarcc1	SWI/SNF complex subunit SMARCC1	PluriNet (5)	X	X	X
P97801	Smn1	Survival motor neuron protein	PluriNet (5)			X
Q8BGT7	Smndc1	Survival of motor neuron-related-splicing factor 30	PluriNet (5)	X		
Q62189	Snrpa	U1 small nuclear ribonucleoprotein A	PluriNet (5)	X	X	X
P62315	Snrpd1	Small nuclear ribonucleoprotein Sm D1	PluriNet (5)	X	X	
P62305	Snrpe	Small nuclear ribonucleoprotein E	PluriNet (5)		X	X
P63163	Snrpn	Small nuclear ribonucleoprotein-associated protein N	PluriNet (5)	X	X	
Q60I23	Sox2	sex-determining region Y-box 2	Core txn factor (1)	X		
P32067	Ssb	Lupus La protein homolog	PluriNet (5)	X	X	X
Q08943-2	Ssrp1	FACT complex subunit SSRP1	interacts with Zfp281 (3)		X	X
P54227	Stmn1	Stathmin	interacts with Zfp281 (3)	X	X	X

Q7TMK9	Syncrip	Isoform 1 of Heterogeneous nuclear ribonucleoprotein Q	PluriNet (5)	X	X	X
Q8CGF7	Tcerg1	Transcription elongation regulator 1	PluriNet (5)	X		
	Tcf3	transcription factor E2a	interacts with Zfp281 (3)	X		
Q7TPZ2	Tcof1	Tcof1 protein (Fragment)	PluriNet (5)			X
Q3UCI5	Tmpo	Thymopoietin	PluriNet (5)	X	X	X
A2APB8	Tpx2	TPX2, microtubule-associated protein homolog	PluriNet (5)	X		
			interacts with Zpf281; pluripotency transcriptional network; PluriNet (1,5)			
Q62318	Trim28	Isoform 1 of Transcription intermediary factor 1-beta		X	X	X
Q6J1H4	Utf1	Undifferentiated embryonic cell transcription factor 1	interacts with Zfp281 (3)		X	X
P70460	Vasp	Vasodilator-stimulated phosphoprotein	PluriNet (5)			X
			interacts with Myc/Rex1/Nac1; pluripotency transcriptional network, protein interaction			
Q4VBE8	Wdr18	WD repeat-containing protein 18	network (1,2)			X
Q99J09	Wdr77	Methylosome protein 50	PluriNet (5)			X
P27641	Xrcc5	ATP-dependent DNA helicase 2 subunit 2	PluriNet (5)		X	
Q6IQX8	Zfp219	zinc finger protein 219	interacts with Oct4; pluripotency transcriptional network (1,2)	X		X
			interacts with Nanog, pluripotency transcriptional network, protein interaction			
Q99LI5	Zfp281	Zinc finger protein 281	network (1,2)	X		

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(2) Wang et al, Nature 2006, 444, 364-368.

(3) Wang et al, Stem Cells 2008, 26, 2791-2799.

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(5) Muller et al, Nature 2008, 455, 401-405.

(6) Kim et al, Stem Cells. 2005 Apr;23(4):458-62.

Table s2. Proteins identified in the current study. Listed are the IPI and UniProt accession numbers, gene symbol, protein name, by which strategy the protein was identified (2DLC, 1DE, UF), which strategy provided information for isoform determination, number of transmembrane domains, protein length, sequence coverage observed, protein probability, number of unique peptides and number of unique peptide sequences observed.

IPI	UNIPROT	GENE	Protein	Evidence for Isoform identified in			TM	LENGTH (AA)	Coverage (%)			Protein Probability			# Unique Peptides			# Unique Peptide Sequences		
				2DLC	1DE	UF			2DLC	1DE	UF	2DLC	1DE	UF	2DLC	1DE	UF	2DLC	1DE	UF
IPI00321308.4	Q8BGQ7	Aars	Alanyl-tRNA synthetase, cytoplasmic		X	X	0	968	0	22	19	1.00	1.00	0	13	12	0	13	12	
IPI00648915.1	A2A4P4	Aarsd1	Alanyl-tRNA synthetase domain containing 1	X			0	543	30	0	0	1.00		7	0	0	7	0	0	
IPI00265219.4	Q5SSE9	Abca13	ATP-binding cassette sub-family A member 13			X	17	5034	0	0	3		0.98	0	0	6	0	0	6	
IPI00111686.5	Q3TZN9	Abcc4	Putative uncharacterized protein		X		11	1325	0	2	0	1.00		0	2	0	0	2	0	
IPI00135646.1	P55096	Abcd3	ATP-binding cassette sub-family D member 3		X		5	659	0	7	0		0.96	0	2	0	0	2	0	
IPI00322869.3	P61222	Abce1	ATP-binding cassette sub-family E member 1	X	X	X	0	599	7	43	21	0.99	1.00	1.00	2	19	9	2	19	9
IPI00396671.1	Q6P542	Abcf1	ATP-binding cassette sub-family F member 1	X	X		0	837	12	6	0	1.00	1.00		9	4	0	8	4	0
IPI00116825.1	Q99LE6	Abcf2	ATP-binding cassette sub-family F member 2		X	X	0	628	0	13	4	1.00	1.00	0	7	2	0	7	2	
IPI00471226.2	Q9QYL7	Abt1	Activator of basal transcription 1	X			0	269	20	0	0	1.00		5	0	0	5	0	0	
IPI00121833.3	Q921H8	Acaa1a	3-ketoacyl-CoA thiolase A, peroxisomal			X	0	424	0	0	14		1.00	0	0	3	0	0	3	
IPI00848443.1	Q5SWU9-2	Acaca	Acetyl-CoA carboxylase 1		X		2	2383	0	4	0	1.00		0	8	0	0	8	0	
IPI00330747.2	Q80XL6	Acad11	Acyl-CoA dehydrogenase family member 11		X		1	779	0	4	0		0.95	0	2	0	0	2	0	
IPI00759881.1	Q3ULL9	Acad9	very-long-chain acyl-CoA dehydrogenase VLCAD homolog precursor		X	X	4	625	0	11	6	1.00	1.00	0	4	2	0	4	2	
IPI00134961.1	P45952	Acadm	Medium-chain specific acyl-CoA dehydrogenase, mitochondrial		X	X	0	421	0	19	11	1.00	1.00	0	5	2	0	5	2	
IPI00121136.6	Q9JIX8	Acin1	Apoptotic chromatin condensation inducer in the nucleus	X		X	0	1338	2	0	4	1.00	1.00	3	0	3	3	0	3	
IPI00126248.3	Q3V117	Acly	Putative uncharacterized protein		X	X	2	1101	0	17	11	1.00	1.00	0	13	9	0	13	9	
IPI00116074.1	Q99KI0	Aco2	Aconitate hydratase, mitochondrial	X	X	X	1	780	9	19	5	1.00	1.00	4	12	3	4	12	3	
IPI00132958.1	Q9CQR4	Acot13	Acyl-coenzyme A thioesterase 13		X		0	140	0	16	0	1.00		0	2	0	0	2	0	
IPI00556850.1	Q561M1	Acp1	acid phosphatase 1			X	0	158	0	0	13		0.96	0	0	3	0	0	3	
IPI00411079.2	Q5D071	Acs14	Acyl-CoA synthetase long-chain family member 4		X		1	711	0	4	0		0.99	0	3	0	0	3	0	
IPI00221528.1	Q8BFZ3	Actb12	Beta-actin-like protein 2	X	X	X	0	376	17	33	29	1.00	1.00	1.00	3	13	11	3	8	9
IPI00114593.1	P68033	Actc1	Actin, alpha cardiac muscle 1	X	X		0	377	16	24	0	1.00	1.00	5	9	0	4	9	0	
IPI00874482.1	P63260	Actg1	Actin, cytoplasmic 2	X			0	375	26	0	0	1.00		6	0	0	6	0	0	
IPI00323660.1	Q9Z2N8	Actl6a	Actin-like protein 6A	X	X	X	1	429	14	5	12	1.00	1.00	1.00	3	2	3	3	2	3
IPI00380436.1	Q7TPR4	Actn1	Alpha-actinin-1	X	X	X	1	892	3	19	20	0.00	1.00	1.00	2	15	14	2	14	14
IPI00118899.1	P57780	Actn4	Alpha-actinin-4	X	X	X	1	912	16	30	28	1.00	1.00	1.00	11	21	19	10	20	19
IPI00113895.1	P61164	Actr1a	Alpha-centractin			X	1	376	0	0	6		1.00	0	0	2	0	0	2	
IPI00177038.1	P61161	Actr2	Actin-related protein 2			X	1	394	0	0	8		0.99	0	0	3	0	0	3	
IPI00115627.4	Q99JY9	Actr3	Actin-related protein 3		X		1	418	0	0	11		1.00	0	0	2	0	0	2	
IPI00261467.6	P03958	Ada	Adenosine deaminase			X	0	352	0	0	7		0.96	0	0	2	0	0	2	
IPI00395222.1	Q99MU3	Adar	Isoform 1 or 2 of Double-stranded RNA-specific adenosine deaminase	X			2DLC	0	1178	3	0	0	0.99		2	0	0	2	0	0
IPI00555004.3	P28474	Adh5	Alcohol dehydrogenase class-3		X	X	1	374	0	30	12	1.00	1.00	0	6	3	0	6	3	
IPI00126940.1	P55264	Adk	Isoform Long of Adenosine kinase		X		1DE	1	361	0	21	0	1.00		0	4	0	0	4	0

IPI00265471.2	Q3TMB8	Adsl	Putative uncharacterized protein		X	X		0	484	0	13	7	1.00	1.00	0	3	2	0	3	2
IPI00135969.2	P46664	Adss	Adenylosuccinate synthetase isozyme 2			X		2	456	0	0	20		1.00	0	0	7	0	0	7
IPI00467786.2	Q8C095	Aen	Apoptosis-enhancing nuclease		X			0	366	12	0	0	1.00		3	0	0	3	0	0
IPI00229454.1	P63002-2	Aes	Amino-terminal enhancer of split		X			0	202	14	0	0	1.00		2	0	0	2	0	0
IPI00170357.5	Q8JZQ2	Afg3l2	AFG3-like protein 2			X		2	802	0	6	0	1.00		0	5	0	0	5	0
IPI00223818.2	A2AL50	Agps	Alkylglycerone phosphate synthase		X			0	671	0	16	0	1.00		0	6	0	0	6	0
IPI00122594.4	Q8CJF7	Ahctf1	Protein ELYS			X		2	2243	0	0	1		1.00	0	0	2	0	0	2
IPI00230440.6	P50247	Ahcy	Adenosylhomocysteinase		X	X		1	432	0	41	37	1.00	1.00	0	13	13	0	13	12
IPI00553798.2	A0PJF4	Ahnak	AHNAK nucleoprotein		X	X	X	0	5656	4	8	9	1.00	1.00	1.00	9	4	7	9	4
IPI00153740.1	Q8BK64	Ahsa1	Activator of 90 kDa heat shock protein ATPase homolog 1		X	X		0	338	23	27	0	1.00	1.00		4	5	0	4	5
IPI00828748.1	A2ALW0	Al314180	Novel protein containing 10 HEAT domains Uncharacterized protein C14orf133		X			6	1840	0	2	0	1.00		0	2	0	0	2	0
IPI00400395.1	Q8BGQ1	Al413782	homolog		X			1	491	12	0	0	1.00		4	0	0	4	0	0
IPI00129577.1	Q9Z0X1	Aifm1	Apoptosis-inducing factor 1, mitochondrial small inducible cytokine subfamily E, member 1		X			2	612	0	16	0	1.00		0	7	0	0	7	0
IPI00132194.3	Q3UZG4	Aimp1	Aminoacyl tRNA synthetase complex-interacting multifunctional protein 2		X	X		0	319	29	0	18	1.00	1.00	7	0	4	7	0	4
IPI00153103.3	Q8R010	Aimp2	Adherens junction-associated protein 1		X	X	X	0	320	11	20	31	1.00	1.00	1.00	2	3	4	2	3
IPI00125794.6	A2ALI5	Ajap1	Adenylate kinase isoenzyme 1			X		2	412	0	0	12		0.91	0	0	3	0	0	3
IPI00750256.2	Q9R0Y5-2	Ak1	Adenylate kinase 2, mitochondrial		X	X		0	210	9	0	17	0.99		0.99	2	0	2	2	0
IPI00648318.1	Q9WTP6	Ak2	Isoform 1 of A-kinase anchor protein 12		X			0	239	0	21	0	1.00		0	3	0	0	3	0
IPI00123709.1	Q9WTQ5	Akap12	A-kinase anchor protein 2		X	X	X	0	1684	31	30	10	1.00	1.00	1.00	34	32	11	31	32
IPI00649060.1	O54931	Akap2	A-kinase anchor protein 8		X			0	1137	12	0	0	1.00		10	0	0	9	0	0
IPI00321739.1	Q9DBR0	Akap8	Alcohol dehydrogenase [NADP+]		X			0	687	5	0	0	1.00		2	0	0	2	0	0
IPI00466128.3	Q9JII6	Akr1a4	Aldose reductase		X		X	0	325	16	0	6	1.00		1.00	4	0	2	3	0
IPI00223757.4	P45376	Akr1b3	Aldo-keto reductase family 1 member C21		X	X	X	0	316	34	50	50	1.00	1.00	1.00	5	12	11	5	12
IPI00830240.1	Q91WR5	Akr1c21	Delta-1-pyrroline-5-carboxylate synthetase			X		1	795	0	24	0	1.00		0	15	0	0	14	0
IPI00111218.1	P47738	Aldh2	Aldehyde dehydrogenase, mitochondrial		X	X		0	519	0	21	19	1.00	1.00	0	8	6	0	8	6
IPI00856379.1	A6Z144	Aldoa	Fructose-bisphosphate aldolase		X	X	X	0	418	47	61	52	1.00	1.00	1.00	18	20	16	16	20
IPI00263333.1	Q8K371	Amotl2	Isoform 1 of Angiomotin-like protein 2		X			0	772	7	0	0	1.00		2	0	0	2	0	0
IPI00229274.1	Q8CFA2	Amt	Aminomethyltransferase, mitochondrial			X		0	403	0	0	9		0.99	0	0	2	0	0	2
IPI00153118.1	Q8R034	Anapc13	Anaphase-promoting complex subunit 13		X			0	74	38	0	0	1.00		2	0	0	2	0	0
IPI00465535.1	Q99NH0	Ankrd17	Ankyrin repeat domain-containing protein 17			X		4	2603	0	0	1		1.00	0	0	2	0	0	2
IPI00172197.2	Q8K298	Anln	Actin-binding protein anillin		X	X		0	1121	10	0	6	1.00		1.00	7	0	5	7	0
IPI00756965.1	A2AHL1	Ano3	Anoctamin-3			X		9	981	0	0	5		0.95	0	0	2	0	0	2
IPI00314736.3	O35381	Anp32a	Acidic leucine-rich nuclear phosphoprotein 32 family member A		X	X		0	247	0	28	11	1.00	1.00	0	6	3	0	6	3
IPI00113536.3	Q9EST5-2	Anp32b	Acidic leucine-rich nuclear phosphoprotein 32 family member B		X	X		1	329	0	23	30	1.00	1.00	0	8	8	0	8	8
IPI00130016.1	P97822	Anp32e	Acidic leucine-rich nuclear phosphoprotein 32 family member E			X		0	260	0	0	11		1.00	0	0	2	0	0	2
IPI00652811.1	Q3US43	Anxa1	Putative uncharacterized protein			X		0	355	0	0	11		1.00	0	0	2	0	0	2
IPI00468203.3	P07356	Anxa2	Annexin A2		X	X		0	339	14	0	17	1.00		1.00	3	0	3	3	0
IPI00554894.2	P14824	Anxa6	Annexin A6			X	X	0	673	0	19	5	1.00	0.97	0	12	4	0	12	4
IPI00648683.3	Q8CC13	Ap1b1	Putative uncharacterized protein		X	X		1	953	0	22	14	1.00	1.00	0	13	7	0	13	7
IPI00224151.5	Q3UKX8	Ap1g1	Putative uncharacterized protein		X	X		0	825	0	6	7	1.00	1.00	0	3	3	0	3	3

IPI00108780.7	P17426	Ap2a1	AP-2 complex subunit alpha-1 adaptor protein complex AP-2, alpha 2 subunit		X		2	977	0	0	5		1.00	0	0	3	0	0	3	
IPI00753468.2	Q8C2J5	Ap2a2		X	X		1	938	1	10	0	0.00	1.00	1	7	0	1	7	0	
IPI00378063.1	Q9DBG3-2	Ap2b1	AP-2 complex subunit beta		X	X	1	951	0	17	13		1.00	1.00	0	12	7	0	12	7
IPI00116356.5	P84091	Ap2m1	AP-2 complex subunit mu			X	1	435	0	0	6		1.00	0	0	2	0	0	2	
IPI00118022.1	P62743	Ap2s1	AP-2 complex subunit sigma			X	0	142	0	13	0		1.00	0	2	0	0	2	0	
IPI00224152.5	P28352	Apex1	DNA-(apurinic or apyrimidinic site) lyase	X	X	X	0	317	18	18	17	1.00	1.00	1.00	3	3	4	3	3	4
IPI00399961.2	Q3UYQ4	Api5	Putative uncharacterized protein		X	X	0	524	0	12	15		1.00	1.00	0	3	5	0	3	5
IPI00330933.6	Q9WVQ5	Apij	APAF1-interacting protein		X		0	241	13	0	0	0.99		2	0	0	2	0	0	
IPI00625950.2	Q6PK77	Aprt	adenine phosphoribosyltransferase		X	X	0	180	0	67	35		1.00	1.00	0	8	5	0	8	5
IPI00377288.3	Q4LDD4	Arap1	Arf-GAP with Rho-GAP domain, ANK repeat and PH domain-containing protein 1			X	1	1452	0	0	3		1.00	0	0	3	0	0	3	
IPI00849044.2	Q91W48	Arcn1	Putative uncharacterized protein		X		0	511	12	0	0	1.00		5	0	0	5	0	0	
IPI00758413.2	Q3V4D5	Ard1a	N-acetyltransferase ARD1 homolog (S. cerevisiae), isoform CRA_b	X		X	UF	0	225	17	0	11	0.01	1.00	3	0	2	2	0	2
IPI00221613.5	P84078	Arf1	ADP-ribosylation factor 1		X	X	0	181	0	49	19		1.00	0.93	0	8	3	0	7	3
IPI00876029.1	P61750	Arf4	ADP-ribosylation factor 4			X	0	181	0	38	0		1.00	0	5	0	0	4	0	
IPI00221615.5	P84084	Arf5	ADP-ribosylation factor 5			X	0	180	0	0	19		0.96	0	0	3	0	0	3	
IPI00387227.1	Q9EPJ9	Arfgap1	Isoform 1 of ADP-ribosylation factor GTPase-activating protein 1	X			2DLC	0	414	21	0	0	1.00		5	0	0	5	0	0
IPI00109656.2	Q99K28-2	Arfgap2	ADP-ribosylation factor GTPase-activating protein 2		X		0	534	10	0	0	1.00		3	0	0	3	0	0	
IPI00322312.3	Q99PT1	Arhgdia	Rho GDP-dissociation inhibitor 1	X	X	X	0	204	33	41	23	1.00	1.00	1.00	6	7	3	5	7	3
IPI00652900.1	Q61210-5	Arhgef1	Rho guanine nucleotide exchange factor 1		X		0	979	7	0	0	1.00		4	0	0	4	0	0	
IPI00655136.3	Q9ES28	Arhgef7	Rho guanine nucleotide exchange factor 7	X			0	862	4	0	0	1.00		2	0	0	2	0	0	
IPI00648459.1	A2BH40	Arid1a	AT rich interactive domain 1A		X		1	2283	7	0	0	1.00		10	0	0	8	0	0	
IPI00848707.3		Arid1b	AT rich interactive domain 1B		X		4	2244	2	0	0	1.00		2	0	0	2	0	0	
IPI00278498.10	P61211	Arf1	ADP-ribosylation factor-like protein 1			X	0	181	0	11	0	1.00		0	2	0	0	2	0	
IPI00124787.3	Q9WUL7	Arf3	ADP-ribosylation factor-like protein 3	X			0	182	41	0	0	1.00		4	0	0	4	0	0	
IPI00137460.3	Q9D0L7	Armc10	Armadillo repeat-containing protein 10			X	2	387	0	0	15		1.00	0	0	2	0	0	2	
IPI00661414.2	Q9CVB6	Arpc2	Actin-related protein 2/3 complex subunit 2			X	0	300	0	0	6		1.00	0	0	2	0	0	2	
IPI00124829.5	Q9JM76	Arpc3	Actin-related protein 2/3 complex subunit 3	X			0	178	13	0	0	1.00		2	0	0	2	0	0	
IPI00138691.6	P59999	Arpc4	Actin-related protein 2/3 complex subunit 4	X			0	168	11	0	0	1.00		2	0	0	2	0	0	
IPI00399943.3	Q9CPW4	Arpc5	Actin-related protein 2/3 complex subunit 5	X			0	151	13	0	0	0.95		2	0	0	2	0	0	
IPI00111117.5	Q9D898	Arpc5l	Actin-related protein 2/3 complex subunit 5-like protein	X		X	0	153	29	0	22	1.00	1.00	3	0	3	3	0	3	
IPI00647964.2	Q91YI4-2	Arrb2	Beta-arrestin-2		X		0	421	7	0	0	1.00		2	0	0	2	0	0	
IPI00127472.2	P98203-3	Arvcf	Armadillo repeat protein deleted in velo-cardio-facial syndrome homolog	X			0	976	4	0	0	1.00		2	0	0	2	0	0	
IPI00134544.3	Q9QWY8	Asap1	Arf-GAP with SH3 domain, ANK repeat and PH domain-containing protein 1	X			0	1147	4	0	0	0.96		2	0	0	2	0	0	
IPI00553465.4	Q99MY8	Ash1l	Probable histone-lysine N-methyltransferase ASH1L			X	0	2958	0	0	4		0.98	0	0	9	0	0	9	
IPI00131513.5	Q91X20	Ash2l	Set1/Ash2 histone methyltransferase complex subunit ASH2	X			0	623	8	0	0	1.00		3	0	0	3	0	0	
IPI00314788.5	Q91YI0	Asl	Argininosuccinate lyase			X	2	464	0	0	8		1.00	0	0	3	0	0	3	
IPI00116966.8	Q61024	Asns	Asparagine synthetase [glutamine-hydrolyzing]			X	1	561	0	0	9		1.00	0	0	4	0	0	4	

IPI00121364.2	Q8VBT9	Aspscr1	Tether containing UBX domain for GLUT4	X		0	550	6	0	0	1.00		2	0	0	2	0	0		
IPI00134746.5	P16460	Ass1	Argininosuccinate synthase	X		0	412	24	0	0	1.00		6	0	0	5	0	0		
IPI00126913.5	Q92511	Atad3a	ATPase family AAA domain-containing protein 3		X	X	0	591	0	9	8	1.00	0.99	0	4	2	0	4	2	
IPI00117379.3	O08997	Atox1	Copper transport protein ATOX1	X	X	X	0	68	21	59	46	0.96	1.00	1.00	2	4	2	2	4	2
IPI00311682.5	Q8VDN2	Atp1a1	Sodium/potassium-transporting ATPase subunit alpha-1		X	X	7	1023	0	22	5	1.00	1.00	0	19	5	0	18	5	
IPI00124221.1	P97370	Atp1b3	Sodium/potassium-transporting ATPase subunit beta-3			X	0	278	0	0	13		1.00	0	0	2	0	0	2	
IPI00311654.4	Q8R429	Atp2a1	Sarcoplasmic/endoplasmic reticulum calcium ATPase 1		X		10	994	0	6	0	0.96		0	4	0	0	4	0	
IPI00338964.3	O55143	Atp2a2	Sarcoplasmic/endoplasmic reticulum calcium ATPase 2		X	X	11	1044	0	11	9	1.00	1.00	0	7	6	0	7	6	
IPI00130280.1	Q03265	Atp5a1	ATP synthase subunit alpha, mitochondrial	X	X		0	553	0	42	37	1.00	1.00	0	20	18	0	19	18	
IPI00468481.2	P56480	Atp5b	ATP synthase subunit beta, mitochondrial	X	X		2	529	0	66	51	1.00	1.00	0	25	20	0	21	19	
IPI00313475.1	Q91VR2	Atp5c1	ATP synthase subunit gamma, mitochondrial		X	X	0	298	0	36	8	1.00	1.00	0	8	2	0	8	2	
IPI00453777.2	Q9D3D9	Atp5d	ATP synthase subunit delta, mitochondrial	X			1	168	0	38	0	1.00		0	4	0	0	4	0	
IPI00341282.2	Q9CQQ7	Atp5f1	ATP synthase subunit f, mitochondrial		X	X	1	256	0	29	20	1.00	1.00	0	6	4	0	6	4	
IPI00230507.5	Q9DCX2	Atp5h	ATP synthase subunit h, mitochondrial	X	X	X	0	161	18	42	43	0.97	1.00	1.00	2	7	5	2	6	5
IPI00271986.6	P56135	Atp5j2	ATP synthase subunit j, mitochondrial		X		1	88	0	33	0	1.00		0	3	0	0	3	0	
IPI00111770.7	Q06185	Atp5k	ATP synthase subunit k, mitochondrial		X		0	71	0	70	0	1.00		0	5	0	0	5	0	
IPI00133342.1	Q9CQY3	Atp5l	Putative uncharacterized protein		X		1	129	0	39	0	1.00		0	7	0	0	5	0	
IPI00407692.3	P50516	Atp6v1a	V-type proton ATPase catalytic subunit A		X		0	617	0	6	0	1.00		0	3	0	0	3	0	
IPI00119113.3	P62814	Atp6v1b2	V-type proton ATPase subunit B, brain isoform			X	1	511	0	0	7		1.00	0	0	2	0	0	2	
IPI00118787.1	P57746	Atp6v1d	V-type proton ATPase subunit D	X			0	247	18	0	0	1.00		4	0	0	3	0	0	
IPI00116896.1	P03930	ATP8	ATP synthase protein 8		X		1	67	0	43	0		1.00	0	3	0	0	3	0	
IPI00223024.3	Q8BMG1	Atrip	ATR-interacting protein			X	4	785	0	0	5		0.94	0	0	2	0	0	2	
IPI00123202.1	P28658	Atxn10	Ataxin-10		X	X	1	475	0	11	15	0.99	1.00	0	5	5	0	5	5	
IPI00117229.3	Q62506	Atxn2	Ataxin 2		X		0	1286	8	0	0	1.00		6	0	0	6	0	0	
IPI00458001.1	Q7TQH0-2	Atxn2l	Ataxin-2-like protein	X		X	0	1074	14	0	3	1.00	0.99	11	0	2	10	0	2	
IPI00230633.1	P97477-2	Aurka	Serine/threonine-protein kinase 6	X			0	417	13	0	0	1.00		3	0	0	3	0	0	
IPI00387315.1	Q8C6C1	Aurkb	aurora kinase B	X			0	345	9	0	0	0.98		2	0	0	2	0	0	
IPI00226228.5	Q62036	Azi1	5-azacytidine-induced protein 1	X			0	1060	3	0	0	1.00		3	0	0	2	0	0	
IPI00387388.3	A6H663	Bag3	BCL2-associated athanogene 3	X			0	577	19	0	0	1.00		8	0	0	7	0	0	
IPI00895277.1	B1ASC0	Bai2	Brain-specific angiogenesis inhibitor 2			X	9	1473	0	0	6		0.99	0	0	4	0	0	4	
IPI00119959.1	O54962	Banf1	Barrier-to-autointegration factor	X	X	X	0	89	43	56	27	1.00	1.00	1.00	5	6	2	3	5	2
IPI00129519.3	Q91XV3	Basp1	Brain acid soluble protein 1	X			0	226	46	0	0	1.00		6	0	0	6	0	0	
IPI00409462.2	Q9Z1N5	Bat1a	Spliceosome RNA helicase Bat1	X	X	X	0	428	19	29	34	1.00	1.00	1.00	7	10	13	7	10	12
IPI00380722.1	Q7TSC1	Bat2	Large proline-rich protein BAT2	X			0	2158	3	0	0	1.00		3	0	0	3	0	0	
IPI00330171.3	Q3TLH4	Bat2d	BAT2 domain-containing protein 1	X		X	2	2950	13	0	8	1.00		1.00	11	0	2	11	0	2
IPI00380415.2	Q7TPM1	Bat2l	Protein BAT2-like	X			0	1486	4	0	0	1.00		3	0	0	3	0	0	
IPI00120684.2	Q07813	Bax	Apoptosis regulator BAX		X		1	192	0	12	0		1.00	0	2	0	0	2	0	
IPI00130157.2	Q91YE5	Baz2a	bromodomain adjacent to zinc finger domain, 2A			X	0	1887	0	0	2		0.94	0	0	2	0	0	2	
IPI00625898.3	Q8VBW5	Bbx	Isoform 1 or 2 of HMG box transcription factor BBX	X		2DLC	1	907	4	0	0	1.00		2	0	0	2	0	0	
IPI00115553.2	Q3TQI7	BC005624	Uncharacterized protein C9orf78 homolog	X			0	289	39	0	0	1.00		10	0	0	7	0	0	

				Novel protein, possible orthologue of human peroxisomal proliferator-activated receptor A interacting complex 285																	
IPI00653023.2	A2AS03	BC006779	PRIC285		X		3	2970	0	1	0		0.98		0	2	0	0	2	0	
IPI00347814.2	Q5U445	BC085271	cDNA sequence BC085271	X	X		0	289	15	34	0	1.00	1.00		3	7	0	3	7	0	
IPI00279010.6	Q99K86	Bcam	Bcam protein	X			1	650	11	0	0	1.00			4	0	0	4	0	0	
IPI00316184.1	Q9D287	Bcas2	Pre-mRNA-splicing factor SPF27	X			0	225	11	0	0	1.00			2	0	0	2	0	0	
IPI00415385.1	Q8K019	Bclaf1	Bcl-2-associated transcription factor 1	X			0	919	2	0	0	1.00			2	0	0	2	0	0	
IPI00134095.3		Birc6	baculoviral IAP repeat-containing 6		X		15	4854	0	1	0		1.00		0	5	0	0	4	0	
IPI00153107.3	Q8R016	Blmh	Bleomycin hydrolase			X	0	455	0	0	11		1.00		0	0	3	0	0	3	
IPI00857740.1	Q923D2	Blvrh	Flavin reductase	X	X		0	247	26	12	0	1.00	1.00		4	2	0	3	2	0	
IPI00453860.2	Q6PGF5	Bms1	BMS1-like, ribosome assembly protein	X			1	1284	2	0	0	0.98			2	0	0	2	0	0	
IPI00111953.1	Q9D8S9	Bola1	BolA-like protein 1	X			0	137	28	0	0	0.91			2	0	0	2	0	0	
IPI00221694.1	Q8BGS2	Bola2	Isoform 1 of Bola-like protein 2		X	1DE	0	86	0	33	0		1.00		0	2	0	0	2	0	
IPI00387354.5	P97452	Bop1	Ribosome biogenesis protein BOP1		X	X	0	732	0	5	6		1.00	0.99	0	2	4	0	2	4	
IPI00133099.1	O88665	Brd7	Bromodomain-containing protein 7	X			0	651	8	0	0	1.00			4	0	0	3	0	0	
IPI00130436.5	Q9DCA5	Brix1	Brix domain-containing protein 2	X	X		1	353	30	10	0	1.00	1.00		7	3	0	7	3	0	
IPI00408495.1	P18572	Bsg	Basigin		X		1	389	0	6	0		1.00		0	2	0	0	2	0	
IPI00515257.1	Q64152	Btf3	Isoform 1 of Transcription factor BTF3	X	X	X	2DLC	0	204	66	37	46	1.00	1.00	1.00	10	3	4	8	3	4
IPI00132539.3	Q9CQH7	Btf3l4	Transcription factor BTF3 homolog 4	X			0	158	42	0	0	1.00			7	0	0	5	0	0	
IPI00420724.4	O6ZWM5	Bub3	Putative uncharacterized protein	X			0	326	16	0	0	1.00			4	0	0	3	0	0	
IPI00118762.6	O54825	Bysl	Bystin	X			1	436	16	0	0	1.00			6	0	0	5	0	0	
IPI00132388.3	Q9CQC6	Bzw1	Basic leucine zipper and W2 domain-containing protein 1		X		2	419	0	10	0		1.00		0	3	0	0	3	0	
IPI00330711.4	Q3U155	C130022K22Rik	Uncharacterized protein C3orf19 homolog	X			0	467	8	0	0	1.00			3	0	0	3	0	0	
IPI00132799.4	Q8R5L1	C1qbp	complement component 1, q subcomponent binding protein	X	X	X	0	279	22	40	27	1.00	1.00	1.00	5	7	3	5	6	3	
IPI00226576.1	Q8BWZ3	C330023M02Rik	N-terminal acetyltransferase B complex subunit MDM20		X		3	972	0	15	0		1.00		0	9	0	0	8	0	
IPI00115650.4	Q9CXW3	Cacybp	Calcyclin-binding protein	X	X	X	0	229	50	35	22	1.00	1.00	1.00	18	6	5	12	6	5	
IPI00380280.3	B2RQC6	Cad	carbamoyl-phosphate synthetase 2, aspartate transcarbamylase, and dihydroorotase		X	X	3	2225	0	34	12		1.00	1.00	0	55	17	0	54	17	
IPI00311344.3		Cald1	89 kDa protein	X			0	769	13	0	0	1.00			6	0	0	6	0	0	
IPI00467841.6	Q3UKW2	Calm1	Putative uncharacterized protein	X			0	197	28	0	0	1.00			3	0	0	3	0	0	
IPI00123639.1	P14211	Calr	Calreticulin		X	X	0	416	0	22	22		1.00	1.00	0	7	8	0	7	8	
IPI00135186.1	O35887	Calu	Calumenin	X			0	315	51	0	0	1.00			14	0	0	12	0	0	
IPI00673777.2	A2AHC3	Camsap1	Isoform 1 of Calmodulin-regulated spectrin-associated protein 1	X		2DLC	2	1581	3	0	0	1.00			3	0	0	3	0	0	
IPI00670928.3		Camsap11	calmodulin regulated spectrin-associated protein 1-like 1	X			2	1478	2	0	0	0.99			2	0	0	2	0	0	
IPI00896727.1	Q6ZQ38	Cand1	Cullin-associated NEDD8-dissociated protein 1		X	X	3	1230	0	15	13		1.00	1.00	0	12	10	0	12	10	
IPI00119618.1	P35564	Canx	Calnexin		X	X	1	591	0	31	19		1.00	1.00	0	17	9	0	17	9	
IPI00869430.1	Q8BPT7	Cap1	Adenylyl cyclase-associated protein	X	X	X	0	474	8	15	16	1.00	1.00	1.00	2	4	5	2	4	5	
IPI00277930.6	P24452	Capg	Macrophage-capping protein	X			0	350	25	0	0	1.00			5	0	0	5	0	0	
IPI00757359.1	Q60865	Caprin1	Caprin-1	X	X	X	0	707	22	11	17	1.00	1.00	1.00	12	7	7	9	7	7	
IPI00330063.6	P47753	Capza1	F-actin-capping protein subunit alpha-1	X		X	0	286	29	0	9	1.00		0.99	5	0	2	5	0	2	
IPI00111265.3	P47754	Capza2	F-actin-capping protein subunit alpha-2	X	X	X	0	286	22	9	9	1.00	1.00	1.00	4	2	2	4	2	2	
IPI00474883.2	A2AMV7	Capzb	Capping protein (Actin filament) muscle Z-line, beta			X	0	301	0	0	11		1.00		0	0	2	0	0	2	
IPI00121534.11	P00920	Car2	Carbonic anhydrase 2	X	X	X	1	260	16	15	20	1.00	1.00	1.00	2	3	3	2	3	3	

IPI00331422.4	Q9ER72	Cars	CysteinyI-tRNA synthetase, cytoplasmic	X		1	831	3	0	0	1.00		2	0	0	2	0	0		
IPI00409176.1	P51125	Cast	Calpastatin	X		0	788	17	0	0	1.00		8	0	0	7	0	0		
IPI00312058.5	P24270	Cat	Catalase	X		1	527	9	0	0	1.00		4	0	0	3	0	0		
IPI00652341.1	Q3U527	Cbl	Casitas B-lineage lymphoma	X		0	913	2	0	0	0.98		2	0	0	2	0	0		
IPI00844721.1	Q9JIY2	Cbl1	E3 ubiquitin-protein ligase Hakai	X		0	491	6	0	0	0.99		2	0	0	2	0	0		
IPI00314191.6	P48758	Cbr1	Carbonyl reductase [NADPH] 1	X		0	277	22	0	0	1.00		3	0	0	3	0	0		
IPI00677454.2	Q9DCC5	Cbx3	Chromobox homolog 3	X	X	0	183	24	39	0	1.00	1.00	8	4	0	5	4	0		
IPI00458723.2	Q9D8X2	Ccdc124	Coiled-coil domain-containing protein 124	X		0	217	18	0	0	1.00		3	0	0	3	0	0		
IPI00122137.6	Q8C9M2-2	Ccdc15	Coiled-coil domain-containing protein 15	X		0	823	5	0	0	1.00		2	0	0	2	0	0		
IPI00466468.2	Q3UHY7	Ccdc32	coiled-coil domain containing 32	X		0	179	21	0	0	1.00		2	0	0	2	0	0		
IPI00133032.5	Q9CR29	Ccdc43	Coiled-coil domain-containing protein 43	X		0	222	6	0	0	1.00		2	0	0	2	0	0		
IPI00170090.5	Q8C804	Ccdc52	Coiled-coil domain-containing protein 52	X		0	860	7	0	0	0.99		4	0	0	4	0	0		
IPI00381495.5	Ccdc6		coiled-coil domain containing 6	X		0	469	18	0	0	1.00		6	0	0	6	0	0		
IPI00468895.2	Q6NS45	Ccdc66	Coiled-coil domain-containing protein 66	X		0	935	5	0	0	1.00		3	0	0	3	0	0		
IPI00229261.5	Q3UFS4	Ccdc75	Coiled-coil domain-containing protein 75	X		0	266	9	0	0	0.98		2	0	0	2	0	0		
IPI00378506.1	Q8BYH3	Ccdc76	tRNA guanosine-2'-O-methyltransferase TRM13 homolog		X	0	481	0	0	13	0.99		0	0	3	0	0	3		
IPI00844630.1	Q6VGS5-2	Ccdc88c	Protein Daple		X	1	2016	0	1	0	0.92		0	2	0	0	2	0		
IPI00123958.2	Q923A2	Ccdc99	Protein Spindly	X		0	608	6	0	0	0.96		2	0	0	2	0	0		
IPI00111207.1	P24860	Ccnb1	G2/mitotic-specific cyclin-B1		X	2	430	0	0	11	1.00		0	0	3	0	0	3		
IPI00752728.2	Q3UUW5	Ccnh	Putative uncharacterized protein	X		1	327	7	0	0	1.00		3	0	0	2	0	0		
IPI00320217.9	P80314	Cct2	T-complex protein 1 subunit beta	X	X	X	1	535	6	58	48	0.94	1.00	1.00	2	24	18	2	22	18
IPI00116283.1	P80318	Cct3	T-complex protein 1 subunit gamma	X	X	X	1	545	5	44	40	0.99	1.00	1.00	2	21	17	2	20	17
IPI00116277.3	P80315	Cct4	T-complex protein 1 subunit delta		X	X	1	539	0	51	37	1.00	1.00	0	22	17	0	21	16	
IPI00116279.3	P80316	Cct5	T-complex protein 1 subunit epsilon	X	X	X	1	541	14	34	42	1.00	1.00	1.00	4	11	14	4	11	14
IPI00116281.3	P80317	Cct6a	T-complex protein 1 subunit zeta	X	X	X	2	531	15	38	39	1.00	1.00	1.00	5	16	16	5	16	16
IPI00331174.5	P80313	Cct7	T-complex protein 1 subunit eta		X	X	1	544	0	28	38	1.00	1.00	0	12	14	0	12	14	
IPI00469268.5	P42932	Cct8	T-complex protein 1 subunit theta		X	X	1	548	0	51	45	1.00	1.00	0	25	21	0	25	20	
IPI00268688.3	Q9JLQ0	Cd2ap	CD2-associated protein	X		0	637	4	0	0	1.00		2	0	0	2	0	0		
IPI00109203.3	Q9CWK3	Cd2bp2	CD2 antigen cytoplasmic tail-binding protein 2	X		0	342	6	0	0	1.00		2	0	0	2	0	0		
IPI00169700.4	Q76KJ5	Cd3eap	DNA-directed RNA polymerase I subunit RPA34	X	X	0	399	15	0	15	1.00	1.00	4	0	3	4	0	3		
IPI00114491.1	P11440	Cdc2a	Cell division control protein 2 homolog	X	X	X	0	297	28	11	14	1.00	1.00	1.00	7	2	3	6	2	3
IPI00117087.1	Q61081	Cdc37	Hsp90 co-chaperone Cdc37	X		X	0	379	18	0	13	1.00	1.00	5	0	2	5	0	2	
IPI00113849.1	P60766-2	Cdc42	Isoform 2 of Cell division control protein 42 homolog		X	1DE	0	191	0	12	0	1.00		0	2	0	0	2	0	
IPI00124906.1	Q9JM96	Cdc42ep4	Cdc42 effector protein 4	X		0	349	24	0	0	1.00		6	0	0	5	0	0		
IPI00284444.5	Q6A068	Cdc5l	Cell division cycle 5-related protein	X		X	0	802	42	0	12	1.00	1.00	29	0	8	25	0	8	
IPI00170345.1	Q8JZM7	Cdc73	Parafibromin	X		X	0	531	19	0	7	1.00	1.00	9	0	3	8	0	3	
IPI00228728.5	Q14B71	Cdca2	Cell division cycle-associated protein 2	X		0	982	3	0	0	0.99		2	0	0	2	0	0		
IPI00318626.1	P09803	Cdh1	Cadherin-1		X	1	884	0	4	0	1.00		0	2	0	0	2	0		
IPI00468999.4	Q99L43	Cds2	Phosphatidate cytidyltransferase 2		X	8	444	0	8	0	1.00		0	2	0	0	2	0		
IPI00227808.3	Q4VAA2	Cdv3	Protein CDV3	X		X	2DL	281	13	0	19	1.00	1.00	3	0	3	3	0	3	
IPI00132346.2	Q78Y72	Ceacam14	CEA-related cell adhesion molecule 14	X		0	263	19	0	0	0.96		2	0	0	2	0	0		
IPI00356898.4	Q569L8	Cenpj	Centromere protein J	X		0	1344	1	0	0	0.01		1	0	0	1	0	0		
IPI00225036.3	Q3TJM4	Cenpt	Centromere protein T	X		0	515	9	0	0	1.00		2	0	0	2	0	0		
IPI00466518.2	Q8BT07	Cep55	Centrosomal protein of 55 kDa	X		0	462	9	0	0	0.98		2	0	0	2	0	0		

IPI00128741.1	Q9R1K9	Cetn2	Centrin-2		X					0	172	44	0	0	1.00		8	0	0	5	0	0	
IPI00114065.1	P04186	Cfb	Complement factor B		X					0	761	4	0	0	1.00		2	0	0	2	0	0	
IPI00890117.1	P18760	Cfl1	Cofilin-1		X	X	X			0	166	60	58	48	1.00	1.00	1.00	14	12	7	12	12	7
IPI00266188.6	P45591	Cfl2	Cofilin-2		X					0	166	37	0	0	1.00		7	0	0	5	0	0	
IPI00133562.1	Q9CRB9	Chchd3	Coiled-coil-helix-coiled-coil-helix domain-containing protein 3, mitochondrial			X				0	227	0	8	0	1.00		0	2	0	0	2	0	
IPI00107999.1	P40201	Chd1	Chromodomain-helicase-DNA-binding protein 1			X				0	1711	0	1	0	1.00		0	2	0	0	2	0	
IPI00857771.1	Q6PDQ2	Chd4	Chromodomain-helicase-DNA-binding protein 4		X	X	X			2	1922	7	14	5	1.00	1.00	1.00	8	19	4	8	19	4
IPI00345676.5	A2AJK6	Chd7	Chromodomain-helicase-DNA-binding protein 7			X				4	2986	0	1	0	0.98		0	2	0	0	2	0	
IPI00119020.1	Q9DB34	Chmp2a	Charged multivesicular body protein 2a		X					0	222	9	0	0	1.00		2	0	0	2	0	0	
IPI00134017.1	Q9D1P4	Chordc1	Cysteine and histidine-rich domain-containing protein 1			X				0	331	0	10	0	1.00		0	2	0	0	2	0	
IPI00187301.1	Q8WTY4	Ciapin1	Anamorsin		X	X				0	309	0	17	14	1.00	1.00	0	3	3	0	3	3	
IPI00128346.1	Q91WS0	Cisd1	CDGSH iron sulfur domain-containing protein 1			X				1	108	0	20	0	1.00		0	2	0	0	2	0	
IPI00470092.2	Q3V1H1	Ckap2	Cytoskeleton-associated protein 2				X			0	664	0	0	5	1.00	1.00	0	0	2	0	0	2	
IPI00223047.2	Q8BMK4	Ckap4	Cytoskeleton-associated protein 4		X	X				1	575	0	12	7	1.00	0.99	0	4	2	0	4	2	
IPI00337930.4	A2AGT5	Ckap5	Cytoskeleton-associated protein 5			X	X			3	2032	0	5	3	1.00	0.98	0	7	2	0	7	2	
IPI00136703.1	Q04447	Ckb	Creatine kinase B-type		X	X	X			0	381	26	48	37	1.00	1.00	1.00	7	11	10	6	11	10
IPI00415523.1	Q9ET38	Cldn19	Claudin-19				X			3	224	0	0	25		0.99	0	0	3	0	0	2	
IPI00130344.3	Q9Z1Q5	Clic1	Chloride intracellular channel protein 1				X			1	241	0	0	18		1.00	0	0	3	0	0	3	
IPI00135977.3	Q9QYB1	Clic4	Chloride intracellular channel protein 4			X				1	253	0	9	0	1.00		0	2	0	0	2	0	
IPI00119808.1	Q9JHS4	Clpx	ATP-dependent Clp protease ATP-binding subunit clpX-like, mitochondrial		X					0	634	4	0	0	1.00		2	0	0	2	0	0	
IPI00648173.1	Q5SXR6	Cltc	Clathrin, heavy polypeptide			X	X			1	1679	0	55	17	1.00	1.00	0	75	19	0	70	19	
IPI00330767.1	P53996	Cnbp	Cellular nucleic acid-binding protein				X			0	178	0	0	20		1.00	0	0	3	0	0	3	
IPI00315879.1	Q9D1A2	Cndp2	Cytosolic non-specific dipeptidase		X	X				0	475	11	0	15	1.00	1.00	4	0	4	3	0	4	
IPI00116649.1	Q08093	Cnn2	Calponin-2		X					0	305	14	0	0	1.00		3	0	0	3	0	0	
IPI00119111.2	Q9DAW9	Cnn3	Calponin-3		X	X	X			0	330	19	7	18	1.00	1.00	1.00	8	2	4	4	2	4
IPI00880243.1	Q6ZQ08-4	Cnot1	CCR4-NOT transcription complex subunit 1			X				9	2376	0	4	0	1.00		0	9	0	0	9	0	
IPI00221683.3	Q8BH15	Cnot10	CCR4-NOT transcription complex subunit 10		X	X				2	744	1	3	0	0.00	0.97	1	2	0	1	2	0	
IPI00410930.3	Q8BT14-3	Cnot4	CCR4-NOT transcription complex subunit 4		X					0	713	11	0	0	1.00		4	0	0	4	0	0	
IPI00319602.3	P16330	Cnp	2',3'-cyclic-nucleotide 3'-phosphodiesterase				X			0	420	0	0	5		0.99	0	0	2	0	0	2	
IPI00135512.1	Q9QXT0	Cnpy2	Protein canopy homolog 2		X					0	182	15	0	0	1.00		2	0	0	2	0	0	
IPI00875961.1	Q8BQ47	Cnpy4	Protein canopy homolog 4		X					0	245	21	0	0	1.00		6	0	0	6	0	0	
IPI00551146.5	Q8CB62	Cntrob	Isoform 1 of Centrobilin		X			2DLC		0	887	5	0	0	1.00		3	0	0	3	0	0	
IPI00330247.4	Q5NBX1	Cobl	Protein cordon-bleu		X					0	1337	12	0	0	1.00		11	0	0	10	0	0	
IPI00762331.2	Q3UMF0	Cobl1	Cordon-bleu protein-like 1		X					0	1273	3	0	0	0.99		2	0	0	2	0	0	
IPI00129529.2	Q9Z160	Cog1	Conserved oligomeric Golgi complex subunit 1				X			1	980	0	0	5		0.93	0	0	3	0	0	3	
IPI00626353.5	Q9QZR9	Col4a4	Isoform 1 of Collagen alpha-4(IV) chain				X	UF		1	1682	0	0	6		0.93	0	0	6	0	0	5	
IPI00229834.3	Q8CIE6	Copa	Coatamer subunit alpha		X	X	X			1	1224	9	9	5	1.00	1.00	1.00	9	7	5	8	7	5
IPI00120503.1	Q9JIF7	Copb1	Coatamer subunit beta			X				4	953	0	11	0	1.00		0	9	0	0	9	0	
IPI00115097.1	O55029	Copb2	Coatamer subunit beta'			X	X			0	905	0	12	4	1.00	1.00	0	7	3	0	7	3	
IPI00223437.4	Q8BP96	Copg	Putative uncharacterized protein		X	X				0	878	0	8	9	1.00	1.00	0	5	6	0	5	6	
IPI00316359.1	Q9QXK3	Copg2	Coatamer subunit gamma-2			X				0	871	0	4	0	0.99		0	2	0	0	2	0	

IPI00131873.1	Q88545	Cops6	COP9 signalosome complex subunit 6			X			1	324	0	0	6		1.00	0	0	2	0	0	2		
IPI00124820.2	Q9WUM4	Coro1c	Coronin-1C			X	X		1	474	0	10	16		1.00	1.00	0	4	6	0	4	6	
IPI00132575.3	Q9CQI6	Cotl1	Coactosin-like protein			X			0	142	0	20	0		1.00	0	2	0	0	0	2	0	
IPI00131176.1	P00405	COX2	Cytochrome c oxidase subunit 2			X			2	227	0	23	0		1.00	0	6	0	0	0	4	0	
IPI00117978.1	P19783	Cox4i1	Cytochrome c oxidase subunit 4 isoform 1, mitochondrial			X			1	169	0	36	0		1.00	0	6	0	0	0	5	0	
IPI00120719.4	P12787	Cox5a	Cytochrome c oxidase subunit 5A, mitochondrial			X	X		0	146	0	42	17		1.00	1.00	0	7	3	0	6	3	
IPI00121443.1	Q9DCW5	Cox6a1	Cytochrome c oxidase polypeptide VIa			X			1	112	0	61	0		1.00	0	4	0	0	0	4	0	
IPI00225390.5	P56391	Cox6b1	Cytochrome c oxidase subunit 6B1			X			0	86	0	63	0		1.00	0	6	0	0	0	6	0	
IPI00114377.1	P48771	Cox7a2	Cytochrome c oxidase polypeptide 7A2, mitochondrial				X		0	83	0	28	0		1.00	0	3	0	0	0	2	0	
IPI00605187.4	Q61147	Cp	Ceruloplasmin			X			0	1086	3	0	0		1.00		4	0	0	2	0	0	
IPI00421085.1	Q6NVF9	Cpsf6	Cleavage and polyadenylation specificity factor subunit 6				X		0	551	0	0	9			1.00	0	0	3	0	0	3	
IPI00130708.1	O35427	Crpc	DNA-directed RNA polymerase III subunit RPC9			X			0	148	22	0	0		1.00		3	0	0	2	0	0	
IPI00119924.1	Q01147	Creb1	Cyclic AMP-responsive element-binding protein 1			X			0	341	13	0	0		1.00		2	0	0	2	0	0	
IPI00111286.1	Q9CYA0	Crel2	Cysteine-rich with EGF-like domain protein 2			X			0	350	15	0	0		1.00		2	0	0	2	0	0	
IPI00121319.1	Q9DCT8	Crip2	Cysteine-rich protein 2			X			0	208	26	0	0		1.00		2	0	0	2	0	0	
IPI00307991.1	Q64010	Crk	Isoform Crk-II of Proto-oncogene C-crk			X		2DLC	0	304	28	0	0		1.00		7	0	0	7	0	0	
IPI00113362.2	P47941	Crkl	Crk-like protein			X			0	303	33	0	0		1.00		8	0	0	8	0	0	
IPI00338211.4	Q9Z2L7	Crif3	Cytokine receptor-like factor 3				X		0	442	0	0	13			1.00	0	0	2	0	0	2	
IPI00132376.3	P63154	Crnk1	Crooked neck-like protein 1			X			0	690	14	0	0		1.00		8	0	0	8	0	0	
IPI00113141.1	Q9CZU6	Cs	Citrate synthase, mitochondrial				X	X	1	464	0	12	13		1.00	1.00	0	5	4	0	5	3	
IPI00330591.1	Q9JKB3	Csda	Isoform 1 of DNA-binding protein A			X	X	X	UF	361	25	13	14		1.00	1.00	6	3	5	6	3	5	
IPI00338717.3	Q80TP8	Csde1	MKIAA0885 protein (Fragment)			X		X	0	822	7	0	6		1.00	0.99	5	0	4	5	0	4	
IPI00112414.1	Q9ERK4	Cse1l	Exportin-2				X	X	5	971	0	26	25		1.00	1.00	0	15	18	0	15	18	
IPI00330729.4	Q8BK63	Csnk1a1	Casein kinase I			X			0	337	7	0	0		0.97		2	0	0	2	0	0	
IPI00120162.1	Q60737	Csnk2a1	Casein kinase II subunit alpha			X	X	X	0	391	19	4	7		1.00	1.00	1.00	5	2	2	5	2	2
IPI00118795.1	O54833	Csnk2a2	Casein kinase II subunit alpha'			X			0	350	31	0	0		1.00		8	0	0	8	0	0	
IPI00357493.6	B2RX88	Cspp1	centrosome and spindle pole associated protein 1			X			0	1197	11	0	0		1.00		8	0	0	8	0	0	
IPI00123891.3	P97315	Csrp1	Cysteine and glycine-rich protein 1				X		0	193	0	0	17			1.00	0	0	2	0	0	2	
IPI00125931.1	Q62426	Cstb	Cystatin-B				X		0	98	0	0	33			1.00	0	0	2	0	0	2	
IPI00116747.1	Q99LC2	Cstf1	Cleavage stimulation factor 50 kDa subunit			X			0	431	18	0	0		1.00		4	0	0	4	0	0	
IPI00467932.4	Q8C7E9	Cstf2t	Cleavage stimulation factor 64 kDa subunit, tau variant			X			0	632	19	0	0		1.00		6	0	0	5	0	0	
IPI00116929.1	Q99LI7	Cstf3	Cleavage stimulation factor 77 kDa subunit				X	X	0	717	0	5	6		1.00	1.00	0	2	2	0	2	2	
IPI00856974.1	P56546-2	Ctbp2	C-terminal-binding protein 2			X	X	X	1	988	3	10	4		1.00	1.00	1.00	2	6	3	2	6	3
IPI00112963.1	P26231	Ctnna1	Catenin alpha-1				X	X	1	906	0	25	18		1.00	1.00	0	15	9	0	14	9	
IPI00119870.2	Q61301	Ctnna2	Catenin alpha-2				X		1	953	0	0	4			0.94	0	0	3	0	0	3	
IPI00125899.1	Q02248	Ctnnb1	Catenin beta-1				X	X	1	781	0	21	12		1.00	1.00	0	11	5	0	11	5	
IPI00752108.1	P30999	Ctnnd1	Catenin delta-1			X	X	X	0	967	15	11	4		1.00	1.00	1.00	11	5	3	9	5	3
IPI00111959.2	P70698	Ctps	CTP synthase 1			X	X	X	1	591	5	7	10		0.99	1.00	1.00	2	3	5	2	3	5
IPI00624988.4	Q3UGC2	Cttn	Cortactin			X			0	546	5	0	0		1.00		2	0	0	2	0	0	
IPI00453812.3	Q99LJ0	Ctnbp2nl	CTTNBP2 N-terminal-like protein			X			0	638	7	0	0		1.00		2	0	0	2	0	0	
IPI00124047.1	Q9WTX6	Cul1	Cullin-1				X		0	776	0	2	0			1.00	0	0	2	0	0	2	0
IPI00467383.2	Q9JLV5	Cul3	Cullin-3			X			0	768	4	0	0		0.96		2	0	0	2	0	0	
IPI00224689.3	A2A432	Cul4b	cullin 4B				X	X	2	970	0	7	7			1.00	1.00	0	5	5	0	5	5
IPI00230113.5	P56395	Cyb5	Cytochrome b5			X			0	134	0	19	0		0.99		0	2	0	0	2	0	

IPI00110885.2	B0QZG1	Cyb5r3	Putative uncharacterized protein		X	X		1	313	0	6	12		1.00	1.00	0	2	2	0	2	2
IPI00116850.3	Q99LF4	D10Wsu52e	UPF0027 protein C22orf28 homolog	X		X		0	505	32	0	10	1.00		1.00	11	0	3	10	0	3
IPI00222675.3	Q8BK59	D19Bwg1357e	D19Bwg1357e protein	X	X			0	648	15	6	0	1.00	1.00		7	3	0	7	3	0
IPI00109313.1	Q9CWN7	D1Bwg0212e	Uncharacterized protein C2orf29 homolog		X			1	505	0	8	0		1.00		0	3	0	0	2	0
IPI00468516.3	Q6PGL7	D6Wsu116e	Isoform 1 of Protein FAM21	X			2DLC	0	1334	13	0	0	1.00			10	0	0	10	0	0
IPI00308852.4	P98078	Dab2	Disabled homolog 2	X				0	766	16	0	0	1.00			7	0	0	7	0	0
IPI00109082.3	P61804	Dad1	Dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit DAD1		X			1	113	0	27	0		1.00		0	3	0	0	3	0
IPI00222457.2	Q3U987	Dars	Isoform 1 of aspartyl-tRNA synthetase	X	X	X	2DLC, 1DE, UF	0	501	9	20	10	1.00	1.00	1.00	3	8	5	3	8	5
IPI00831695.1	Q3UGB5	Dazap1	DAZ associated protein 1	X				0	406	6	0	0	0.99			2	0	0	2	0	0
IPI00222430.5	Q4VWZ5	Dbi	Diazepam binding inhibitor	X		X		0	135	19	0	13	0.99		0.99	3	0	2	3	0	2
IPI00378015.1	Q62418	Dbnl	Drebrin-like protein	X				0	436	17	0	0	1.00			5	0	0	5	0	0
IPI00890234.1	Q3TMF5	Dbt	dihydrolipoamide branched chain transacylase E2			X		2	482	0	0	9		1.00		0	0	2	0	0	2
IPI00129701.6	Q6PAC3	Dcaf13	WD repeat and SOF domain-containing protein 1	X				0	445	7	0	0	1.00			3	0	0	2	0	0
IPI00886236.1	Q8BHC4	Dckad	Dephospho-CoA kinase domain-containing protein		X	X		2	231	0	34	17		1.00	1.00	0	9	4	0	8	4
IPI00331692.1	Q8QZV3	Dci	dodecenoyl-Coenzyme A delta isomerase precursor			X		1	289	0	0	8		1.00		0	0	2	0	0	2
IPI00459280.2	Q9DAR7	Dcps	Scavenger mRNA-decapping enzyme DcpS	X				0	338	20	0	0	1.00			4	0	0	4	0	0
IPI00856500.2	O08788	Dctn1	Dynactin subunit 1			X		2	1239	0	0	7		1.00		0	0	4	0	0	4
IPI00116112.3	Q99KJ8	Dctn2	Dynactin subunit 2	X		X		0	402	33	0	8	1.00		1.00	12	0	2	10	0	2
IPI00109482.3	Q9CWS0	Ddah1	N(G),N(G)-dimethylarginine dimethylaminohydrolase 1	X				0	285	18	0	0	1.00			4	0	0	4	0	0
IPI00316740.4	Q3U1J4	Ddb1	DNA damage-binding protein 1		X	X		2	1140	0	15	4		1.00	1.00	0	13	5	0	13	5
IPI00410819.3	Q8C4P7	Ddost	Putative uncharacterized protein		X	X		1	441	0	14	8		1.00	1.00	0	4	3	0	4	3
IPI00230034.5	O35215	Ddt	D-dopachrome decarboxylase		X	X		0	118	0	49	36		1.00	1.00	0	4	4	0	4	4
IPI00127172.3	Q91VR5	Ddx1	ATP-dependent RNA helicase DDX1	X	X	X		0	740	5	27	7	0.99	1.00	1.00	2	14	4	2	14	4
IPI00896604.1	Q80Y44	Ddx10	Probable ATP-dependent RNA helicase DDX10	X				0	875	8	0	0	1.00			5	0	0	5	0	0
IPI00653307.1	Q3U741	Ddx17	Isoform 1 of DEAD box polypeptide 17	X	X	X	2DLC, 1DE, UF	0	652	7	17	13	1.00	0.99	0.93	4	10	7	4	10	7
IPI00459381.2	Q8K363	Ddx18	ATP-dependent RNA helicase DDX18	X	X	X		1	660	27	23	15	1.00	1.00	1.00	14	10	6	12	10	6
IPI00227749.1	Q8BZY3	Ddx19b	Putative uncharacterized protein	X				1	494	7	0	0	1.00			2	0	0	2	0	0
IPI00652987.3	Q3TVJ3	Ddx21	DEAD (Asp-Glu-Ala-Asp) box polypeptide 21	X	X	X		0	851	27	38	21	1.00	1.00	1.00	17	28	15	16	28	15
IPI00123878.4	Q8VDW0	Ddx39	Isoform 1 of ATP-dependent RNA helicase DDX39	X	X	X	2DLC, 1DE, UF	0	427	15	31	31	1.00	1.00	1.00	5	10	11	5	10	11
IPI00230035.7	Q62167	Ddx3x	ATP-dependent RNA helicase DDX3X	X	X	X		0	662	18	36	31	1.00	1.00	1.00	9	20	17	9	20	17
IPI00329839.7	Q810A7	Ddx42	Isoform 1 of ATP-dependent RNA helicase DDX42	X		X	2DLC	0	929	8	0	9	1.00		0.92	5	0	4	5	0	4
IPI00468896.7	Q569Z5	Ddx46	Probable ATP-dependent RNA helicase DDX46	X	X			0	1032	14	2	0	1.00	0.99		11	2	0	11	2	0
IPI00187240.1	Q9CWX9	Ddx47	Probable ATP-dependent RNA helicase DDX47		X			1	455	0	6	0		1.00		0	2	0	0	2	0
IPI00648763.1	B1ARB9	Ddx5	DEAD (Asp-Glu-Ala-Asp) box polypeptide 5	X	X	X		0	183	35	40	51	1.00	1.00	1.00	3	5	6	3	5	6
IPI00420363.2	Q61656	Ddx5	Probable ATP-dependent RNA helicase DDX5	X	X	X		0	614	14	35	23	1.00	1.00	1.00	7	18	13	7	18	13
IPI00117771.1	Q99MJ9	Ddx50	ATP-dependent RNA helicase DDX50	X				0	734	5	0	0	1.00			2	0	0	2	0	0
IPI00336965.1	Q8K301	Ddx52	Probable ATP-dependent RNA helicase DDX52	X				1	598	11	0	0	1.00			3	0	0	3	0	0

IPI00109932.1	P54823	Ddx6	Probable ATP-dependent RNA helicase DDX6																					
IPI00227720.3	Q7TNV0	Dek	Protein DEK			X	X			0	483	0	12	13		1.00	1.00	0	4	4	0	4	4	
IPI00230263.4	Q3UFM6	Dgcr14	DiGeorge syndrome critical region protein 14					X		0	480	16	0	0	1.00			5	0	0	5	0	0	
IPI00230042.5	P00375	Dhfr	Dihydrofolate reductase					X		0	187	0	14	0		1.00		0	2	0	0	2	0	
IPI00756386.1	A2ATU0	Dhtkd1	Probable 2-oxoglutarate dehydrogenase E1 component DHKTD1, mitochondrial					X		0	921	0	5	0		1.00		0	2	0	0	2	0	
IPI00128818.2	Q35286	Dhx15	Putative pre-mRNA-splicing factor ATP-dependent RNA helicase DHX15			X	X	X		0	795	10	21	15	1.00	1.00	1.00	8	12	9	7	12	8	
IPI00410936.1	Q6PGC1	Dhx29	ATP-dependent RNA helicase Dhx29					X	X	3	1365	0	3	4		1.00	0.94	0	3	3	0	3	3	
IPI00351266.2	Q8VHK9	Dhx36	Probable ATP-dependent RNA helicase DHX36					X		2	1001	0	2	0		0.95		0	2	0	0	2	0	
IPI00339468.4	O70133	Dhx9	Isoform 2 of ATP-dependent RNA helicase A					X	X	1DE	5	1384	0	25	17		1.00	1.00	0	28	17	0	26	16
IPI00831596.1	O08808	Diap1	Protein diaphanous homolog 1					X		0	1264	0	2	0		1.00		0	2	0	0	2	0	
IPI00227881.4	Q8R418	Dicer1	Endoribonuclease Dicer					X		1	1906	0	4	0		1.00		0	7	0	0	7	0	
IPI00453851.4	Q8C9B9	Dido1	Isoform 1 of Death-inducer obliterator 1			X			2DLC	0	2256	6	0	0	1.00			7	0	0	7	0	0	
IPI00132415.1	Q9D0D4	Dimt1	Probable dimethyladenosine transferase						X	1	313	0	0	13			0.99	0	0	3	0	0	3	
IPI00407764.6	Q9CSH3	Dis3	Exosome complex exonuclease RRP44			X				0	958	3	0	0	1.00			2	0	0	2	0	0	
IPI00113635.7	Q9ESX5	Dkc1	H/ACA ribonucleoprotein complex subunit 4					X		2	509	0	0	20			1.00	0	0	6	0	0	6	
IPI00153660.4	Q8BMF4	Dlat	Dihydrolipoyllysine-residue acetyltransferase component of pyruvate dehydrogenase complex, mitochondrial					X	X	2	642	0	13	5		1.00	1.00	0	5	2	0	5	2	
IPI00331564.2	Q3TIE8	Dld	Dihydrolipoyl dehydrogenase					X	X	2	510	0	7	6		1.00	1.00	0	2	2	0	2	2	
IPI00310862.6	Q8K4R9	Dlgap5	Isoform 1 or 2 of Disks large-associated protein 5					X		2DLC	0	808	6	0	0	1.00		3	0	0	3	0	0	
IPI00317722.3	Q9JI44	Dmap1	Isoform 1 of DNA methyltransferase 1-associated protein 1			X			2DLC	0	468	11	0	0	0.99			2	0	0	2	0	0	
IPI00828253.1	A2A9Z0	Dmd	dystrophin, muscular dystrophy						X	X	1	3678	0	1	3		0.96	0.99	0	5	6	0	5	6
IPI00674554.2	Q6PNC0	Dmnl1	Dmx-like 1			X				3	3025	1	0	0	0.99			2	0	0	2	0	0	
IPI00273742.3	Q8R584	Dnahc1	Putative uncharacterized protein						X	10	4308	0	0	3			0.96	0	0	6	0	0	6	
IPI00849953.1	O08825	Dnahc10	dynein, axonemal, heavy chain 10						X	6	4591	0	0	2			0.99	0	0	6	0	0	6	
IPI00116310.7	P0C6F1	Dnahc2	dynein, axonemal, heavy chain 2						X	11	4462	0	0	1			0.90	0	0	2	0	0	2	
IPI00172328.3	Q91XQ0	Dnahc8	Dynein heavy chain 8, axonemal						X	9	4731	0	0	2			1.00	0	0	6	0	0	6	
IPI00132208.1	P63037	Dnaja1	DnaJ homolog subfamily A member 1			X	X			0	397	21	15	0	1.00	1.00		5	4	0	5	4	0	
IPI00136251.1	Q9QYJ0	Dnaja2	DnaJ homolog subfamily A member 2			X	X	X		1	412	31	11	17	1.00	1.00	1.00	8	3	4	8	3	4	
IPI00136253.3	Q9QYJ3	Dnaja1	DnaJ homolog subfamily B member 1			X				0	340	12	0	0	1.00			3	0	0	3	0	0	
IPI00320241.1	Q99KV1	Dnaja11	DnaJ homolog subfamily B member 11			X				0	358	13	0	0	1.00			3	0	0	3	0	0	
IPI00666885.2	Q8CHD7	Dnaja13	MKIAA0678 protein					X		4	966	0	4	0		1.00		0	3	0	0	3	0	
IPI00128371.1	Q91WT4	Dnaja17	DnaJ homolog subfamily C member 17			X				0	303	16	0	0	1.00			3	0	0	3	0	0	
IPI00126317.1	P54103	Dnaja2	DnaJ homolog subfamily C member 2			X	X	X		0	621	13	5	5	1.00	1.00	1.00	5	2	3	5	2	3	
IPI00755714.3	Q3URP7	Dnaja21	DnaJ (Hsp40) homolog, subfamily C, member 21			X				0	531	10	0	0	1.00			4	0	0	4	0	0	
IPI00331385.2	Q9QYI3	Dnaja7	DnaJ homolog subfamily C member 7					X		0	494	0	3	0		1.00		0	2	0	0	2	0	
IPI00463344.5	Q6NZB0	Dnaja8	DnaJ homolog subfamily C member 8			X				0	293	26	0	0	1.00			8	0	0	8	0	0	
IPI00556723.1	Q8K1M6	Dnm1	Dynamin-1-like protein						X	1	742	0	0	12			1.00	0	0	5	0	0	5	
IPI00131445.2	P39054	Dnm2	Dynamin-2			X				0	870	2	0	0	0.98			2	0	0	2	0	0	
IPI00469323.1	Q7TSJ0	Dnmt1	Cytosine-specific methyltransferase			X	X	X		0	1627	3	10	2	1.00	1.00	1.00	4	12	3	3	12	3	
IPI00131694.5	O88508	Dnmt3a	DNA (cytosine-5)-methyltransferase 3A			X	X			1	908	0	5	7		1.00	1.00	0	6	3	0	6	3	
IPI00757806.1	Q3KR45	Dnmt3b	DNA methyltransferase 3B			X				0	860	0	7	0		1.00		0	4	0	0	4	0	

IPI00109459.1	Q9CWR8	Dnmt3l	DNA (cytosine-5)-methyltransferase 3-like		X			1	421	0	8	0	1.00	0	3	0	0	3	0		
IPI00331394.3	Q3TVK3	Dnpep	aspartyl aminopeptidase			X		0	475	0	0	15	1.00	0	0	3	0	0	3		
IPI00222462.4	Q8VDR9	Dock6	dedicator of cytokinesis 6		X			6	2111	1	0	0	0.96	2	0	0	2	0	0		
IPI00882020.1	Q61103	Dpf2	Zinc finger protein ubi-d4 (Requiem)		X			0	405	28	0	0	1.00	8	0	0	8	0	0		
IPI00116134.1	Q99KK7	Dpp3	Dipeptidyl-peptidase 3			X		1	738	0	8	0	1.00	0	3	0	0	3	0		
IPI00173116.2	Q9CQS7	Dppa5a	Developmental pluripotency-associated protein 5A		X	X		0	118	46	33	0	1.00	1.00	5	2	0	3	2	0	
IPI00117168.3	Q99LT0	Dpy30	Protein dpy-30 homolog		X	X	X	0	99	36	36	45	1.00	1.00	1.00	2	2	3	2	2	3
IPI00263313.1	P32233	Drg1	Developmentally-regulated GTP-binding protein 1		X	X	X	1	367	18	7	15	1.00	1.00	1.00	5	2	3	5	2	3
IPI00134820.1	Q9QXB9	Drg2	Developmentally-regulated GTP-binding protein 2		X		X	0	364	9	0	9	0.99	0.99	2	0	2	2	0	2	
IPI00553419.3		Dsp	desmoplakin		X		X	0	2883	8	0	2	1.00	0.99	16	0	4	15	0	4	
IPI00230692.1	Q91ZU6-4	Dst	Bullous pemphigoid antigen 1		X	X	X	3	7402	1	1	1	0.92	0.99	0.92	3	3	6	3	3	6
IPI00127942.4	Q9ROP5	Dstn	Destrin		X	X	X	0	165	44	56	30	1.00	1.00	1.00	8	10	4	7	9	4
IPI00896629.1	P97930	Dtymk	Thymidylate kinase		X	X		0	227	7	15	0	0.97	1.00	2	3	0	2	3	0	
IPI00129184.3	Q91X11	Dus3l	Isoform 1 of tRNA-dihydrouridine synthase 3-like		X		2DLC	1	637	10	0	0	0.99		3	0	0	3	0	0	
IPI00380332.4	Q7TNL7	Dusp9	Dual specificity phosphatase 9			X		0	452	0	0	11		0.93	0	0	2	0	0	2	
IPI00187434.1	Q8VCG1	Dut	Isoform 1 of Deoxyuridine triphosphatase		X	X	1DE	0	200	32	28	0	1.00	1.00	4	5	0	4	5	0	
IPI00828867.2	A2AX52	Dvwa	Collagen alpha-4(VI) chain			X		3	2309	0	2	0	0.97		0	2	0	0	2	0	
IPI00119876.1	Q9JHU4	Dync1h1	Cytoplasmic dynein 1 heavy chain 1		X	X		3	4644	0	13	5	1.00	1.00	0	47	13	0	46	13	
IPI00776018.1	A2BFF9	Dync1i2	Dynein cytoplasmic 1 intermediate chain 2		X			0	638	9	0	0	1.00		4	0	0	4	0	0	
IPI00153421.1	Q8R1Q8	Dync1li1	Cytoplasmic dynein 1 light intermediate chain 1		X			0	523	7	0	0	0.99		2	0	0	2	0	0	
IPI00132734.1	Q9D0M5	Dynll2	Dynein light chain 2, cytoplasmic			X		0	89	0	20	0	0.95		0	2	0	0	2	0	
IPI00111829.1	Q9D903	Ebna1bp2	Probable rRNA-processing protein EBP2		X		X	0	306	23	0	8	1.00	1.00	4	0	2	4	0	2	
IPI00454049.4	Q8BH95	Echs1	Enoyl-CoA hydratase, mitochondrial			X		0	290	0	19	0	1.00		0	3	0	0	3	0	
IPI00117049.1	O54693	Eda	Ectodysplasin-A			X		0	391	0	0	5		0.94	0	0	2	0	0	2	
IPI00330066.5	Q3UJB9	Edc4	Enhancer of mRNA-decapping protein 4			X	X	2	1406	0	4	4	1.00	1.00	0	4	3	0	4	3	
IPI00471325.2	Q9JMG1	Edf1	Endothelial differentiation-related factor 1		X			0	148	30	0	0	1.00		4	0	0	4	0	0	
IPI00900431.1	Q921E6-2	Eed	Isoform 2 of Polycomb protein EED				X	UF	500	0	0	5		1.00	0	0	2	0	0	2	
IPI00307837.6	P10126	Eef1a1	Elongation factor 1-alpha 1		X	X	X	1	462	58	55	51	1.00	1.00	35	23	25	26	20	22	
IPI00119667.1	P62631	Eef1a2	Elongation factor 1-alpha 2		X			1	463	33	0	0	0.96		17	0	0	14	0	0	
IPI00320208.3	O70251	Eef1b2	Elongation factor 1-beta		X	X	X	0	225	28	27	46	1.00	1.00	1.00	5	3	9	4	3	9
IPI00620302.3	P57776-2	Eef1d	Elongation factor 1-delta		X	X	X	0	257	25	0	0	1.00		6	0	0	6	0	0	
IPI00133928.1	Q9D1M4	Eef1e1	Eukaryotic translation elongation factor 1 epsilon-1		X	X	X	0	174	21	12	32	0.90	1.00	3	2	4	2	2	4	
IPI00318841.4	Q9D8N0	Eef1g	Elongation factor 1-gamma		X	X	X	0	437	0	40	35		1.00	1.00	0	18	15	0	18	15
IPI00466069.3	P58252	Eef2	Elongation factor 2		X	X	X	0	858	9	56	54	0.97	1.00	1.00	4	41	38	4	38	37
IPI00226872.1	Q8C845	Efhf2	Putative uncharacterized protein		X			0	240	15	0	0	1.00		3	0	0	3	0	0	
IPI00649950.3	A2AH85	Eftud2	Elongation factor Tu GTP binding domain containing 2			X	X	1	972	0	13	18		1.00	1.00	0	10	12	0	10	12
IPI00845795.1	Q69ZW3	Ehbp1	EH domain-binding protein 1		X			0	1231	1	0	0	1.00		2	0	0	2	0	0	
IPI00126083.3	Q9VWK4	Ehd1	EH domain-containing protein 1				X	0	534	0	0	9		1.00	0	0	4	0	0	4	
IPI00318671.2	Q1MWP8	Ehd4	EH-domain containing 4-KJR (Fragment)		X			0	544	7	0	0	1.00		3	0	0	3	0	0	
IPI00153608.3	Q60872	Eif1a	Eukaryotic translation initiation factor 1A			X		0	144	0	28	0	0.99		0	4	0	0	4	0	
IPI00308984.6	Q8BMJ3	Eif1ay	Eukaryotic translation initiation factor 1A, X-chromosomal			X		0	144	0	28	0	1.00		0	4	0	0	4	0	

IPI00318464.2	Q9CXU9	Eif1b	Eukaryotic translation initiation factor 1b	X		X		0	113	59	0	27	1.00		1.00	4	0	2	4	0	2	
IPI00119806.6	Q8BJW6	Eif2a	Isoform 1 of Eukaryotic translation initiation factor 2A			X		1DE	0	581	0	24	0	1.00		0	10	0	0	10	0	
IPI00474446.4	Q6ZWX6	Eif2s1	Eukaryotic translation initiation factor 2 subunit 1	X	X	X			0	315	26	35	21	1.00	1.00	1.00	7	8	6	5	8	6
IPI00116302.3	Q99L45	Eif2s2	Eukaryotic translation initiation factor 2 subunit 2	X		X			0	331	47	0	21	1.00		1.00	19	0	7	17	0	7
IPI00129276.1	P23116	Eif3a	p162 protein	X	X	X			0	1344	2	10	15	1.00	1.00	1.00	2	13	19	2	13	19
IPI00229859.1	Q8CIJ3	Eif3b	Eif3b protein			X	X		1	970	0	21	7		1.00	1.00	0	13	6	0	13	6
IPI00321647.2	Q8R1B4	Eif3c	Eukaryotic translation initiation factor 3 subunit C			X	X		2	911	0	11	13		1.00	1.00	0	10	9	0	10	9
IPI00762774.2	O70194	Eif3d	Eukaryotic translation initiation factor 3 subunit D			X			0	548	0	13	0		1.00		0	5	0	0	5	0
IPI00132250.1	P60229	Eif3e	Eukaryotic translation initiation factor 3 subunit E			X	X		0	445	0	14	15		1.00	1.00	0	5	6	0	5	6
IPI00120914.1	Q9DCH4	Eif3f	Eukaryotic translation initiation factor 3 subunit F			X	X		0	361	0	20	19		1.00	1.00	0	5	5	0	5	5
IPI00622371.3	Q9Z1D1	Eif3g	Eukaryotic translation initiation factor 3 subunit G	X	X	X			0	320	36	7	15	1.00	1.00	1.00	9	2	3	9	2	3
IPI00128202.1	Q91WK2	Eif3h	Eukaryotic translation initiation factor 3 subunit H			X	X		0	352	0	14	15		1.00	1.00	0	4	4	0	4	4
IPI00269613.6	Q9QZD9	Eif3i	Eukaryotic translation initiation factor 3 subunit I	X	X	X			0	325	26	14	17	1.00	1.00	1.00	6	4	3	6	4	3
IPI00120322.1	Q9DBZ5	Eif3k	Isoform 1 of Eukaryotic translation initiation factor 3 subunit K			X	X	1DE, UF	0	218	0	13	18		1.00	1.00	0	2	3	0	2	3
IPI00463573.3	Q8QZY1	Eif3l	Eukaryotic translation initiation factor 3 subunit L	X	X	X			1	564	6	23	7	1.00	1.00	1.00	2	10	4	2	10	4
IPI00115580.4	Q99JX4	Eif3m	Eukaryotic translation initiation factor 3 subunit M			X	X		1	374	0	17	15		1.00	1.00	0	3	4	0	3	4
IPI00118676.3	P60843	Eif4a1	Eukaryotic initiation factor 4A-I	X	X	X			0	406	4	57	55	0.96	1.00	1.00	1	23	18	1	20	18
IPI00409918.1	P10630-2	Eif4a2	Eukaryotic initiation factor 4A-II	X	X	X			0	408	4	30	32	0.96	0.91	0.97	1	12	12	1	12	12
IPI00221581.1	Q8BGD9	Eif4b	Eukaryotic translation initiation factor 4B	X	X	X			0	611	14	11	17	1.00	1.00	1.00	4	3	6	4	3	6
IPI00421179.1	Q6NZJ6	Eif4g1	Isoform 1 of Eukaryotic translation initiation factor 4 gamma 1			X	X	1DE	1	1600	0	9	11		1.00	1.00	0	10	12	0	10	12
IPI00126006.6	Q62448	Eif4g2	Isoform 1 of Eukaryotic translation initiation factor 4 gamma 2				X	UF	1	906	0	0	7			1.00	0	0	4	0	0	4
IPI00124742.3	Q9WUK2	Eif4h	Eukaryotic translation initiation factor 4H	X	X	X			0	248	25	17	23	1.00	1.00	1.00	4	2	3	4	2	3
IPI00108125.4	P63242	Eif5a	Eukaryotic translation initiation factor 5A-1	X	X	X			0	154	23	68	60	1.00	1.00	1.00	3	11	7	3	10	7
IPI00756424.3	Q05D44	Eif5b	Isoform 1 of Eukaryotic translation initiation factor 5B	X			X	2DLC, UF	2	1216	4	0	10	0.99		1.00	3	0	7	3	0	7
IPI00115862.1	O55135	Eif6	Eukaryotic translation initiation factor 6			X	X		0	245	0	18	19		0.98	1.00	0	2	2	0	2	2
IPI00400401.1	Q80Y81	Elac2	Zinc phosphodiesterase ELAC protein 2	X		X			0	831	4	0	9	1.00		1.00	2	0	5	2	0	5
IPI00466032.3	Q78QY3	Elavl1	ELAV (embryonic lethal, abnormal vision, Drosophila)-like 1	X	X	X			0	326	20	12	20	1.00	1.00	1.00	7	4	6	6	4	6
IPI00123165.5	Q3UKU1	Eli2	RNA polymerase II elongation factor ELL2	X					0	639	3	0	0	1.00			2	0	0	2	0	0
IPI00224682.2	Q9CZX0-2	Elp3	Elongator complex protein 3	X					1	566	15	0	0	1.00			6	0	0	6	0	0
IPI00114401.1	O08579	Emd	Emerin	X					1	259	17	0	0	1.00			3	0	0	3	0	0
IPI00127554.1	O35130	Emg1	Probable ribosome biogenesis protein NEP1				X		1	244	0	16	0		1.00		0	3	0	0	3	0
IPI00621842.6	Q03173	Enah	Enabled homolog	X			X		0	804	8	0	4	1.00		1.00	4	0	3	4	0	3

IPI00331704.7	P17183	Eno2	Gamma-enolase	X				1	434	16	0	0	1.00		3	0	0	3	0	0	
IPI00228548.6	P21550	Eno3	Beta-enolase	X	X	X		1	434	19	22	21	0.99	1.00	0.98	5	8	6	4	7	6
IPI00458003.1	Q6DYE8	Enpp3	Ectonucleotide pyrophosphatase/phosphodiesterase family member 3				X	0	874	0	0	4		1.00	0	0	3	0	0	3	
IPI00310578.3	Q9JIX0	Eny2	Enhancer of yellow 2 transcription factor homolog	X	X			0	101	25	34	0	0.98	0.99		2	3	0	2	3	0
IPI00309481.1	O70318	Epb4.1l2	Band 4.1-like protein 2	X				0	988	4	0	0	0.99		2	0	0	2	0	0	
IPI00849631.1		Epb4.1l4b	erythrocyte protein band 4.1-like 4b				X	0	838	0	0	4		0.97	0	0	2	0	0	2	
IPI00320459.2	Q8R0W0	Eppk1	Epiplakin		X	X		0	6548	0	13	5		1.00	0.98	0	8	5	0	8	5
IPI00339916.9	Q8CGC7	Eprs	Bifunctional aminoacyl-tRNA synthetase	X	X			0	1512	3	19	0	1.00	1.00		3	22	0	3	22	0
IPI00890139.1	Q3UIS9	Eps15l1	Epidermal growth factor receptor pathway substrate 15	X				0	907	15	0	0	1.00		7	0	0	7	0	0	
IPI00460558.3	Q6PH08	Erc2	ERC protein 2			X		0	957	0	0	2		0.93	0	0	2	0	0	2	
IPI00221540.1	Q8BFZ9	Erlin2	Erlin-2			X		0	340	0	0	12		0.98	0	0	3	0	0	3	
IPI00118832.1	P57759	Erp29	Endoplasmic reticulum protein ERp29	X				0	262	31	0	0	1.00		5	0	0	5	0	0	
IPI00109142.4	Q9R0P3	Esd	S-formylglutathione hydrolase			X		0	282	0	0	20		1.00	0	0	4	0	0	4	
IPI00128450.1	Q3U7R1	Esyt1	Extended synaptotagmin-1			X		3	1092	0	0	2		0.99	0	0	2	0	0	2	
IPI00312468.5	Q8BWW3	Etf1	Eukaryotic peptide chain release factor subunit 1		X	X		0	437	0	24	14		1.00	1.00	0	7	5	0	7	5
IPI00116753.4	Q99LC5	Etfa	Electron transfer flavoprotein subunit alpha, mitochondrial		X	X		1	333	0	15	28		1.00	1.00	0	4	6	0	4	6
IPI00411164.4		Etl4	enhancer trap locus 4	X				0	1997	12	0	0	1.00		15	0	0	14	0	0	
IPI00467271.2	Q8K1G2	Evc2	Limbin			X		1	1220	0	0	2		0.90	0	0	3	0	0	3	
IPI00122831.5	Q3U9D6	Exoc6	exocyst complex component 6	X				1	804	4	0	0	0.92		2	0	0	2	0	0	
IPI00468525.4	Q61188	Ezh2	Histone-lysine N-methyltransferase EZH2	X				0	746	7	0	0	1.00		4	0	0	3	0	0	
IPI00387253.3	Q8C263	F630043A04Rik	Spindle and kinetochore-associated protein 3	X				0	411	14	0	0	1.00		4	0	0	4	0	0	
IPI00230124.5	P11404	Fabp3	Fatty acid-binding protein, heart		X	X		0	133	0	17	23		1.00	1.00	0	2	3	0	2	3
IPI00108791.1	P54731	Faf1	FAS-associated factor 1		X			0	649	0	4	0		1.00	0	2	0	0	2	0	
IPI00109611.1	Q9D6U8	Fam162a	UPF0389 protein FAM162A	X	X			1	155	0	12	0		1.00	0	2	0	0	2	0	
IPI00808550.1	Q5XG69	Fam169a	UPF0611 protein FAM169A	X	X	X		0	665	9	5	4	1.00	0.96	0.98	3	2	2	3	2	2
IPI00331260.1	Q91WE2	Fam192a	NEFA-interacting nuclear protein NIP30	X				1	254	11	0	0	1.00		2	0	0	2	0	0	
IPI00122015.1	Q921M7	Fam49b	Protein FAM49B			X		1	324	0	0	8		1.00	0	0	2	0	0	2	
IPI00322922.4	Q9WV03	Fam50a	Protein FAM50A	X				0	339	17	0	0	1.00		4	0	0	4	0	0	
IPI00172255.1	Q9WTJ8	Fam50b	Protein FAM50B	X				0	334	13	0	0	0.92		3	0	0	3	0	0	
IPI00109033.3	Q9CWE0	Fam54b	Isoform 1 of Protein FAM54B	X			2DLC	0	289	10	0	0	1.00		3	0	0	3	0	0	
IPI00227516.4	Q148V8	Fam83h	Protein FAM83H	X				0	1209	5	0	0	1.00		3	0	0	3	0	0	
IPI00263874.3	Q8C0C7	Farsa	Phenylalanyl-tRNA synthetase alpha chain			X		0	508	0	0	9		1.00	0	0	2	0	0	2	
IPI00322828.1	Q9WUA2	Farsb	Phenylalanyl-tRNA synthetase beta chain		X	X		0	589	0	18	6		1.00	1.00	0	9	4	0	9	4
IPI00113223.2	P19096	Fasn	Fatty acid synthase		X	X		6	2504	0	42	16		1.00	1.00	0	74	24	0	72	24
IPI00114860.4	Q71FD7	Fblim1	Filamin-binding LIM protein 1	X		X		0	375	26	0	11	1.00		1.00	6	0	2	6	0	2
IPI00420711.1	Q6PB97	Fbxl19	F-box/LRR-repeat protein 19		X			0	674	0	0	3		0.99	0	0	2	0	0	2	
IPI00624157.2		Fcgbp	Fc fragment of IgG binding protein		X			1	2583	0	1	0		0.92	0	2	0	0	2	0	
IPI00120457.1	Q920E5	Fdps	Farnesyl pyrophosphate synthetase		X	X		2	353	0	10	9		1.00	1.00	0	3	3	0	3	3
IPI00410836.1	Q8C5X6	Fen1	Putative uncharacterized protein	X				0	411	12	0	0	1.00		3	0	0	3	0	0	
IPI00276222.1	Q8CIB5	Fermt2	Fermitin family homolog 2			X		0	680	0	0	4		0.99	0	0	2	0	0	2	
IPI00129928.2	P97807	Fh1	Fumarate hydratase, mitochondrial			X		0	507	0	0	13		1.00	0	0	5	0	0	5	
IPI00331030.3	Q8BPY9	Fignl1	Fidgetin-like protein 1	X				0	683	5	0	0	0.97		2	0	0	2	0	0	
IPI00467002.4	Q9WTJ4	Fiz1	Fit3-interacting zinc finger protein 1	X				1	500	4	0	0	1.00		2	0	0	2	0	0	
IPI00126000.1	Q62446	Fkbp3	FK506-binding protein 3	X				0	224	31	0	0	1.00		9	0	0	9	0	0	
IPI00230139.5	P30416	Fkbp4	FK506-binding protein 4	X	X	X		0	458	47	45	21	1.00	1.00	1.00	23	17	8	20	17	8
IPI00406870.3	Q2VIS4	Flg2	Filaggrin-2	X				1	2362	2	0	0	1.00		3	0	0	2	0	0	

			2DLC, 1DE,																		
IPI00131138.10	Q8BTM8	Flna	Isoform 1 of Filamin-A	X	X	X	UF	1	2647	4	37	18	1.00	1.00	1.00	6	66	34	6	66	34
IPI00663627.1	Q80X90	Flnb	Filamin-B	X	X	X		1	2602	6	30	20	1.00	1.00	1.00	9	57	31	9	57	31
IPI00664670.4	Q8VHX6	FlnC	Filamin-C		X	X		1	2737	0	2	6		1.00	1.00	0	6	12	0	6	12
IPI00124497.3	P35969	Flt1	Vascular endothelial growth factor receptor 1			X		1	1333	0	0	1		0.92	0	0	2	0	0	2	0
IPI00270737.5	Q6AXB7	Fmr1	Fragile X mental retardation syndrome 1 homolog	X	X			0	614	5	6	0	1.00	1.00		2	3	0	2	3	0
IPI00652813.1	Q3UHL6	Fn1	Putative uncharacterized protein		X			0	2361	0	6	0		1.00		0	8	0	0	8	0
IPI00876259.1	Q80TY0	Fnbp1	Formin binding protein 1	X				0	619	3	0	0	0.98		2	0	0	2	0	0	0
IPI00762582.3	Q9DBY0	Foxp4	Forkhead box protein P4	X				0	807	5	0	0	1.00		2	0	0	2	0	0	0
IPI00114365.1	P48760	Fpgs	Folypolyglutamate synthase			X		2	587	0	0	8		1.00	0	0	2	0	0	2	0
IPI00311968.1	P97376	Frg1	Protein FRG1	X				0	258	21	0	0	1.00		3	0	0	3	0	0	0
IPI00353563.4	Q61553	Fscn1	Fascin	X	X	X		0	493	15	20	11	1.00	1.00	1.00	5	8	7	5	8	7
IPI00750014.4		Fsip2	PREDICTED: similar to fibrous sheath-interacting protein 2			X		6	6483	0	0	1		0.93	0	0	4	0	0	4	0
IPI00762203.2	P29391	Ftl1	Ferritin light chain 1	X	X			0	183	59	0	17	1.00		1.00	8	0	3	7	0	3
IPI00625129.3	P49945	Ftl2	ferritin light chain 2	X	X			0	183	59	0	17	1.00		1.00	7	0	3	7	0	3
IPI00119632.3	Q9DBE9	Ftsj3	Putative rRNA methyltransferase 3	X		X		2	838	4	0	5	1.00		1.00	2	0	3	2	0	3
IPI00123292.5	Q3UUU2	Fubp1	Far upstream element-binding protein 1	X	X	X		1	700	22	16	7	1.00	1.00	1.00	11	10	4	10	10	4
IPI00379513.6	Q3TIX6	Fubp3	far upstream element (FUSE) binding protein 3	X	X	X		0	575	14	14	23	1.00	1.00	1.00	4	7	7	4	7	7
IPI00117063.1	P56959	Fus	RNA-binding protein FUS	X	X	X		0	518	15	8	9	1.00	1.00	1.00	5	2	4	5	2	4
IPI00122521.1	Q61584	Fxr1	Fragile X mental retardation syndrome-related protein 1	X	X			0	677	21	30	0	1.00	1.00		10	15	0	9	15	0
IPI00126389.2	Q6P5B5	Fxr2	Putative uncharacterized protein	X	X	X		0	674	13	15	5	1.00	1.00	0.99	5	7	3	4	7	3
IPI00130095.1	P97855	G3bp1	Ras GTPase-activating protein-binding protein 1	X	X	X		0	465	34	36	25	1.00	1.00	1.00	13	13	8	11	13	8
IPI00124245.1	P97379	G3bp2	Ras GTPase-activating protein-binding protein 2	X	X	X		0	482	8	16	10	1.00	1.00	1.00	2	5	4	2	5	4
IPI00111960.2	P70699	Gaa	Lysosomal alpha-glucosidase			X		3	953	0	0	5		1.00	0	0	2	0	0	2	0
IPI00406794.2	Q9QY0	Gab1	GRB2-associated-binding protein 1	X				0	695	6	0	0	1.00		3	0	0	3	0	0	0
IPI00265025.5	Q9JIA6	Galk1	galactokinase 1			X		1	392	0	10	0		1.00		0	3	0	0	3	0
IPI00115679.1	Q8BHN3-2	Ganab	Neutral alpha-glucosidase AB			X	X	2	966	0	7	7		1.00	1.00	0	5	6	0	5	6
IPI00110931.1	Q9CY66	Gar1	H/ACA ribonucleoprotein complex subunit 1	X				0	231	13	0	0	1.00		3	0	0	3	0	0	0
IPI00112555.3	Q9CZD3	Gars	Glycyl-tRNA synthetase	X	X	X		2	729	7	26	10	1.00	1.00	1.00	3	14	6	3	14	6
IPI00230612.3	Q3TGI3	Gart	phosphoribosylglycinamide formyltransferase	X	X	X		1	1010	2	35	30	1.00	1.00	1.00	2	22	21	2	22	21
IPI00625995.1	Q8CHY6	Gatad2a	Transcriptional repressor p66 alpha	X				0	630	14	0	0	1.00		5	0	0	5	0	0	0
IPI00128615.1	Q8VHR5	Gatad2b	Transcriptional repressor p66-beta	X				0	594	13	0	0	1.00		4	0	0	4	0	0	0
IPI00457499.5	Q8CHY6	Gcn111	GCN1 general control of amino-acid synthesis 1-like 1			X	X	9	2671	0	14	4		1.00	1.00	0	27	6	0	26	6
IPI00122565.1	Q61598	Gdi2	Rab GDP dissociation inhibitor beta	X	X	X		0	445	23	35	32	1.00	1.00	1.00	8	12	12	8	12	12
IPI00169775.6	Q6P6L6	Gemin4	Putative uncharacterized protein			X		3	1058	0	0	5		1.00	0	0	3	0	0	3	0
IPI00230283.5	Q8K0D5	Gfm1	Elongation factor G, mitochondrial			X		2	751	0	10	0		1.00		0	5	0	0	5	0
IPI00338876.3	Q8R2Q4	Gfm2	Ribosome-releasing factor 2, mitochondrial			X		0	779	0	8	0		1.00		0	3	0	0	3	0
IPI00278312.6	Q9Z2Z9	Gfpt2	Glucosamine--fructose-6-phosphate aminotransferase [isomerizing] 2			X	X	2	682	0	5	5		1.00	1.00	0	2	2	0	2	2
IPI00473912.4	Q6Y7W8	Gigyf2	Isoform 1 of PERQ amino acid-rich with GYF domain-containing protein 2	X	X		2DLC, 1DE	0	1291	15	4	0	1.00	1.00		15	3	0	13	3	0
IPI00470095.1	Q68FF6	Git1	ARF GTPase-activating protein GIT1	X				0	770	6	0	0	1.00		2	0	0	2	0	0	0
IPI00127267.4	Q91W43	Gldc	Glycine dehydrogenase [decarboxylating], mitochondrial			X	X	1	1025	0	29	8		1.00	1.00	0	19	3	0	19	3
IPI00122399.1	Q61543	Glg1	Golgi apparatus protein 1			X		1	1175	0	14	0		1.00		0	13	0	0	13	0

IPI00416279.3	Q9CYL5	Glpr2	Golgi-associated plant pathogenesis-related protein 1	X				0	154	14	0	0	1.00		2	0	0	2	0	0	
IPI00321734.7	Q9CPU0	Glo1	Lactoylglutathione lyase	X	X	X		0	184	27	29	9	1.00	1.00	1.00	5	4	2	4	4	2
IPI00110721.5	Q9CPV4	Glod4	Glyoxalase domain-containing protein 4	X				0	298	16	0	0	1.00		3	0	0	3	0	0	
IPI00315550.3	Q9CQM9	Glrx3	Glutaredoxin-3	X	X	X		0	337	13	11	7	1.00	1.00	1.00	3	3	2	3	3	2
IPI00169870.6	Q8K297	GlT5d1	Glycosyltransferase 25 family member 1 glioma tumor suppressor candidate region gene 2			X		0	617	0	4	0		0.99	0	2	0	0	2	0	
IPI00122471.5	Q8BK35	Gltsr2		X				0	484	15	0	0	1.00		5	0	0	5	0	0	
IPI00114209.1	P26443	Glud1	Glutamate dehydrogenase 1, mitochondrial	X	X	X		0	558	6	5	19	1.00	1.00	1.00	2	3	8	2	3	8
IPI00123164.2		Gm10077	similar to ribosomal protein L36a	X	X			0	106	18	16	0	0.91	1.00		4	2	0	4	2	0
IPI00469918.4	Q5CZY9	Gm10079	Rps16 protein	X	X	X		0	172	49	51	40	1.00	1.00	1.00	13	11	7	12	11	7
IPI00473762.1		Gm10117	similar to 60S ribosomal protein L9 isoform 1	X			2DLC	0	192	53	0	0	1.00		9	0	0	9	0	0	
IPI00473521.1		Gm10119	similar to ribosomal protein S3a	X	X	X		0	264	39	54	41	1.00	1.00	1.00	17	18	11	14	15	10
IPI00461456.1	P62751	Gm10132	60S ribosomal protein L23a	X	X			0	156	54	18	0	0.94	0.99		13	2	0	13	2	0
IPI00626233.3		Gm10164	similar to Rpl17 protein	X	X			0	227	26	26	0	1.00	1.00		8	6	0	6	5	0
IPI00606310.1		Gm10169	Similar to macrophage migration inhibitory factor			X		0	115	0	0	32		1.00	0	0	3	0	0	0	3
IPI00124973.1	P52293	Gm10184	Importin subunit alpha-2		X	X		3	529	0	39	44		1.00	1.00	0	13	15	0	13	15
IPI00123007.1	P62900	Gm10191	60S ribosomal protein L31	X	X	X		0	125	38	32	30	1.00	1.00	1.00	5	4	4	5	4	4
IPI00621613.1		Gm10196	similar to hCG1994130	X				0	130	26	0	0	1.00		3	0	0	2	0	0	
IPI00752289.2		Gm10290	similar to Glyceraldehyde-3-phosphate dehydrogenase (GAPDH)	X				0	333	41	0	0	1.00		10	0	0	8	0	0	
IPI00756025.1		Gm10313	similar to LOC654472 protein			X		0	333	0	0	25		0.99	0	0	7	0	0	7	
IPI00128760.1	P68037	Gm10705	Ubiquitin-conjugating enzyme E2 L3	X	X			0	154	29	46	0	1.00	1.00		3	4	0	3	4	0
IPI00122421.5	P61358	Gm11518	60S ribosomal protein L27	X	X	X		0	136	43	36	34	1.00	1.00	1.00	6	4	4	5	4	4
IPI00461292.4		Gm11531	similar to Ribosomal protein L17	X				0	159	22	0	0	1.00		3	0	0	3	0	0	
IPI00850073.1		Gm12013	similar to ribosomal protein L39			X		0	63	0	0	16		1.00	0	0	2	0	0	2	
IPI00749932.1		Gm12141	similar to Heat shock protein 1	X		X		1	497	3	0	7	0.00	0.95	1	0	3	1	0	3	
IPI00277753.1		Gm12260	similar to histone H3			X		0	136	0	0	43		1.00	0	0	6	0	0	5	
IPI00620288.1		Gm12938	similar to ribosomal protein L28	X	X	X		0	137	26	20	33	1.00	1.00	1.00	5	4	5	5	4	5
IPI00120871.1	Q9DCG9	Gm13072	TRM112-like protein	X		X		0	125	26	0	20	1.00		1.00	2	0	2	0	0	2
IPI00113655.1	P62754	Gm13654	40S ribosomal protein S6	X	X	X		0	249	26	30	30	1.00	1.00	1.00	8	6	6	7	6	6
IPI00473415.1		Gm14059	similar to 40S ribosomal protein S12	X	X	X		0	132	27	40	34	0.99	1.00	1.00	3	5	5	3	5	5
IPI00420261.5	P63158	Gm15387	High mobility group protein B1			X		0	215	0	0	13		1.00	0	0	3	0	0	3	
IPI00880213.1		Gm15427	ribosomal protein L18A family member	X	X	X		0	191	18	25	31	1.00	1.00	1.00	5	6	8	4	6	7
IPI00849927.1	Q5XJF6	Gm15451	ribosomal protein L10A	X	X	X		0	217	36	56	38	1.00	1.00	1.00	12	12	7	10	11	7
IPI00308706.4	P47962	Gm15500	60S ribosomal protein L5	X	X	X		0	297	41	48	23	1.00	1.00	1.00	22	12	6	17	10	6
IPI00224505.7	P47963	Gm15710	60S ribosomal protein L13	X	X			0	211	38	23	0	1.00	1.00		10	5	0	9	5	0
IPI00132460.1	P61255	Gm15772	60S ribosomal protein L26	X	X	X		0	145	51	39	43	1.00	1.00	1.00	12	9	7	12	9	7
IPI00755309.1	Q91VJ6	Gm16468	ribosomal protein L3	X	X	X		0	403	45	13	35	1.00	1.00	1.00	25	3	14	19	3	14
IPI00848775.1		Gm16470	similar to Glyceraldehyde-3-phosphate dehydrogenase	X				0	407	29	0	0	1.00		11	0	0	8	0	0	
IPI00263879.4	Q6ZVV7	Gm2000	60S ribosomal protein L35	X	X	X		0	123	35	15	15	1.00	0.99	1.00	5	2	3	5	2	3
IPI00851014.1		Gm2223	similar to translation initiation factor eIF-2 gamma subunit	X	X	X		1	480	10	26	18	0.99	1.00	1.00	2	8	8	2	8	8
IPI00850093.1		Gm3150	similar to G protein gamma-5 subunit			X		0	68	0	24	0		1.00		0	2	0	0	2	0
IPI00849598.1		Gm3405	similar to QM protein	X	X	X		0	214	33	19	23	1.00	1.00	1.00	8	6	5	6	5	5
IPI00469351.3		Gm4130	similar to heterogeneous nuclear ribonucleoprotein K	X	X			0	196	28	33	0	1.00	0.96		3	4	0	3	4	0
IPI00874692.1		Gm4294	similar to ribosomal protein L15	X				0	204	33	0	0	1.00		7	0	0	7	0	0	
IPI00850166.1		Gm4340	PREDICTED: similar to RNA and export factor binding protein 1-II	X				0	265	7	0	0	0.99		2	0	0	2	0	0	
IPI00849768.1		Gm4363	similar to HSPC016			X		0	64	0	31	0		0.94		0	3	0	0	3	0
IPI00272545.5		Gm4613	similar to ribosomal protein L37a		X	X		0	101	0	9	17		1.00	1.00	0	2	3	0	2	3

IPI00466153.4	Q9D1R9	Gm4705	60S ribosomal protein L34	X	X	X	0	117	15	21	15	1.00	1.00	1.00	3	4	2	3	4	2
IPI00762179.2		Gm4720	similar to ORF1	X			0	371	11	0	0	0.99			3	0	0	3	0	0
IPI00343021.3		Gm4838	hypothetical protein	X			0	145	26	0	0	1.00			5	0	0	5	0	0
IPI00890115.1		Gm4968	PREDICTED: hypothetical protein	X	X		1	303	20	17	0	0.99	0.99		7	3	0	7	3	0
IPI00606944.2		Gm4970	hypothetical protein			X	0	266	0	0	42			1.00	0	0	11	0	0	11
IPI00108337.5		Gm4986	similar to Ac2-210	X	X		0	153	7	17	0	0.00	1.00		1	2	0	1	2	0
IPI00128267.4	A2AD25	Gm4987	MCG49690	X	X		0	135	27	17	0	0.97	1.00		3	3	0	3	2	0
			similar to endothelial monocyte-activating polypeptide		X		0	224	0	10	0			1.00	0	2	0	0	2	0
IPI00676841.1	Q2YD80	Gm5081	hypothetical protein LOC328099		X	X	1	318	0	18	24			1.00	1.00	0	5	5	0	5
IPI00671398.1		Gm5121	similar to ribosomal protein S8	X			0	208	35	0	0	0.98			7	0	0	7	0	0
IPI00849245.1		Gm5218	similar to ribosomal protein		X		1	542	0	4	0			1.00	0	2	0	0	2	0
IPI00395100.1	Q7M754	Gm5409	Try10-like trypsinogen	X			0	246	20	0	0	1.00			5	0	0	4	0	0
IPI00457852.3		Gm5428	similar to ribosomal protein L6	X			0	309	35	0	0	1.00			13	0	0	13	0	0
IPI00461504.1		Gm5445	similar to hCG1782414	X	X		0	160	14	14	0	1.00	1.00		2	2	0	2	2	0
IPI00890082.1		Gm5534	hypothetical protein			X	0	160	0	0	9			0.97	0	0	2	0	0	2
IPI00621272.3	Q9D0T1	Gm5616	NHP2-like protein 1		X	X	0	128	0	39	27			1.00	1.00	0	3	3	0	3
IPI00470152.2	Q642L7	Gm6111	ribosomal protein S27a	X	X		0	156	54	37	0	1.00	1.00		11	8	0	10	8	0
IPI00875351.2	B2RY53	Gm6133	EG620155 protein	X		X	0	190	12	0	23	0.01		1.00	2	0	4	2	0	4
IPI00626312.1		Gm6136	similar to ribosomal protein L6	X	X	X	0	296	42	36	38	1.00	1.00	1.00	16	12	13	15	12	13
IPI00889220.1		Gm6251	ribosomal protein-like	X			0	133	29	0	0	1.00			4	0	0	4	0	0
IPI00622837.1		Gm6265	hypothetical protein		X		0	76	0	46	0			1.00	0	4	0	0	4	0
IPI00123176.1		Gm6316	37 kDa protein	X			0	339	29	0	0	1.00			9	0	0	8	0	0
			Probable ribosome biogenesis protein RLP24				0	163	17	0	0	1.00			3	0	0	2	0	0
IPI00116252.1	Q99L28	Gm6457		X			0	163	17	0	0	1.00			3	0	0	2	0	0
IPI00133801.3	Q9D1J3	Gm6563	SAP domain-containing ribonucleoprotein			X	0	210	0	0	28			1.00	0	0	5	0	0	5
IPI00850777.1		Gm6570	similar to ribosomal protein L30		X		0	115	0	24	0			1.00	0	2	0	0	2	0
IPI00663555.1		Gm6630	similar to ribosomal protein	X			0	151	17	0	0	1.00			4	0	0	3	0	0
IPI00674601.1		Gm6654	similar to ribosomal protein S26	X	X		0	115	31	21	0	1.00	1.00		3	2	0	3	2	0
			Peptidyl-prolyl cis-trans isomerase NIMA-interacting 4	X			0	131	40	0	0	1.00			6	0	0	3	0	0
IPI00757219.1		Gm6910	25 kDa protein	X			0	228	31	0	0	1.00			5	0	0	5	0	0
			similar to human protein homologous to DROER protein		X		0	104	0	16	0			1.00	0	2	0	0	2	0
IPI00620075.2		Gm6941			X		0	104	0	16	0			1.00	0	2	0	0	2	0
IPI00625893.3		Gm6981	36 kDa protein	X	X		0	335	16	23	0	0.09	1.00		5	4	0	4	4	0
IPI00621229.1		Gm6998	similar to ribosomal protein S8	X	X		0	208	45	46	0	1.00	1.00		10	9	0	10	9	0
			similar to Glyceraldehyde-3-phosphate dehydrogenase		X		0	182	0	25	0			0.92	0	2	0	0	2	0
IPI00666411.2		Gm7189			X		0	182	0	25	0			0.92	0	2	0	0	2	0
IPI00756253.2		Gm7206	similar to 60S ribosomal protein L9	X	X	X	0	187	21	44	0	1.00	1.00	1.00	4	3	5	4	3	5
IPI00889899.1		Gm7251	hypothetical protein		X		0	351	0	18	0			1.00	0	6	0	0	6	0
			similar to Glyceraldehyde-3-phosphate dehydrogenase				0	336	37	54	0	1.00	1.00		11	21	0	8	12	0
IPI00751677.3		Gm7293		X	X		0	336	37	54	0	1.00	1.00		11	21	0	8	12	0
IPI00626628.1	Q9CQ16	Gm7536	ribosomal protein L27a	X	X	X	0	148	26	22	28	1.00	1.00	1.00	4	3	5	4	3	5
IPI00230150.1	P62309	Gm8186	Small nuclear ribonucleoprotein G	X	X		0	76	25	37	0	0.92	1.00		2	5	0	2	5	0
IPI00330363.8	P12970	Gm8226	60S ribosomal protein L7a		X		0	266	0	36	0			1.00	0	11	0	0	11	0
IPI00880400.1	P25444	Gm8553	40S ribosomal protein S2	X	X		1	293	43	43	0	0.99	1.00		13	11	0	13	11	0
			similar to Acidic ribosomal phosphoprotein P0	X	X		1	317	11	50	0	0.02	1.00		3	10	0	3	10	0
IPI00626366.3		Gm8730		X	X		1	317	11	50	0	0.02	1.00		3	10	0	3	10	0
IPI00752723.1		Gm8842	hypothetical protein isoform 2	X			1	293	43	0	0	0.99			12	0	0	12	0	0
			similar to non-muscle myosin alkali light chain				0	210	15	0	0	1.00			3	0	0	3	0	0
IPI00848866.1		Gm8894		X			0	210	15	0	0	1.00			3	0	0	3	0	0
IPI00918622.1		Gm8994	predicted gene, EG668137	X	X	X	0	411	7	25	13	0.96	1.00	1.00	2	9	6	2	9	6
			similar to Glyceraldehyde-3-phosphate dehydrogenase	X	X	X	1	335	17	26	21	1.00	0.99	1.00	5	8	4	4	5	4
IPI00753102.2		Gm9034		X	X	X	1	335	17	26	21	1.00	0.99	1.00	5	8	4	4	5	4
			similar to Acidic ribosomal phosphoprotein P0	X		X	1	313	7	0	27	0.01		0.90	2	0	7	2	0	7
IPI00626504.2		Gm9093		X		X	1	313	7	0	27	0.01		0.90	2	0	7	2	0	7

IPI00378480.1	Q9ZQZ8	H2afy	Core histone macro-H2A.1		X	X		1	372	0	15	8	1.00	1.00	0	4	2	0	3	2	
IPI00223092.5	Q8BMS1	Hadha	Trifunctional enzyme subunit alpha, mitochondrial		X	X		1	763	0	29	10	1.00	1.00	0	15	4	0	15	4	
IPI00115607.3	Q99JY0	Hadhb	Trifunctional enzyme subunit beta, mitochondrial		X			0	475	0	4	0	1.00		0	2	0	0	2	0	
IPI00226930.2	A2ATU9	Hat1	Histone aminotransferase 1		X	X		2	423	0	16	9	1.00	1.00	0	4	3	0	4	3	
IPI00556802.1	Q69ZS7	Hbs1l	Isoform 1 of HBS1-like protein		X		2DLC	1	682	13	0	0	0.93		4	0	0	4	0	0	
IPI00828490.2	B1AUX2	Hcfc1	Host cell factor C1		X			0	2090	5	0	0	1.00		6	0	0	6	0	0	
IPI00114232.1	O09106	Hdac1	Histone deacetylase 1		X		X	0	482	17	0	4	1.00	1.00	7	0	2	6	0	2	
IPI00896654.1	B2RRP3	Hdac2	histone deacetylase 2		X			0	488	15	0	0	1.00		8	0	0	6	0	0	
IPI00137694.5	Q3SXD3	Hddc2	HD domain-containing protein 2		X			0	199	14	0	0	0.99		2	0	0	2	0	0	
IPI00313817.1	P51859	Hdgf	Hepatoma-derived growth factor		X			0	237	41	0	0	1.00		7	0	0	7	0	0	
IPI00123379.1	Q8VDJ3	Hdlbp	Vigilin		X	X		0	1268	11	8	0	1.00	1.00	9	7	0	9	7	0	
IPI00411022.1		Heatr1	BAP28 protein		X	X		10	2143	0	18	9	1.00	1.00	0	27	12	0	27	12	
IPI00399686.1	Q8BQM4	Heatr3	HEAT repeat-containing protein 3			X		2	679	0	0	9		1.00	0	0	4	0	0	4	
IPI00121431.4	Q60848	Hells	Lymphocyte-specific helicase		X	X		1	821	0	3	6	1.00	1.00	0	3	4	0	3	4	
IPI00314989.2	Q4U2R1	Herc2	Probable E3 ubiquitin-protein ligase			X		10	4836	0	0	2		0.91	0	0	7	0	0	6	
IPI00649267.4	Q3UMA3	Hgs	Putative uncharacterized protein		X			0	776	7	0	0	1.00		4	0	0	4	0	0	
IPI00108189.4	P70349	Hint1	Histidine triad nucleotide-binding protein 1		X	X	X	0	126	39	17	27	1.00	1.00	1.00	5	2	2	3	2	2
IPI00311726.3	Q9JKY5	Hip1r	Huntingtin-interacting protein 1-related protein			X		0	1068	0	0	3		1.00	0	0	2	0	0	2	
IPI00886422.1	P84228	Hist1h	Histone H3.2		X			0	135	0	50	0	0.96		0	6	0	0	6	0	
IPI00228616.5	P43275	Hist1h1a	Histone H1.1		X	X	X	0	213	19	19	26	1.00	1.00	1.00	5	5	6	5	5	6
IPI00230133.5	P43276	Hist1h1b	Histone H1.5		X	X	X	0	223	15	32	18	1.00	1.00	1.00	3	9	4	3	9	4
IPI00223713.5	P15864	Hist1h1c	Histone H1.2		X	X	X	0	212	24	16	24	1.00	1.00	1.00	8	4	5	8	4	5
IPI00331597.6	P43277	Hist1h1d	Histone H1.3		X	X	X	0	221	15	29	23	1.00	1.00	1.00	6	9	5	6	9	5
IPI00223714.5	P43274	Hist1h1e	Histone H1.4		X	X	X	0	219	16	28	19	1.00	1.00	1.00	5	8	4	5	8	4
IPI00229542.1	Q8CGP4	Hist1h2aa	Histone H2A		X		X	1	129	36	0	50	1.00	0.97	8	0	4	8	0	4	
IPI00229543.3	Q8CGP5	Hist1h2af	Histone H2A type 1-F		X			1	130	36	0	0	1.00		8	0	0	8	0	0	
IPI00111957.3	P70696	Hist1h2ba	Histone H2B type 1-A		X	X		0	127	55	61	0	1.00	1.00	11	11	0	10	11	0	
IPI00761713.2	Q8CGP2-2	Hist1h2bp	Histone H2B type 1-P		X	X	X	0	138	51	19	38	1.00	1.00	1.00	13	2	9	10	2	6
IPI00459318.1	Q8C622	Hist1h2bp	Putative uncharacterized protein		X	X		0	145	12	19	0	0.01	1.00	3	4	0	3	4	0	
IPI00553538.3	P68433	Hist1h3a	Histone H3.1			X	X	0	136	0	50	50	1.00	1.00	0	10	10	0	6	6	
IPI00330000.4	Q6GSS7	Hist2h2aa2	Histone H2A type 2-A		X	X		1	130	55	55	0	1.00	0.97	7	6	0	7	5	0	
IPI00623951.3	Q64522	Hist2h2ab	Histone H2A type 2-B		X	X	X	1	130	53	52	53	1.00	1.00	1.00	6	6	6	6	5	6
IPI00282848.1	Q8CGN9	Hist2h3c1	histone cluster 2, H3c1		X	X		0	181	0	38	38	1.00	1.00	0	7	7	0	6	6	
IPI00379693.1	P84228	Hist2h3c1	Histone H3.2		X			0	136	0	50	0	0.98		0	6	0	0	6	0	
IPI00283611.1	P17710	Hk1	Hexokinase-1		X			1	974	0	6	0	1.00		0	5	0	0	5	0	
IPI00114342.1	O08528	Hk2	Hexokinase-2			X	X	0	917	0	19	3	1.00	1.00	0	14	2	0	14	2	
IPI00408022.4	Q3TIV0	Hmbs	Hydroxymethylbilane synthase			X		1	361	0	0	10		1.00	0	0	2	0	0	2	
IPI00467235.4	Q8C716	Hmcn1	hemicentin 1			X		4	5635	0	0	3		0.95	0	0	10	0	0	10	
IPI00314240.5	P17095	Hmga1-rs1	Isoform HMG-I of High mobility group protein HMG-I/HMG-Y			X	UF	0	107	0	0	22		0.95	0	0	3	0	0	3	
IPI00462291.5	P30681	Hmgb2	High mobility group protein B2		X	X		0	210	0	31	16	1.00	1.00	0	7	3	0	6	3	
IPI00752490.1	Q8VDR2	Hmmr	Hmmr protein		X			0	836	14	0	0	1.00		6	0	0	6	0	0	
IPI00314755.5	P97825	Hn1	Hematological and neurological expressed 1 protein		X			0	154	65	0	0	1.00		7	0	0	6	0	0	
IPI00109813.1	Q9CX86	Hnrnpa0	heterogeneous nuclear ribonucleoprotein A0		X	X	X	0	305	14	28	14	1.00	1.00	1.00	3	5	3	3	5	3
IPI00553777.2	Q3UK83	Hnrnpa1	Putative uncharacterized protein		X	X	X	0	373	39	44	27	1.00	1.00	1.00	19	19	10	17	16	10
IPI00889986.1	P49312	Hnrnpa1	Heterogeneous nuclear ribonucleoprotein A1		X			0	193	44	0	0	1.00		9	0	0	7	0	0	
IPI00269661.1	Q8BG05	Hnrnpa3	Heterogeneous nuclear ribonucleoprotein A3		X	X		0	379	38	26	0	1.00	1.00	20	13	0	18	11	0	
IPI00277066.4	Q20BD0	Hnrnpab	Heterogeneous nuclear ribonucleoprotein A/B		X	X	X	0	332	31	28	17	1.00	1.00	1.00	17	9	4	16	9	4

IPI00130343.2	Q3U6P5	Hnrnpc	Putative uncharacterized protein		X	X		0	334	0	24	15	1.00	1.00	0	9	5	0	8	5		
IPI00330958.2	Q60668	Hnrnpd	Heterogeneous nuclear ribonucleoprotein D0		X	X	X	0	355	23	11	8	1.00	1.00	1.00	13	4	3	11	4	3	
IPI00226073.2	Q9Z2X1	Hnrmpf	Heterogeneous nuclear ribonucleoprotein F		X	X	X	0	415	19	33	19	1.00	1.00	1.00	8	10	6	6	9	6	
IPI00224729.1	Q8C2Q7	Hnrmp1	Putative uncharacterized protein		X	X	X	0	472	22	23	15	1.00	1.00	1.00	8	6	5	7	6	5	
IPI00108143.1	P70333	Hnrmp2	Heterogeneous nuclear ribonucleoprotein H2		X			0	449	16	0	0	1.00			7	0	0	5	0	0	
IPI00224575.1	P61979-2	Hnrmpk	Heterogeneous nuclear ribonucleoprotein K		X	X	X	0	464	22	44	36	1.00	1.00	1.00	7	14	10	7	14	10	
IPI00620362.4	Q8R081	Hnrnpl	Heterogeneous nuclear ribonucleoprotein L		X	X	X	0	586	13	46	18	1.00	1.00	1.00	6	18	6	5	17	6	
IPI00132443.3	Q9D0E1	Hnrnrm	Heterogeneous nuclear ribonucleoprotein M		X	X	X	0	729	15	19	10	1.00	1.00	1.00	10	13	5	9	13	5	
IPI00128441.3	Q8VHM5	Hnrnpr	Putative uncharacterized protein		X	X		0	632	12	12	0	1.00	1.00		5	6	0	5	6	0	
IPI00458583.3	Q8VEK3	Hnrnpu	Putative uncharacterized protein			X	X	0	800	0	30	22	1.00	1.00		0	22	14	0	22	14	
IPI00123501.3	Q8VDM6	Hnrnpul1	Isoform 1 of Heterogeneous nuclear ribonucleoprotein U-like protein 1		X			2DLC	0	859	14	0	0	1.00			7	0	0	7	0	0
IPI00755892.1	Q9Z130	Hnrpdl	heterogeneous nuclear ribonucleoprotein D-like		X	X	X	0	420	24	4	6	1.00	0.99	1.00	11	2	2	9	2	2	
IPI00395047.1	Q99JP6-2	Homer3	Homer protein homolog 3		X			0	359	12	0	0	1.00			2	0	0	2	0	0	
IPI00284806.8	P00493	Hprt1	Hypoxanthine-guanine phosphoribosyltransferase		X	X	X	0	218	18	30	18	1.00	1.00	1.00	3	5	3	3	5	3	
IPI00128484.1	Q91X72	Hpx	Hemopexin		X			0	460	5	0	0	1.00			3	0	0	3	0	0	
IPI00130235.2	Q3TC93	Hs1bp3	HCLS1-binding protein 3		X			0	396	10	0	0	0.97			2	0	0	2	0	0	
IPI00170051.2	Q8K3A0	Hscb	Co-chaperone protein HscB, mitochondrial		X			0	234	14	0	0	0.98			2	0	0	2	0	0	
IPI00830581.1	Q99N15	Hsd17b10	hydroxyacyl-Coenzyme A dehydrogenase type II			X		2	261	0	32	0	1.00			0	4	0	0	4	0	
IPI00119219.2	O70503	Hsd17b12	Isoform 1 of Estradiol 17-beta-dehydrogenase 12			X	X	1DE	2	312	0	13	9	1.00	0.98	0	3	2	0	3	2	
IPI00331628.5	P51660	Hsd17b4	Peroxisomal multifunctional enzyme type 2				X	0	735	0	0	5		1.00	0	0	2	0	0	0	2	
IPI00330804.4	P07901	Hsp90aa1	Heat shock protein HSP 90-alpha		X	X	X	2	733	29	58	51	1.00	1.00	1.00	19	49	32	17	42	30	
IPI00229080.7	Q71LX8	Hsp90ab1	MCG18238		X	X	X	3	724	25	54	53	1.00	1.00	1.00	17	43	30	16	40	30	
IPI00129526.1	P08113	Hsp90b1	Endoplasmic		X	X	X	1	802	11	33	16	1.00	1.00	1.00	6	23	11	6	23	11	
IPI00652428.1	Q99M31-2	Hspa14	Heat shock 70 kDa protein 14				X	0	515	0	0	6		1.00	0	0	2	0	0	2		
IPI00346073.1	P17879	Hspa1b	Heat shock 70 kDa protein 1B		X		X	0	642	8	0	15	1.00	0.97	3	0	6	3	0	6		
IPI00133208.3	P16627	Hspa1l	Heat shock 70 kDa protein 1L		X			0	641	4	0	0	0.00			2	0	0	2	0	0	
IPI00331556.5	Q61316	Hspa4	Heat shock 70 kDa protein 4		X	X	X	0	841	28	47	26	1.00	1.00	1.00	18	27	17	15	27	17	
IPI00317710.1	P48722	Hspa4l	Heat shock 70 kDa protein 4L		X			1	838	5	0	0	0.90			4	0	0	3	0	0	
IPI00319992.1	P20029	Hspa5	78 kDa glucose-regulated protein		X	X	X	0	655	42	45	25	1.00	1.00	1.00	25	24	12	22	24	12	
IPI00323357.3	P63017	Hspa8	Heat shock cognate 71 kDa protein		X	X	X	0	646	53	67	55	1.00	1.00	1.00	26	40	29	23	36	28	
IPI00880839.1	Q7TSZ0	Hspa9	heat shock protein 9		X	X	X	0	679	6	49	33	1.00	1.00	1.00	3	31	17	3	27	17	
IPI00128522.1	P14602	Hspb1	Isoform A of Heat shock protein beta-1		X	X	X	2DLC, 1DE, UF	0	209	82	65	71	1.00	1.00	1.00	15	10	11	15	10	11
IPI00308885.6	P63038	Hspd1	Isoform 1 of 60 kDa heat shock protein, mitochondrial		X	X	X	2DLC, 1DE, UF	1	573	14	57	48	1.00	1.00	1.00	7	36	22	4	29	22
IPI00263863.8	Q64433	Hspe1	10 kDa heat shock protein, mitochondrial		X	X	X	0	102	57	71	33	1.00	1.00	1.00	6	9	3	6	9	3	
IPI00515360.8	Q05793	Hspg2	perlecan			X		1	4383	0	2	0	1.00			0	6	0	0	6	0	
IPI00123802.5	Q61699	Hsph1	Isoform HSP105-alpha of Heat shock protein 105 kDa		X	X	X	2DLC	0	858	21	11	8	1.00	1.00	1.00	10	8	5	10	8	5
IPI00271166.4	P42858	Htt	huntingtin		X			11	3120	1	0	0	0.98			2	0	0	2	0	0	
IPI00463909.3	A2AFQ0	Huwe1	HECT, UBA and WWE domain containing 1			X	X	11	4378	0	6	2	1.00	1.00	0	18	3	0	18	3		
IPI00319167.7	Q80W93	Hydin	hydrocephalus inducing			X		5	5154	0	0	1	0.94			0	0	5	0	0	5	

IPI00123342.4	Q9JKR6	Hyou1	Hypoxia up-regulated protein 1	X	X	X		0	999	27	7	6	1.00	1.00	1.00	21	5	3	19	5	3
IPI00225201.5	Q8BU30	lars	Isoleucyl-tRNA synthetase, cytoplasmic		X	X		3	1262	0	7	6	1.00	1.00	0	6	4	0	6	4	4
IPI00453499.3	Q8BIJ6	lars2	Isoleucyl-tRNA synthetase, mitochondrial		X	X		2	1012	0	11	5	1.00	0.99	0	5	4	0	5	4	4
IPI00828796.1	Q8CGB9	lde	insulin-degrading enzyme			X		1	1019	0	0	4	1.00	0	0	4	0	0	4	0	4
IPI00135231.2	Q8C338	ldh1	Putative uncharacterized protein			X		0	422	0	0	5	1.00	0	0	2	0	0	0	0	2
IPI00875110.1	P93032	ldh2	Isocitrate dehydrogenase [NAD] regulatory subunit 2, mitochondrial (X	0	469	0	0	13	1.00	0	0	4	0	0	0	0	4
IPI00459725.2	Q9D6R2	ldh3a	Isoform 1 of Isocitrate dehydrogenase [NAD] subunit alpha, mitochondrial		X		1DE	2	366	0	11	0	1.00	0	0	4	0	0	4	0	0
IPI00109169.1	P70404	ldh3g	Isocitrate dehydrogenase [NAD] subunit gamma, mitochondrial		X			0	393	0	3	0	1.00	0	0	2	0	0	2	0	0
IPI00131056.1	O88477	lgf2bp1	Insulin-like growth factor 2 mRNA-binding protein 1	X	X	X		1	577	22	37	32	1.00	1.00	1.00	10	19	16	10	18	16
IPI00761863.1	Q5SF07	lgf2bp2	Isoform 1 or 3 of Insulin-like growth factor 2 mRNA-binding protein 2	X			2DLC	1	592	14	0	0	1.00	0	0	5	0	0	5	0	0
IPI00331315.9	Q9CPN8	lgf2bp3	Insulin-like growth factor 2 mRNA-binding protein 3	X	X			0	579	6	4	0	0.99	1.00	0	2	2	0	2	2	0
IPI00308971.1	Q07113	lgf2r	Cation-independent mannose-6-phosphate receptor		X			2	2483	0	4	0	1.00	0	0	7	0	0	7	0	0
IPI00463186.7		lgsf9b	immunoglobulin superfamily, member 9B				X	3	1328	0	0	6	0.92	0	0	5	0	0	0	0	5
IPI00127947.3	Q95H93	lk	lK cytokine	X		X		0	557	21	0	3	1.00	1.00	9	0	2	8	0	2	2
IPI00831040.1	Q7TSS3	lkbkg	Inhibitor of kappaB kinase gamma	X				0	430	16	0	0	1.00	0	0	5	0	0	5	0	0
IPI00875742.1	Q3UXI9	llf2	Putative uncharacterized protein		X	X		2	390	0	23	20	1.00	1.00	0	6	5	0	5	5	5
IPI00130591.2	Q9Z1X4-3	llf3	Isoform 1 or 3 of Interleukin enhancer-binding factor 3	X	X	X	2DLC	0	911	16	6	4	1.00	1.00	0.99	8	5	4	8	5	4
IPI00381412.1	Q8CAQ8-2	lmmt	Mitochondrial inner membrane protein		X			1	746	0	48	0	1.00	0	0	26	0	0	26	0	0
IPI00122383.1	Q921Y2	lmp3	U3 small nucleolar ribonucleoprotein protein IMP3	X				0	184	35	0	0	1.00	0	0	6	0	0	5	0	0
IPI00395166.2	Q8VHZ7	lmp4	U3 small nucleolar ribonucleoprotein protein IMP4	X				0	291	33	0	0	1.00	0	0	6	0	0	6	0	0
IPI00319956.1	O55091	lmpact	Protein IMPACT	X				0	318	15	0	0	1.00	0	0	2	0	0	2	0	0
IPI00323971.2	P24547	lmpdh2	Inosine-5'-monophosphate dehydrogenase 2	X	X	X		2	514	7	33	30	0.99	1.00	1.00	3	12	13	3	12	13
IPI00135965.2	P46660	lna	Alpha-internexin	X				0	504	6	0	0	1.00	0	0	2	0	0	2	0	0
IPI00265986.1	Q9WU62	lncenp	Inner centromere protein	X		X		1	880	4	0	3	0.99	1.00	2	0	2	2	0	2	2
IPI00877221.2	Q6P4S8	Ints1	Isoform 1 of Integrator complex subunit 1			X	UF	5	2222	0	0	1	0.97	0	0	2	0	0	0	0	2
IPI00355368.4	Q8K2V6-2	lpo11	Importin-11			X		3	984	0	0	4	1.00	0	0	3	0	0	0	0	2
IPI00128880.3	Q8VI75	lpo4	Importin-4			X		3	1082	0	0	8	1.00	0	0	7	0	0	0	0	7
IPI00626994.3	Q8BKCS	lpo5	Isoform 1 of Importin-5		X	X	1DE	0	1097	0	23	15	1.00	1.00	0	17	13	0	17	12	12
IPI00331444.7	Q9EPL8	lpo7	Importin-7		X	X		2	1038	0	12	11	1.00	1.00	0	7	8	0	7	8	8
IPI00130158.3	Q91YE6	lpo9	Importin-9		X	X		6	1041	0	6	5	1.00	1.00	0	2	3	0	2	3	3
IPI00467447.3	Q9JKF1	lqqap1	Ras GTPase-activating-like protein IQGAP1	X	X	X		1	1657	3	4	6	1.00	1.00	1.00	3	5	9	3	5	9
IPI00854942.1		lrf2bp2	similar to interferon regulatory factor 2 binding protein 2	X				1	763	8	0	0	1.00	0	0	3	0	0	3	0	0
IPI00222565.2	Q3U1G5	lsg20l2	unnamed protein product	X				0	369	14	0	0	1.00	0	0	3	0	0	3	0	0
IPI00469994.2	Q69ZQ2	lsy1	Pre-mRNA-splicing factor ISY1 homolog	X				0	285	11	0	0	0.99	0	0	2	0	0	2	0	0
IPI00119886.1	Q9JHU9	lsyna1	Inositol-3-phosphate synthase 1			X	X	1	557	0	9	9	1.00	1.00	0	3	3	0	3	3	3
IPI00420835.3	Q61739	ltga6	Integrin alpha-6	X				2	1091	4	0	0	1.00	0	0	3	0	0	3	0	0
IPI00132474.3	P09055	ltgb1	Integrin beta-1		X	X		1	798	0	7	5	1.00	0.99	0	4	2	0	4	4	2
IPI00227834.8	Q61703	ltih2	Inter-alpha-trypsin inhibitor heavy chain H2	X				1	946	3	0	0	1.00	0	0	2	0	0	2	0	0

IPI00831223.1	Q9Z0R4	Itns1	Intersectin-1	X						1	1719	2	0	0	0.99		2	0	0	2	0	0
IPI00124575.1	Q62315	Jarid2	Protein Jumonji	X		X				1	1234	4	0	3	1.00	0.92	2	0	2	2	0	2
IPI00453693.2	Q91XC0	Jub	Protein ajuba	X						0	547	13	0	0	1.00		4	0	0	4	0	0
IPI00229475.1	Q02257	Jup	Junction plakoglobin	X	X	X				0	745	23	9	10	1.00	1.00	1.00	11	5	5	10	5
IPI00469103.1	Q8R2P8	Kars	Lysyl-tRNA synthetase		X	X				0	624	0	18	8	1.00	1.00	0	9	4	0	9	4
IPI00460716.2	Q6PCM1	Kdm3a	Lysine-specific demethylase 3A			X				1	1323	0	0	7		1.00	0	0	4	0	0	4
			Isoform 1 of Lysine-specific demethylase																			
IPI00648673.4	Q8BW72	Kdm4a	4A			X		UF		0	1064	0	0	4		0.90	0	0	2	0	0	2
IPI00330824.9	Q80Y84	Kdm5b	Lysine-specific demethylase 5B			X				1	1544	0	2	0		0.99	0	2	0	0	2	0
			KH domain-containing, RNA-binding, signal transduction-associated protein 1	X						0	443	8	0	0	1.00		3	0	0	3	0	0
			KH domain-containing, RNA-binding, signal transduction-associated protein 3	X						0	346	7	0	0	1.00		2	0	0	2	0	0
			KH type splicing regulatory protein KSRP	X	X	X				0	671	15	12	12	1.00	1.00	1.00	8	8	7	7	7
			Far upstream element-binding protein 2	X	X					0	748	18	12	0	1.00	1.00		9	8	0	8	7
IPI00462934.2	Q3U0V1	Khsrp	Far upstream element-binding protein 2	X	X					0	748	18	12	0	1.00	1.00		9	8	0	8	7
IPI00130218.2	Q6P9P6	Kif11	Kinesin-like protein KIF11			X				0	1052	0	0	5		1.00	0	0	4	0	0	4
IPI00626501.3	Q3UH16	Kif1a	Putative uncharacterized protein			X				1	1698	0	0	4		0.99	0	0	4	0	0	4
IPI00407864.2	Q80V30	Kif23	Kinesin family member 23			X				0	953	0	0	3		0.91	0	0	2	0	0	2
IPI00881982.1	P28740	Kif2a	Kinesin-like protein KIF2A		X					0	660	13	0	0	1.00		6	0	0	6	0	0
IPI00123365.1	Q922S8	Kif2c	Kinesin-like protein KIF2C		X					0	721	6	0	0	1.00		3	0	0	3	0	0
IPI00881456.1	Q80YP3	Kif4	kinesin family member 4		X					0	1231	3	0	0	1.00		2	0	0	2	0	0
IPI00555125.1	Q5BL10	Kif5b	Kinesin family member 5B		X		X			0	963	4	0	5	1.00	1.00	3	0	3	3	0	3
IPI00620804.2	Q7M6Z6	Klc1	Kinesin light chain 1T (Fragment)		X					0	636	15	0	0	1.00		7	0	0	6	0	0
IPI00120089.1	Q9DBS5	Klc4	Kinesin light chain 4		X					0	619	9	0	0	1.00		3	0	0	3	0	0
IPI00311329.1	Q60960	Kpna1	Importin subunit alpha-1				X			3	538	0	0	11		1.00	0	0	3	0	0	3
IPI00230429.4	O35344	Kpna3	Importin subunit alpha-3				X			1	521	0	0	18		1.00	0	0	4	0	0	4
IPI00129792.1	O35343	Kpna4	Importin subunit alpha-4				X			1	521	0	8	0	1.00		0	2	0	0	2	0
IPI00323881.1	P70168	Kpnb1	Importin subunit beta-1				X	X		0	876	0	45	30	1.00	1.00	0	28	19	0	24	19
IPI00625729.2	P04104	Krt1	Keratin, type II cytoskeletal 1		X	X				0	637	7	6	0	1.00	1.00	6	5	0	6	5	0
IPI00798492.2	P02535	Krt10	Keratin, type I cytoskeletal 10		X	X	X			0	570	11	10	7	1.00	1.00	0.94	7	8	3	6	7
IPI00227140.1	Q61781	Krt14	Keratin, type I cytoskeletal 14		X					1	484	30	0	0	1.00		17	0	0	13	0	0
IPI00828528.1	Q61782	Krt14	Type I epidermal keratin (Fragment)		X					0	93	54	0	0	1.00		4	0	0	4	0	0
IPI00225378.3	B1AQ77	Krt15	Keratin 15		X					1	456	14	0	0	0.98		10	0	0	8	0	0
IPI00131209.3	Q9EQD6	Krt16	Keratin intermediate filament 16a		X					1	474	18	0	0	1.00		10	0	0	8	0	0
IPI00230365.5	Q9QWL7	Krt17	Keratin, type I cytoskeletal 17		X	X				0	433	52	12	0	1.00	1.00	25	5	0	20	5	0
IPI00311493.5	P05784	Krt18	Keratin, type I cytoskeletal 18		X		X			0	423	22	0	40	1.00	1.00	6	0	14	6	0	14
IPI00112947.1	P19001	Krt19	Keratin, type I cytoskeletal 19		X	X	X			0	403	16	12	23	1.00	1.00	1.00	7	3	8	6	3
			Keratin, type II cytoskeletal 2 epidermal	X	X					0	707	6	10	0	1.00	1.00		5	7	0	5	7
IPI00462134.3	Q6IFX3	Krt40	Keratin, type I cytoskeletal 40			X				0	439	0	5	0	0.95		0	2	0	0	2	0
IPI00468696.3	Q6IFX2	Krt42	Keratin, type I cytoskeletal 42		X	X				0	452	24	6	0	1.00	1.00	13	3	0	12	3	0
IPI00139301.3	Q922U2	Krt5	Keratin, type II cytoskeletal 5		X	X				1	580	21	16	0	1.00	1.00	16	11	0	11	11	0
IPI00131368.3	P50446	Krt6a	Keratin, type II cytoskeletal 6A		X					1	553	23	0	0	1.00		12	0	0	11	0	0
IPI00406377.3	Q9DCV7	Krt7	Keratin, type II cytoskeletal 7		X					0	457	2	0	0	0.99		1	0	0	1	0	0
IPI00347110.2	Q6NXH9	Krt73	Keratin, type II cytoskeletal 73		X	X				0	539	6	10	0	0.99	1.00	3	5	0	3	5	0
IPI00221797.1	Q8BGZ7	Krt75	Keratin, type II cytoskeletal 75		X					0	551	16	0	0	0.99		10	0	0	8	0	0
IPI00346834.1	Q3UV17	Krt76	Keratin, type II cytoskeletal 2 oral		X	X				0	594	6	10	0	0.93	1.00	3	4	0	3	4	0
IPI00462140.1	Q6IFZ6	Krt77	Keratin, type II cytoskeletal 1b		X					2	572	8	0	0	1.00		6	0	0	6	0	0
IPI00124499.2	Q8VED5	Krt79	Keratin, type II cytoskeletal 79		X	X				0	531	6	5	0	1.00	1.00	5	4	0	5	4	0
IPI00322209.5	P11679	Krt8	Keratin, type II cytoskeletal 8		X	X	X			1	490	11	13	41	1.00	1.00	1.00	5	7	18	5	7
IPI00474575.5	Q9ERE2	Krt81	keratin complex 2, basic, gene 19			X				0	481	0	9	0	0.97		0	4	0	0	4	0
IPI00331459.1	Q9Z2T6	Krt85	Keratin, type II cuticular Hb5		X					0	507	2	0	0	0.99		1	0	0	1	0	0
IPI00122559.3	Q61595	Ktn1	Kinectin			X				1	1327	0	10	0		1.00	0	11	0	0	11	0

IPI00378700.2	Q587J6	L1td1	LINE-1 type transposase domain-containing protein 1		X	X		0	782	0	24	11		1.00	1.00	0	15	9	0	15	9	
IPI00676957.3	A2ABW7	Lama5	laminin, alpha 5 precursor		X			3	3718	0	1	0		0.99		0	2	0	0	2	0	
IPI00338785.3	P02469	Lamb1-1	laminin B1 subunit 1		X			0	1834	0	2	0		1.00		0	2	0	0	2	0	
IPI00400016.1	P02468	Lamc1	Laminin subunit gamma-1		X			0	1607	0	3	0		1.00		0	3	0	0	3	0	
IPI00331436.4	Q9CPY7	Lap3	Cytosol aminopeptidase		X	X	X	1	519	21	23	21		1.00	1.00	1.00	6	8	8	6	8	8
IPI00344088.6	Q6ZQ58	Larp1	la related protein		X	X		0	1339	9	3	0		1.00	1.00		10	3	0	9	3	0
IPI00278107.4	Q8BVS5	Larp2	Putative uncharacterized protein		X			0	335	10	0	0		1.00			2	0	0	2	0	0
IPI00828620.1	Q8BWW4	Larp4	La-related protein 4		X	X		0	719	9	3	0		1.00	0.99		4	2	0	4	2	0
IPI00620564.3	Q6A0A2	Larp5	Isoform 1 or 2 of La-related protein 4B		X		2DLC	0	741	8	0	0		1.00			4	0	0	4	0	0
IPI00340860.5	Q05CL8	Larp7	La-related protein 7		X			0	570	13	0	0		1.00			8	0	0	6	0	0
IPI00453819.2	Q8BMJ2	Lars	Leucyl-tRNA synthetase, cytoplasmic		X	X	X	0	1178	6	8	5		1.00	1.00	1.00	5	6	4	5	6	4
IPI00462502.3	A2BE28	Las1l	LAS1-like				X	0	776	0	0	5			1.00		0	0	3	0	0	3
IPI00125091.1	Q61792	Lasp1	LIM and SH3 domain protein 1		X		X	0	263	16	0	16		1.00	1.00		5	0	4	3	0	4
IPI00331173.8	Q3U9G9	Lbr	Lamin-B receptor			X		9	626	0	7	0		1.00			0	4	0	0	4	0
IPI00751369.1	P06151	Ldha	Lactate dehydrogenase A		X	X	X	1	361	13	72	33		1.00	1.00	1.00	3	23	10	3	19	10
IPI00229510.5	P16125	Ldhb	L-lactate dehydrogenase B chain			X	X	1	334	0	34	36		1.00	1.00		0	9	0	0	9	9
IPI00624364.3	Q3V0V0	Ldlrad2	Putative uncharacterized protein			X		1	142	0	0	26			1.00		0	0	2	0	0	2
IPI00229517.5	P16045	Lgals1	Galectin-1			X		0	135	0	0	36			1.00		0	0	4	0	0	4
IPI00348910.2	Q61211-2	Lgtn	Ligatin			X		0	587	0	0	9			1.00		0	0	2	0	0	2
IPI00263557.4	P50481-2	Lhx3	LIM/homeobox protein Lhx3			X		0	402	0	0	8			0.94		0	0	3	0	0	3
IPI00117104.1	Q99M04	Lias	Lipoyl synthase, mitochondrial		X			0	373	10	0	0		1.00			2	0	0	2	0	0
IPI00473314.3	Q3U4X8	Lig1	DNA ligase I				X	0	932	0	5	0			1.00		0	3	0	0	3	0
IPI00170180.5	Q8K3Y3	Lin28	Lin-28 homolog A		X			1	209	31	0	0		1.00			7	0	0	5	0	0
IPI00112043.2	Q9D945	Llph	Protein LLP homolog		X			0	130	29	0	0		1.00			6	0	0	4	0	0
IPI00620256.3	P48678	Lmna	Lamin-A/C		X			0	665	19	0	0		1.00			11	0	0	9	0	0
IPI00230394.5	P14733	Lmnb1	Lamin-B1		X	X	X	0	588	23	42	15		1.00	1.00	1.00	10	22	8	9	22	8
IPI00126191.5	P21619	Lmnb2	Isoform B2 of Lamin-B2		X	X	1DE	0	596	7	12	0		1.00	1.00		3	9	0	3	9	0
IPI00331707.1	Q8JZK9	LOC100040592	Hydroxymethylglutaryl-CoA synthase, cytoplasmic			X		1	520	0	7	0		1.00			0	2	0	0	2	0
IPI00831151.2		LOC100043977	similar to lgh protein		X			0	201	16	0	0		0.92			2	0	0	2	0	0
IPI00330862.5	P26040	LOC100044177	Ezrin		X	X	X	0	586	17	28	12		1.00	1.00	1.00	9	15	7	8	15	7
IPI00462072.3	P17182	LOC100044223	Alpha-enolase		X	X	X	1	434	61	69	55		1.00	1.00	1.00	29	31	18	22	24	17
IPI00321923.5	Q8K1R3	LOC100044383	Polyribonucleotide nucleotidyltransferase 1, mitochondrial			X		1	783	0	4	0		1.00			0	3	0	0	3	0
IPI00850753.1		LOC100044395	similar to RNA binding protein gene with multiple splicing		X			0	226	19	0	0		1.00			3	0	0	3	0	0
IPI00124149.1	P61971	LOC100044514	Nuclear transport factor 2			X		0	127	0	51	0		1.00			0	4	0	0	4	0
IPI00119581.2	P35550	LOC100044829	rRNA 2'-O-methyltransferase fibrillarin		X	X	X	0	327	38	26	35		1.00	1.00	1.00	14	6	10	8	6	10
IPI00317752.2	Q9D7F7	LOC100044854	Charged multivesicular body protein 4c		X			0	232	27	0	0		1.00			3	0	0	3	0	0
IPI00850433.1		LOC100044980	similar to Thoc7 protein		X			0	335	12	0	0		1.00			2	0	0	2	0	0
IPI00848728.1		LOC100045132	similar to polyglutamine-containing protein		X			0	833	13	0	0		1.00			5	0	0	5	0	0
IPI00474487.1		LOC100045157	hypothetical protein		X		X	0	105	21	0	29		0.99	1.00		6	0	3	4	0	3
IPI00849786.1		LOC100045189	similar to transcription factor EF1		X	X	X	0	325	47	18	31		1.00	1.00	1.00	12	3	6	11	3	6
IPI00853914.1		LOC100045191	similar to heterogeneous nuclear ribonucleoprotein A2/B1		X	X	X	0	814	19	16	8		1.00	1.00	1.00	17	13	7	17	12	7
IPI00848537.1		LOC100045253	similar to Scoc protein		X			0	197	23	0	0		1.00			2	0	0	2	0	0
IPI00785343.2	P84244	LOC100045490	Histone H3.3			X		0	136	0	40	0		1.00			0	4	0	0	4	0
IPI00848492.1		LOC100045699	Similar to Electron transferring flavoprotein, beta polypeptide			X	X	0	258	0	7	16		0.96	0.94		0	2	3	0	2	3
IPI00849741.1		LOC100045848	similar to BUD31 homolog (S. cerevisiae)		X			0	144	26	0	0		1.00			4	0	0	4	0	0
IPI00265239.1		LOC100045925	similar to cytochrome c		X			0	105	28	0	0		0.99			4	0	0	3	0	0
IPI00118447.1	P42669	LOC100045958	Transcriptional activator protein Pur-alpha		X			0	321	18	0	0		1.00			3	0	0	3	0	0
IPI00134621.3	P62827	LOC100045999	GTP-binding nuclear protein Ran		X	X	X	0	216	25	40	45		1.00	1.00	1.00	4	9	11	4	9	11

IPI00116154.2	Q9D881	LOC100046079	cytochrome c oxidase, subunit Vb		X					0	129	0	16	0	1.00	0	3	0	0	2	0		
IPI00154004.1	Q7TQI3	LOC100046081	Ubiquitin thioesterase OTUB1			X				0	271	0	0	11	1.00	0	0	3	0	0	3		
IPI00850217.1		LOC100046119	similar to ubiquitin-conjugating enzyme E2 UbcH-ben		X	X				2	232	0	30	19	1.00	1.00	0	4	5	0	4	5	
IPI00850430.1		LOC100046151	similar to Solute carrier family 25 (mitochondrial carrier, phosphate carrier), member 3		X	X				4	357	0	27	25	1.00	1.00	0	8	7	0	8	7	
IPI00848890.1		LOC100046167	similar to Chain B, Crystal Structure Of Sumo-3-Modified Thymine-Dna Glycosylase		X	X				0	199	0	11	11	1.00	1.00	0	2	2	0	2	2	
IPI00854971.1		LOC100046302	similar to Protein disulfide isomerase associated 6		X	X	X			0	391	24	18	25	1.00	1.00	1.00	7	5	6	7	5	6
IPI00131459.1	P15532	LOC100046344	Nucleoside diphosphate kinase A		X	X	X			0	152	34	61	64	1.00	1.00	1.00	7	10	10	3	9	9
IPI00330303.7	Q9CWX9	LOC100046995	Bifunctional purine biosynthesis protein PURH		X	X	X			0	592	6	41	35	1.00	1.00	1.00	3	15	14	3	15	14
IPI00129466.1	P83917	LOC100047028	Chromobox protein homolog 1		X	X				0	185	24	40	0	1.00	1.00		8	5	0	5	5	0
IPI00750945.2		LOC100047199	Outer dense fiber protein 2		X					0	869	9	0	0	1.00			5	0	0	5	0	0
IPI00115831.1	O55128	LOC100047209	Histone deacetylase complex subunit SAP18		X					0	153	27	0	0	0.99			3	0	0	3	0	0
IPI00849478.1		LOC100047252	Phosphoserine aminotransferase 1			X	X			0	370	0	36	21	1.00	1.00	0	11	6	0	11	6	
IPI00849074.1		LOC100047305	similar to 40S ribosomal protein S28			X				0	69	0	57	0	1.00			0	5	0	0	4	0
IPI00755226.2		LOC100047311	similar to protein translocation complex beta subunit			X				1	102	0	21	0	1.00			0	2	0	0	2	0
IPI00462008.5		LOC100047352	similar to Glyceraldehyde-3-phosphate dehydrogenase		X					0	332	43	0	0	1.00			11	0	0	9	0	0
IPI00118986.1	Q9DB20	LOC100047429	ATP synthase subunit O, mitochondrial			X	X			0	213	0	41	29	1.00	1.00	0	7	5	0	6	4	
IPI00850111.1		LOC100047539	similar to SEC15 homolog		X					1	663	6	0	0	0.92			2	0	0	2	0	0
IPI00125861.2	Q811D0-3	LOC100047603	Disks large homolog 1		X					1	927	4	0	0	1.00			2	0	0	2	0	0
IPI00187443.1	P59325	LOC100047658	Eukaryotic translation initiation factor 5		X		X			0	429	8	0	8	1.00	1.00	3	0	2	3	0	2	
IPI00849728.1		LOC100047762	similar to Aspartate aminotransferase, cytoplasmic		X	X	X			0	396	19	20	29	1.00	1.00	1.00	4	6	7	4	6	7
IPI00133229.1	Q9D0W5	LOC100047806	Peptidyl-prolyl cis-trans isomerase-like 1		X					0	166	14	0	0	1.00			2	0	0	2	0	0
IPI00110172.1	P16951	LOC100047997	Cyclic AMP-dependent transcription factor ATF-2		X					0	487	13	0	0	1.00			3	0	0	3	0	0
IPI00114862.1	Q99J36	LOC100048066	THUMP domain-containing protein 1		X					0	350	13	0	0	1.00			3	0	0	3	0	0
IPI00127989.1	Q9R0Q7	LOC100048119	Prostaglandin E synthase 3			X	X			0	160	0	42	37	1.00	1.00	0	6	5	0	6	5	
IPI00125901.5	P62301	LOC100048340	40S ribosomal protein S13		X	X	X			0	151	31	36	31	1.00	1.00	1.00	6	6	5	6	6	5
IPI00129685.2		LOC100048430	Translationally-controlled tumor protein		X	X	X			0	179	31	21	28	1.00	1.00	1.00	3	3	4	3	3	4
IPI00874964.3		LOC100048438	36 kDa protein		X					0	337	49	0	0	1.00			14	0	0	11	0	0
IPI00849113.1		LOC100048445	similar to fau		X		X			0	133	29	0	8	1.00	1.00	4	0	2	4	0	2	
IPI00112004.1	Q9D937	LOC100048454	MCG17849		X					0	123	37	0	0	1.00			5	0	0	4	0	0
IPI00420807.3	Q6PDM2	LOC100048559	Splicing factor, arginine/serine-rich 1		X	X	X			0	248	20	10	15	1.00	1.00	1.00	4	2	3	4	2	3
IPI00850817.1		LOC100048613	hypothetical protein			X				0	70	0	26	0	1.00			0	2	0	0	2	0
IPI00273232.6	Q7TNE3	LOC100048812	Sperm-associated antigen 7		X					0	227	17	0	0	0.97			2	0	0	2	0	0
IPI00653423.2		LOC100048832	Branched-chain-amino-acid aminotransferase				X			2	519	0	0	9		1.00	0	0	3	0	0	3	
IPI00673707.2		LOC633677	PREDICTED: similar to Bifunctional aminoacyl-tRNA synthetase		X	X	X			0	1470	3	6	17	1.00	1.00	1.00	3	5	16	3	5	16
IPI00673290.1		LOC634088	similar to Glyceraldehyde-3-phosphate dehydrogenase		X					0	165	18	0	0	0.97			2	0	0	2	0	0
IPI00468437.2	Q9CR47	LOC636306	Ribosome biogenesis protein NSA2 homolog		X		X			0	260	22	0	15	1.00	1.00	4	0	3	4	0	3	
IPI00662657.3		LOC640502	similar to UDP-N-acetylglucosamine pyrophosphorylase 1		X					0	587	12	0	0	0.99			3	0	0	3	0	0

IPI00661702.2		LOC641175	similar to Cdv3 protein	X		0	423	9	0	0	1.00		2	0	0	2	0	0		
IPI00828573.1	Q61784	LOC668715	L1Md-A13 repetitive sequence	X		0	357	18	0	0	1.00		6	0	0	5	0	0		
IPI00623776.3		LOC674678	similar to histone H4	X	X	X	0	158	37	40	33	1.00	1.00	1.00	12	18	7	10	15	6
IPI00753915.2		LOC674706	similar to Zinc finger protein 341	X		X	0	1076	4	0	3	1.00		1.00	2	0	2	2	0	2
IPI00138302.1		LOC674727	similar to ribosomal protein L38	X	X		0	70	50	53	0	1.00	1.00		6	7	0	6	7	0
IPI00890128.1		LOC676144	16 kDa protein	X	X		0	142	14	27	0	0.00	1.00		2	2	0	2	2	0
IPI00113394.5		LOC676847	similar to Rps15a protein	X	X	X	0	188	23	22	26	1.00	1.00	1.00	5	3	4	3	3	4
IPI00227451.1	Q8BZA9	LOC677429	Probable fructose-2,6-bisphosphatase TIGAR	X			1	269	13	0	0	1.00			2	0	0	2	0	0
IPI00319518.4	Q3V2D0	Lonp1	Lon protease homolog		X	X	2	953	0	23	9		1.00	1.00	0	11	4	0	10	4
IPI00221494.7	Q8BFW7	Lpp	Isoform 1 or 5 of Lipoma-preferred partner homolog	X		2DLC	0	613	7	0	0	0.97			2	0	0	2	0	0
IPI00279273.2	Q8K099	Lrit1	leucine-rich repeat, immunoglobulin-like and transmembrane domains 1			X	1	624	0	0	5			0.94	0	0	2	0	0	2
IPI00119787.4	A2API5	Lrp1b	Low density lipoprotein-related protein 1B			X	3	4630	0	0	2			0.98	0	0	8	0	0	8
IPI00349520.5	A2ARV4	Lrp2	Low-density lipoprotein receptor-related protein 2			X	2	4660	0	1	0		1.00		0	3	0	0	3	0
IPI00469307.2	P55302	Lrpap1	Alpha-2-macroglobulin receptor-associated protein	X			0	360	19	0	0	1.00			6	0	0	5	0	0
IPI00420706.4	Q6PB66	Lrpprc	Leucine-rich PPR motif-containing protein, mitochondrial		X	X	1	1392	0	28	3		1.00	1.00	0	28	4	0	27	4
IPI00474873.3	Q6EDY6	Lrrc16a	Leucine-rich repeat-containing protein 16A	X			0	1374	4	0	0	1.00			3	0	0	3	0	0
IPI00138089.4	Q505F5	Lrrc47	Leucine-rich repeat-containing protein 47	X	X	X	0	581	6	8	16	1.00	1.00	1.00	2	2	5	2	2	5
IPI00123281.1	Q922Q8	Lrrc59	Leucine-rich repeat-containing protein 59		X	X	1	307	0	17	25		1.00	1.00	0	4	5	0	4	5
IPI00654388.2	Q3UZ39	Lrrfp1	Isoform 1 of Leucine-rich repeat flightless- interacting protein 1	X		2DLC	0	729	9	0	0	1.00			3	0	0	3	0	0
IPI00659860.2	Q91WK0	Lrrfp2	Leucine-rich repeat flightless-interacting protein 2	X			0	722	5	0	0	1.00			2	0	0	2	0	0
IPI00225459.1	Q8BUI3	Lrwd1	Leucine-rich repeat and WD repeat- containing protein 1			X	0	648	0	0	10			0.98	0	0	3	0	0	3
IPI00330362.5	Q3UM18	Lsg1	Isoform 1 of Large subunit GTPase 1 homolog		X	1DE	0	644	0	3	0		0.96		0	2	0	0	2	0
IPI00121579.1	Q8VC85	Lsm1	U6 snRNA-associated Sm-like protein LSm1	X			0	133	26	0	0	1.00			2	0	0	2	0	0
IPI00172202.1	Q8K2F8	Lsm14a	Protein LSM14 homolog A	X			0	462	9	0	0	1.00			3	0	0	3	0	0
IPI00229470.2	Q8CGC4	Lsm14b	Protein LSM14 homolog B	X			0	385	8	0	0	0.99			2	0	0	2	0	0
IPI00136054.1	O35901	Lsm2	snRNP core protein SMX5		X		0	131	0	23	0		1.00		0	2	0	0	2	0
IPI00129873.1	P62313	Lsm6	U6 snRNA-associated Sm-like protein LSm6		X		0	80	0	33	0		1.00		0	3	0	0	3	0
IPI00410804.1	Q9CYI4	Luc7I	Isoform 1 of Putative RNA-binding protein Luc7-like 1	X		2DLC	0	371	20	0	0	1.00			5	0	0	5	0	0
IPI00380309.3	Q7TNC4	Luc7I2	Putative RNA-binding protein Luc7-like 2	X			0	392	16	0	0	1.00			6	0	0	5	0	0
IPI00122418.1	Q5SUF2-2	Luc7I3	Cisplatin resistance-associated overexpressed protein	X		X	0	491	12	0	5	1.00		1.00	4	0	2	4	0	2
IPI00322204.4	Q8R4U7	Luzp1	Leucine zipper protein 1	X			0	1068	12	0	0	1.00			9	0	0	8	0	0
IPI00113232.3	Q08288	Lyar	Cell growth-regulating nucleolar protein	X	X	X	0	388	24	8	6	1.00	1.00	1.00	6	3	2	6	3	2
IPI00130018.1	P97823	Lypla1	Acyl-protein thioesterase 1			X	1	230	0	0	22			1.00	0	0	3	0	0	3
IPI00173156.1	Q8K3C3	Lzic	Protein LZIC	X			0	190	14	0	0	1.00			3	0	0	3	0	0
IPI00848566.1	Q9QXZ0	Macf1	microtubule-actin crosslinking factor 1		X	X	1	5430	0	5	1		1.00	1.00	0	18	4	0	18	4
IPI00132692.1	Q9CQL1	Mago1b	Protein mago nashi homolog 1-related		X		0	146	0	25	0		1.00		0	3	0	0	3	0

IPI00606905.1	Q571K4	Map3k7ip3	Mitogen-activated protein kinase kinase 7-interacting protein 3	X					0	716	10	0	0	1.00		4	0	0	4	0	0	
IPI00130014.3	P97820	Map4k4	mitogen-activated protein kinase kinase kinase 4				X		1	1234	0	0	2	0.94	0	0	2	0	0	2		
IPI00119663.3	P63085	Mapk1	Mitogen-activated protein kinase 1				X		0	358	0	0	13	1.00	0	0	3	0	0	3		
IPI00117896.3	Q61166	Mapre1	Microtubule-associated protein RP/EB family member 1	X			X		0	268	15	0	14	1.00	1.00	4	0	2	3	0	2	
IPI00229534.5	P26645	Marcks	Myristoylated alanine-rich C-kinase substrate	X	X	X			0	309	24	12	9	1.00	1.00	1.00	3	2	2	3	2	2
IPI00281011.7	P28667	Marcks1	MARCKS-related protein	X			X		0	200	37	0	14	1.00	1.00	3	0	2	3	0	2	
IPI00461469.3	Q68FL6	Mars	Methionyl-tRNA synthetase, cytoplasmic				X	X	3	902	0	7	14	1.00	1.00	0	4	8	0	4	8	
IPI00454016.5	Q3THS6	Mat2a	S-adenosylmethionine synthetase	X	X	X			0	395	21	26	30	1.00	1.00	1.00	7	7	9	6	7	9
IPI00468802.5	Q99LB6	Mat2b	Methionine adenosyltransferase 2 subunit beta	X			X		1	334	18	0	0	1.00		3	0	0	3	0	0	
IPI00453826.2	Q8K310	Matr3	Matrin-3	X	X	X			0	846	14	12	20	1.00	1.00	1.00	7	6	10	7	6	10
IPI00131067.1	Q9Z2D8	Mbd3	Methyl-CpG-binding domain protein 3	X	X	X			0	285	10	22	17	1.00	1.00	1.00	2	3	2	2	3	2
IPI00124157.3	Q9WTZ2	Mbtps1	Membrane-bound transcription factor site-1 protease				X		2	1052	0	0	3		1.00	0	0	3	0	0	3	
IPI00170316.1	Q8K5B2	Mcf2	Multiple coagulation factor deficiency protein 2 homolog	X					0	145	12	0	0	1.00		2	0	0	2	0	0	
IPI00115902.2	O55142	mCG_1036414	60S ribosomal protein L35a	X			X		0	110	32	0	18	0.98	1.00	4	0	3	4	0	3	
IPI00222546.5	P67984	mCG_130059	60S ribosomal protein L22	X	X	X			0	128	23	51	39	0.98	1.00	1.00	2	4	3	2	4	3
IPI00323820.4	Q3UJN1	Mcm2	Putative uncharacterized protein	X	X	X			1	913	15	15	8	1.00	1.00	1.00	13	12	7	11	12	7
IPI00108338.1	P25206	Mcm3	DNA replication licensing factor MCM3	X	X	X			0	812	15	22	13	1.00	1.00	1.00	8	14	8	8	14	8
IPI00117016.1	P49717	Mcm4	DNA replication licensing factor MCM4	X	X	X			0	862	15	16	9	1.00	1.00	1.00	8	10	6	7	10	6
IPI00309398.6	Q52KC3	Mcm5	minichromosome maintenance deficient 5, cell division cycle 46	X	X	X			1	734	23	23	21	1.00	1.00	1.00	14	15	13	13	14	13
IPI00123881.1	P97311	Mcm6	DNA replication licensing factor MCM6	X	X	X			0	821	5	23	10	1.00	1.00	1.00	3	14	6	3	14	6
IPI00126396.2	Q3V122	Mcm7	Putative uncharacterized protein	X	X	X			0	720	10	35	17	1.00	1.00	1.00	4	18	9	4	17	9
IPI00753701.3	Q5PSV9	Mdc1	mediator of DNA damage checkpoint 1				X		0	1708	0	0	4		1.00	0	0	4	0	0	4	
IPI00336324.11	P14152	Mdh1	Malate dehydrogenase, cytoplasmic				X	X	1	334	0	28	22		1.00	1.00	0	8	5	0	8	5
IPI00323592.2	P08249	Mdh2	Malate dehydrogenase, mitochondrial				X	X	1	338	0	42	44		1.00	1.00	0	11	11	0	11	11
IPI00458039.3	A2ANY6	Mdn1	Midasin homolog				X		12	5589	0	9	0		1.00	0	37	0	0	37	0	
IPI00115977.1	Q99KE1	Me2	NAD-dependent malic enzyme, mitochondrial				X		3	589	0	6	0		0.98	0	2	0	0	2	0	
IPI00110388.2	Q2VPQ9-2	Meaf6	Chromatin modification-related protein MEAF6	X					0	192	19	0	0	1.00		4	0	0	4	0	0	
IPI00224399.1	Q8C1S0	Med19	Mediator of RNA polymerase II transcription subunit 19	X					0	244	20	0	0	1.00		4	0	0	2	0	0	
IPI00405351.1	Q8C611	Mesdc2	unnamed protein product	X					0	237	28	0	0	1.00		4	0	0	4	0	0	
IPI00272622.1	Q8BP48	Metap1	Methionine aminopeptidase 1				X		0	386	0	0	5		0.99	0	0	2	0	0	2	
IPI00272238.5	Q3UI33	Metap2	Methionine aminopeptidase	X					0	488	11	0	0	1.00		3	0	0	3	0	0	
IPI00228590.2	Q9CQU1	Mfap1b	Microfibrillar-associated protein 1	X					0	439	9	0	0	1.00		2	0	0	2	0	0	
IPI00124959.1	Q61769	Mki67	Ki-67 protein	X			X		0	2938	2	0	2	0.90	0.99	3	0	5	3	0	4	
IPI00225912.8	Q91VE6	Mki67ip	MKI67 FHA domain-interacting nucleolar phosphoprotein	X			X		0	317	30	0	10	1.00	1.00	9	0	4	8	0	4	
IPI00885322.1	Q9QZQ1	Mlit4	Afadin	X					2	1827	6	0	0	1.00		7	0	0	7	0	0	
IPI00314370.3	P51949	Mnat1	CDK-activating kinase assembly factor MAT1	X					0	309	17	0	0	1.00		4	0	0	4	0	0	
IPI00132323.6	Q8K396	Mnd1	Meiotic nuclear division protein 1 homolog	X					0	205	11	0	0	0.99		2	0	0	2	0	0	
IPI00830528.1	Q3UD86	Mov10	Putative uncharacterized protein	X	X	X			2	1004	13	8	9	1.00	1.00	1.00	7	6	6	7	6	6

IPI00402911.1	Q810V0	Mphosph10	U3 small nucleolar ribonucleoprotein protein MPP10		X		0	681	0	0	6		1.00	0	0	3	0	0	3
IPI00761693.5	Q8BVD5	Mpp7	Isoform 1 of MAGUK p55 subfamily member 7		X	2DLC	0	576	10	0	0	1.00		3	0	0	3	0	0
IPI00406030.2	Q5SWZ5	Mpprip	Myosin phosphatase Rho interacting protein		X		0	2269	1	0	0	0.99		1	0	0	1	0	0
IPI00132703.1	Q9CQL7	Mrfap1	MORF4 family-associated protein 1		X		0	125	36	0	0	1.00		6	0	0	3	0	0
IPI00885509.1	Q9CQT1	Mri1	Methylthioribose-1-phosphate isomerase		X		1	369	0	0	12		1.00	0	0	3	0	0	3
IPI00118237.2	Q99N96	Mrpl1	39S ribosomal protein L1, mitochondrial		X		0	336	15	0	0	1.00		3	0	0	3	0	0
IPI00132412.3	Q3TBW2	Mrpl10	39S ribosomal protein L10, mitochondrial		X		0	262	0	0	20		1.00	0	0	3	0	0	3
IPI00118963.1	Q9DB15	Mrpl12	39S ribosomal protein L12, mitochondrial		X		0	201	0	0	18		1.00	0	0	3	0	0	3
IPI00134011.1	Q9D1P0	Mrpl13	39S ribosomal protein L13, mitochondrial		X		0	178	0	0	15		1.00	0	0	3	0	0	3
IPI00118226.1	Q99N91	Mrpl34	39S ribosomal protein L34, mitochondrial		X		0	92	0	24	0	0.99		0	2	0	0	2	0
IPI00323669.3	Q9Z2Q5	Mrpl40	39S ribosomal protein L40, mitochondrial		X		0	206	20	0	0	1.00		2	0	0	2	0	0
IPI00153603.1	Q8R2L5	Mrps18c	28S ribosomal protein S18c, mitochondrial		X	X	0	143	0	0	10		0.97	0	0	2	0	0	2
IPI00754363.1	Q99LZ4	Mrps23	Mrps23 protein (Fragment)		X		0	210	15	0	0	1.00		2	0	0	2	0	0
IPI00108194.1	Q80ZS3	Mrps26	28S ribosomal protein S26, mitochondrial		X		0	200	0	10	0	1.00		0	2	0	0	2	0
IPI00110672.3	Q9CY16	Mrps28	28S ribosomal protein S28, mitochondrial		X		0	186	22	0	0	1.00		2	0	0	2	0	0
IPI00124828.1	Q61733	Mrps31	28S ribosomal protein S31, mitochondrial		X		0	384	16	0	0	1.00		4	0	0	4	0	0
IPI00222538.2	Q8BJZ4	Mrps35	28S ribosomal protein S35, mitochondrial		X		0	320	9	0	0	1.00		2	0	0	2	0	0
IPI00118196.1	Q99N87	Mrps5	28S ribosomal protein S5, mitochondrial		X		1	432	7	0	0	1.00		2	0	0	2	0	0
IPI00118158.1	P43247	Msh2	DNA mismatch repair protein Msh2		X	X	4	935	0	25	11	1.00	1.00	0	17	6	0	17	6
IPI00310173.2	Q6GTK8	Msh6	mutS homolog 6		X	X	4	1358	0	25	11	1.00	1.00	0	25	12	0	25	12
IPI00120924.1	Q920Q6	Msi2	RNA-binding protein Musashi homolog 2		X		2	346	9	0	0	1.00		2	0	0	2	0	0
IPI00110588.4	P26041	Msn	Moesin		X	X	0	577	15	14	11	1.00	1.00	7	8	6	6	8	6
IPI00853911.1	Q8K4B0	Mta1	Metastasis-associated protein MTA1		X		0	715	15	0	0	1.00		7	0	0	7	0	0
IPI00128230.1	Q9R190	Mta2	Metastasis-associated protein MTA2		X		0	668	6	0	0	0.99		3	0	0	3	0	0
IPI00125745.1	Q924K8	Mta3	Metastasis-associated protein MTA3		X		0	591	11	0	0	1.00		5	0	0	5	0	0
IPI00132096.3	Q9CQ65	Mtap	S-methyl-5'-thioadenosine phosphorylase		X	X	0	283	12	0	13	1.00	1.00	3	0	2	2	0	2
IPI00118075.1	P20357	Mtap2	Microtubule-associated protein 2		X		0	1828	3	0	0	1.00		3	0	0	3	0	0
IPI00848818.1	Q05BJ2	Mtap4	microtubule-associated protein 4		X		0	1125	19	0	0	1.00		16	0	0	12	0	0
IPI00282957.4	A2AJI0	Mtap7d1	MAP7 domain-containing protein 1		X		0	846	4	0	0	1.00		2	0	0	2	0	0
IPI00750596.1	Q9D050	Mtch2	Putative uncharacterized protein		X	X	2	312	0	14	9	1.00	1.00	0	3	2	0	3	2
IPI00330599.1	Q80WJ7	Mtdh	Protein LYRIC		X		1	579	0	0	8		1.00	0	0	2	0	0	2
IPI00122862.4	Q922D8	Mthfd1	C-1-tetrahydrofolate synthase, cytoplasmic		X	X	2	935	0	26	18	1.00	1.00	0	21	13	0	21	13
IPI00228113.5	Q3V3R1	Mthfd1l	Monofunctional C1-tetrahydrofolate synthase, mitochondrial		X	X	4	1024	0	22	5	1.00	1.00	0	18	5	0	18	5
IPI00228583.5	P62774	Mtpn	Myotrophin		X		0	118	20	0	0	1.00		2	0	0	2	0	0
IPI00132938.2	Q35682	Myadm	Myeloid-associated differentiation marker		X		6	320	0	0	8		1.00	0	0	2	0	0	2
IPI00331361.2	Q7TPV4	Mybbp1a	Myb-binding protein 1A		X	X	4	1344	0	44	35	1.00	1.00	0	44	37	0	42	36

IPI00608114.2	Q7TPH6	Mycbp2	pam, highwire, rpm 1			X		7	4746	0	0	3		1.00	0	0	8	0	0	8	
IPI00226891.1	Q8C854	Myef2	Myelin expression factor 2	X	X			1	591	4	4	0	0.99	1.00	2	2	0	2	2	0	
IPI00122392.1	Q9JK81	Myg1	UPF0160 protein MYG1, mitochondrial	X				0	380	19	0	0	1.00		5	0	0	5	0	0	
IPI00757312.1	Q3UH59	Myh10	Putative uncharacterized protein		X	X		2	2013	0	28	8		1.00	1.00	0	48	14	0	47	14
IPI00129404.1	Q02566	Myh6	Myosin-6	X				0	1938	3	0	0	1.00		4	0	0	4	0	0	
IPI00123181.4	Q8VDD5	Myh9	Myosin-9	X	X	X		1	1960	11	39	17	1.00	1.00	1.00	16	71	25	15	70	25
IPI00118120.1	Q99104	Myo5a	Myosin-Va			X		3	1853	0	0	2		0.91	0	0	4	0	0	4	
IPI00229766.1	Q9QY06-2	Myo9b	Myosin-IXb	X				4	2143	2	0	0	1.00		2	0	0	2	0	0	
IPI00111831.1	P70670	Naca	Nascent polypeptide-associated complex subunit alpha, muscle-specific form	X	X	X	2DLC	0	2187	4	3	1	1.00	1.00	1.00	6	4	2	6	4	2
IPI00114925.1	Q99J77	Nans	Putative uncharacterized protein	X				1	359	37	0	0	1.00		7	0	0	6	0	0	
IPI00123199.1	P28656	Nap111	Nucleosome assembly protein 1-like 1		X	X		0	391	0	30	22		1.00	1.00	0	6	6	0	6	6
IPI00881096.1	Q9CWX7	Napg	Gamma-soluble NSF attachment protein	X		X		0	353	7	0	6	1.00	0.99	2	0	2	2	0	2	
IPI00387212.1	Q80UM3	Narg1	NMDA receptor-regulated protein 1	X	X	X		0	865	3	19	5	1.00	1.00	1.00	2	12	4	2	12	4
IPI00223415.4	Q8BP47	Nars	Asparaginyl-tRNA synthetase, cytoplasmic nuclear autoantigenic sperm protein isoform 2		X	X		0	559	0	8	6		1.00	1.00	0	4	2	0	4	2
IPI00830976.1	B1AU75	Nasp	Nuclear autoantigenic sperm protein isoform 2	X	X	X	2DLC, UF	0	773	39	43	22	1.00	1.00	1.00	16	20	14	15	20	13
IPI00276866.1	Q8K224	Nat10	N-acetyltransferase 10		X	X		2	1024	0	8	5		1.00	0.97	0	5	3	0	5	3
IPI00400163.3	Q6PGB6-4	Nat13	N-acetyltransferase NAT13		X			0	175	0	12	0		1.00		0	2	0	0	2	0
IPI00172226.3	Q8K2Z4-2	Ncapd2	Condensin complex subunit 1	X	X			5	1404	0	9	7		1.00	1.00	0	8	7	0	8	7
IPI00122202.5	B2RQA7	Ncapg	non-SMC condensin I complex, subunit G		X			3	1004	0	5	0		1.00		0	4	0	0	4	0
IPI00317794.5	P09405	Ncl	Nucleolin	X	X	X		0	707	12	33	25	1.00	1.00	1.00	6	25	18	6	24	18
IPI00113730.3	Q05BA5	Ncoa3	nuclear receptor coactivator 3	X				0	1403	5	0	0	0.99		3	0	0	3	0	0	
IPI00274795.4	Q5RIM6	Ncor1	Nuclear receptor co-repressor 1	X				0	2454	3	0	0	0.99		4	0	0	3	0	0	
IPI00553262.1	P03921	ND5	NADH-ubiquinone oxidoreductase chain 5 isoform 1 of Nuclear distribution protein nudE homolog 1		X			14	607	0	5	0		1.00		0	2	0	0	2	0
IPI00112460.1	Q9CZA6	Nde1	nudE homolog 1	X			2DLC	0	344	19	0	0	1.00		5	0	0	5	0	0	
IPI00131850.3	Q9CPR8	Ndn12	Melanoma-associated antigen G1	X				1	279	11	0	0	1.00		2	0	0	2	0	0	
IPI00315302.5	Q9CQ75	Ndufa2	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 2		X			0	99	0	40	0		1.00		0	5	0	0	5	0
IPI00132216.1	Q9CQ91	Ndufa3	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 3		X			1	84	0	21	0	0.99		0	2	0	0	2	0	
IPI00125929.2	Q62425	Ndufa4	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 4		X			0	82	0	48	0		1.00		0	5	0	0	5	0
IPI00308882.4	Q91VD9	Ndufs1	NADH-ubiquinone oxidoreductase 75 kDa subunit, mitochondrial		X			1	727	0	29	0		1.00		0	14	0	0	13	0
IPI00128345.2	P52503	Ndufs6	NADH dehydrogenase [ubiquinone] iron-sulfur protein 6, mitochondrial		X			0	116	0	41	0		1.00		0	3	0	0	3	0
IPI00462445.2	P46935	Nedd4	E3 ubiquitin-protein ligase NEDD4	X	X	X		1	887	5	2	18	1.00	1.00	1.00	3	2	10	3	2	10
IPI00127021.1	P29595	Nedd8	NEDD8		X			0	81	0	42	0	0.97		0	3	0	0	3	0	
IPI00132005.1	Q9CQ45	Nenf	Neudesin	X				0	171	19	0	0	1.00		2	0	0	2	0	0	
IPI00453692.4	Q6P5H2	Nes	Isoform 1 of Nestin	X			2DLC	0	1864	3	0	0	0.99		2	0	0	2	0	0	
IPI00123537.3	B1AY10	Nfx1	Isoform 1 of Transcriptional repressor NF-X1	X			2DLC	0	1114	3	0	0	1.00		2	0	0	2	0	0	
IPI00119201.1	Q9DB96	Ngdn	Neuroguidin	X				0	315	9	0	0	1.00		3	0	0	3	0	0	
IPI00310568.2	Q99KS2	Ngrn	neugrin	X				0	293	20	0	0	1.00		3	0	0	3	0	0	
IPI00133555.4	Q9CXX8	Nip7	60S ribosome subunit biogenesis protein NIP7 homolog			X		0	180	0	0	32		0.99	0	0	4	0	0	4	
IPI00421052.1	Q6KCD5	Nipbl	Nipped-B-like protein	X				4	2798	2	0	0	1.00		3	0	0	3	0	0	
IPI00119945.1	Q9JHW2	Nit2	Nitrilase homolog 2	X				0	276	10	0	0	1.00		2	0	0	2	0	0	

IPI00228608.1	Q8CCN1	Nlrp10	NACHT, LRR and PYD domains-containing protein 10			X			0	673	0	0	6		0.94	0	0	2	0	0	2	
IPI00881976.1	Q99L48	Nmd3	Isoform 1 of 60S ribosomal export protein NMD3	X			2DLC		0	503	7	0	0	0.99		2	0	0	2	0	0	
IPI00127417.1	Q01768	Nme2	Nucleoside diphosphate kinase B	X	X	X			0	152	34	69	68	1.00	1.00	1.00	6	10	10	3	9	8
IPI00224128.7	O70310	Nmt1	Glycylpeptide N-tetradecanoyltransferase 1	X	X				0	496	25	14	0	1.00	1.00		10	4	0	9	4	0
IPI00117252.1	O70311	Nmt2	Glycylpeptide N-tetradecanoyltransferase 2	X					0	529	10	0	0	1.00		5	0	0	4	0	0	
IPI00125382.2	Q9VW70	Noc2l	Nucleolar complex protein 2 homolog		X	X			4	747	0	5	8	1.00	1.00	0	2	4	0	2	4	
IPI00330054.1	Q8BHY2	Noc4l	Nucleolar complex protein 4 homolog		X				3	516	0	11	0	1.00		0	2	0	0	2	0	
IPI00153791.2	Q8BJW5	Nol11	Nucleolar protein 11			X			3	723	0	0	12		1.00	0	0	5	0	0	5	
IPI00307884.1	Q8BG17	Nol12	Nucleolar protein 12		X				0	217	31	0	0	1.00		4	0	0	3	0	0	
IPI00353796.4	Q8R5K4	Nol6	Nucleolar protein 6			X	X		1	1152	0	5	5	1.00	1.00	0	3	3	0	3	3	
IPI00318561.1	Q9D7Z3	Nol7	Nucleolar protein 7				X		0	254	0	0	10		1.00	0	0	2	0	0	2	
IPI00720058.4		Nolc1	Nucleolar and coiled-body phosphoprotein 1			X	X		0	702	0	5	7	1.00	1.00	0	3	6	0	3	6	
IPI00222429.6	Q6GQT9	Nomo1	nodal modulator 1		X				3	1214	0	6	0	1.00		0	3	0	0	3	0	
IPI00320016.7	Q99K48	Nono	Isoform 1 of Non-POU domain-containing octamer-binding protein	X	X	X	2DLC, UF		0	473	43	11	19	1.00	1.00	1.00	25	4	5	15	4	5
IPI00458704.2	Q9CPT5	Nop16	Nucleolar protein 16	X					0	178	44	0	0	1.00		9	0	0	7	0	0	
IPI00311453.5		Nop2	nucleolar protein 1	X	X	X			0	794	11	7	12	1.00	0.99	1.00	4	3	7	4	3	7
IPI00318048.5	Q9D6Z1	Nop56	Nucleolar protein 56	X	X	X			1	580	7	28	24	1.00	1.00	1.00	3	12	11	3	12	11
IPI00463468.3	Q6DFW4	Nop58	Nucleolar protein 58	X	X	X			1	536	9	18	23	1.00	1.00	1.00	3	7	9	3	7	9
IPI00130000.1	Q11011	Npepps	Puromycin-sensitive aminopeptidase		X	X			2	920	0	12	11		1.00	1.00	0	7	7	0	7	7
IPI00127415.1	Q61937	Npm1	Nucleophosmin			X	X		0	292	0	38	34		1.00	1.00	0	16	9	0	12	8
IPI00553335.1	Q8VCQ3	Nrbf2	Nuclear receptor-binding factor 2		X				0	287	15	0	0	1.00		3	0	0	3	0	0	
IPI00648408.1	A2A9Q2	Nrd1	Nardilysin, N-arginine dibasic convertase, NRD convertase 1			X			1	1229	0	0	5		0.99	0	0	3	0	0	3	
IPI00131111.2	Q96L73	Nsd1	nuclear receptor-binding SET-domain protein 1	X					0	2691	5	0	0	1.00		9	0	0	9	0	0	
IPI00656325.2	P46460	Nsf	Vesicle-fusing ATPase			X	X		1	744	0	16	3		1.00	1.00	0	8	2	0	8	2
IPI00387232.1	Q9CZ44-3	Nsfl1c	NSFL1 cofactor p47	X	X	X			0	372	48	7	10	1.00	1.00	1.00	16	2	3	13	2	3
IPI00133614.5	Q91VT1	Nsmce2	E3 SUMO-protein ligase NSE2	X					0	247	13	0	0	0.99		2	0	0	2	0	0	
IPI00228804.5	Q1HFZ0	Nsun2	tRNA (cytosine-5-)-methyltransferase NSUN2	X	X	X			0	782	33	7	11	1.00	1.00	1.00	14	4	6	14	4	6
IPI00132314.1	Q02819	Nucb1	Nucleobindin-1	X					0	459	27	0	0	1.00		8	0	0	8	0	0	
IPI00309704.1	P81117	Nucb2	Nucleobindin-2	X					0	420	7	0	0	1.00		2	0	0	2	0	0	
IPI00132942.1	Q35685	Nudc	Nuclear migration protein nudC	X	X	X			0	332	33	28	22	1.00	1.00	1.00	12	9	6	10	9	6
IPI00461281.2	Q9CQ48	Nudcd2	NudC domain-containing protein 2	X					0	157	22	0	0	1.00		2	0	0	2	0	0	
IPI00132473.3	Q9CQF3	Nudt21	Cleavage and polyadenylation specificity factor subunit 5			X	X		0	227	0	36	21		1.00	1.00	0	6	2	0	6	2
IPI00123572.1	Q9JKX6	Nudt5	ADP-sugar pyrophosphatase	X					0	218	21	0	0	1.00		6	0	0	5	0	0	
IPI00405390.1	Q8BVU5	Nudt9	ADP-ribose pyrophosphatase, mitochondrial	X					0	350	7	0	0	1.00		2	0	0	2	0	0	
IPI00330146.6	Q5F2E7	Nufip2	Isoform 1 of Nuclear fragile X mental retardation-interacting protein 2	X			2DLC		0	692	22	0	0	1.00		7	0	0	7	0	0	
IPI00263048.1	Q80Y35	Numa1	Nuclear mitotic apparatus protein 1	X	X	X			0	2094	2	9	7	1.00	1.00	1.00	3	14	10	3	14	10
IPI00320303.1	Q8R0G9	Nup133	Nuclear pore complex protein Nup133			X			0	1155	0	0	9		1.00	0	0	5	0	0	5	
IPI00330624.1	Q80WR0	Nup153	Nucleoporin 153	X		X			0	1462	16	0	3	1.00		1.00	11	0	3	11	0	3
IPI00453821.2	Q99P88	Nup155	Nuclear pore complex protein Nup155		X	X			0	1391	0	5	4		1.00	1.00	0	5	3	0	5	3
IPI00129535.1	Q9Z0W3	Nup160	Nuclear pore complex protein Nup160			X			1	1402	0	0	6		0.95	0	0	4	0	0	4	
IPI00420602.3	Q6ZQH8	Nup188	Nucleoporin NUP188 homolog			X			10	1759	0	4	0		1.00	0	4	0	0	4	0	
IPI00677736.2	Q9D6C1	Nup205	Nucleoporin 205		X				2	611	0	6	0		1.00	0	3	0	0	3	0	
IPI00229722.3	Q80U93	Nup214	Nuclear pore complex protein Nup214	X					3	2085	4	0	0	1.00		4	0	0	4	0	0	
IPI00177202.1	P59235	Nup43	Nucleoporin Nup43	X		X			0	380	17	0	5	1.00		1.00	4	0	2	4	0	2
IPI00120572.3	Q9JIH2	Nup50	Nucleoporin 50 kDa	X					0	466	32	0	0	1.00		9	0	0	9	0	0	
IPI00225192.1	Q8BTS4	Nup54	Nucleoporin p54	X					0	510	14	0	0	1.00		4	0	0	4	0	0	

IPI00139994.1	Q63850	Nup62	Nuclear pore glycoprotein p62		X					1	526	9	0	0	1.00		3	0	0	3	0	0
IPI00461532.4	Q8R480	Nup85	Nucleoporin NUP85			X				1	656	0	5	0	1.00	1.00	0	2	0	0	2	0
IPI00229021.1	Q8CEC0	Nup88	Nuclear pore complex protein Nup88				X			0	753	0	0	5		1.00	0	0	2	0	0	2
IPI00222307.1	Q8BJ71	Nup93	Isoform 1 of Nuclear pore complex protein Nup93			X	X	UF		1	819	0	5	5	1.00	0.99	0	2	2	0	2	2
IPI00464141.2	Q6PFD9	Nup98	Nucleoporin 98		X					0	1187	15	0	0	1.00		13	0	0	10	0	0
IPI00224693.2	Q9ERH4	Nusap1	Isoform 1 of Nucleolar and spindle-associated protein 1		X			2DLC		0	427	9	0	0	1.00		2	0	0	2	0	0
IPI00321884.1	Q9DBY8	Nvl	Nuclear valosin-containing protein-like				X			0	855	0	0	7		1.00	0	0	3	0	0	3
IPI00115588.3	Q99JX7	Nxf1	Nuclear RNA export factor 1		X	X				0	618	7	6	0	0.94	1.00	3	2	0	3	2	0
IPI00133608.3	Q9CRD0	Ociad1	OCIA domain-containing protein 1				X			1	247	0	0	11		1.00	0	0	2	0	0	2
IPI00845652.1	Q60597-3	Ogdh	Isoform 1 or 3 of 2-oxoglutarate dehydrogenase E1 component, mitochondrial			X	X	1DE		1	1038	0	15	7	1.00	1.00	0	12	4	0	12	4
IPI00342603.7		Ogdhl	oxoglutarate dehydrogenase-like			X				1	1029	0	8	0	1.00		0	7	0	0	7	0
IPI00111981.1	Q9CZ30	Ola1	Isoform 1 of Obg-like ATPase 1		X	X	X	2DLC		1	396	27	8	8	1.00	1.00	1.00	9	3	3	8	3
IPI00380674.1	Q7TS44	Olfir192	Olfactory receptor Olfir192				X			7	307	0	0	3		0.90	0	0	2	0	0	2
IPI00881883.2		Olfir286	olfactory receptor 286				X			5	323	0	0	21		0.98	0	0	3	0	0	3
IPI00403336.4	P58281-2	Opa1	Dynamin-like 120 kDa protein, mitochondrial				X			1	997	0	4	0	1.00		0	3	0	0	3	0
IPI00165817.3	Q3U473	ORF19	Putative uncharacterized protein		X					0	506	6	0	0	1.00		2	0	0	2	0	0
IPI00845721.1	Q8R1N3	657	Novel KRAB box domain containing protein			X				0	573	6	0	0	0.98		2	0	0	2	0	0
IPI00169908.4	A2AP24	Otd6b	OTU domain containing 6B		X					0	325	10	0	0	1.00		2	0	0	2	0	0
IPI00223738.2	Q6P9R2	Oxsr1	Serine/threonine-protein kinase OSR1		X		X			2	527	5	0	5	1.00	1.00	2	0	3	2	0	3
IPI00122815.3	Q922C8	P4hb	Putative uncharacterized protein			X	X			0	509	0	28	22	1.00	1.00	0	10	9	0	10	9
IPI00119305.3	P50580	Pa2g4	Proliferation-associated protein 2G4		X	X	X			1	394	40	43	25	1.00	1.00	1.00	9	12	9	9	12
IPI00124287.1	P29341	Pabpc1	Polyadenylate-binding protein 1		X	X	X			0	636	32	35	28	1.00	1.00	1.00	20	25	15	16	21
IPI00120954.2	Q62029	Pabpc2	poly A binding protein, cytoplasmic 2		X					0	628	6	0	0	1.00		5	0	0	5	0	0
IPI00420950.3	Q6PHQ9	Pabpc4	MCG5546		X		X			0	660	13	0	12	0.00	1.00	8	0	6	5	0	6
IPI00136169.1	Q8CCS6	Pabpn1	Polyadenylate-binding protein 2		X					0	302	15	0	0	1.00		6	0	0	4	0	0
IPI00125880.1	Q9WVE8	Pacsin2	Protein kinase C and casein kinase substrate in neurons protein 2		X					0	486	6	0	0	1.00		2	0	0	2	0	0
IPI00319933.4	Q99JB8	Pacsin3	Protein kinase C and casein kinase II substrate protein 3		X					0	424	6	0	0	1.00		2	0	0	2	0	0
IPI00309207.5	P63005	Pafah1b1	Platelet-activating factor acetylhydrolase IB subunit alpha				X			0	410	0	0	4		0.99	0	0	2	0	0	2
IPI00624863.1	Q9CQ38	Paics	Phosphoribosylaminoimidazole carboxylase, phosphoribosylaminoribosylaminoimidazole, succinocarboxamide synthetase			X	X			1	425	0	43	29	1.00	1.00	0	13	7	0	13	7
IPI00132993.1	O88643	Pak1	Serine/threonine-protein kinase PAK 1		X					0	545	8	0	0	0.96		2	0	0	2	0	0
IPI00120790.2	Q9DCE5	Pak1ip1	p21-activated protein kinase-interacting protein 1			X				0	382	0	5	0	0.96		0	2	0	0	2	0
IPI00229884.1	Q8CIN4	Pak2	Serine/threonine-protein kinase PAK 2		X					0	524	11	0	0	1.00		3	0	0	3	0	0
IPI00858000.1	Q9ET54	Palld	Palladin				X			0	1408	0	0	3		1.00	0	0	2	0	0	2
IPI00117264.1	Q99LX0	Park7	Protein DJ-1		X	X	X			1	189	77	23	41	1.00	1.00	1.00	11	3	4	10	3
IPI00139168.2	Q3TF18	Parp1	Putative uncharacterized protein		X	X	X			0	1014	8	26	14	1.00	1.00	1.00	6	19	12	6	19
IPI00112473.2	P11103	Parp1	Isoform Long of Poly [ADP-ribose] polymerase 1		X	X		2DLC, 1DE		0	1013	8	17	0	1.00	1.00	5	12	0	5	12	0
IPI00551075.4	Q2EMV9	Parp14	Isoform 1 of Poly [ADP-ribose] polymerase 14				X	UF		1	1817	0	0	1		0.99	0	0	2	0	0	2
IPI00354432.4	Q925B0	Pawr	Isoform 1 of PRKC apoptosis WT1 regulator protein		X			2DLC		0	333	21	0	0	1.00		5	0	0	5	0	0
IPI00461676.5	Q8BSQ9	Pbrm1	polybromo 1		X					0	1704	4	0	0	0.99		3	0	0	3	0	0
IPI00128904.1	P60335	Pcbp1	Poly(rC)-binding protein 1		X	X	X			1	356	22	37	36	1.00	1.00	1.00	5	9	9	4	9
IPI00127707.1	Q61990	Pcbp2	Poly(rC)-binding protein 2		X	X	X			1	362	11	24	23	1.00	1.00	1.00	3	8	7	2	8

IPI00356667.4	Q5HZI5	Pcdh17	Protocadherin 17				X		1	1157	0	0	5	0.96	0	0	2	0	0	2		
IPI00223060.1	Q8BH04	Pck2	mitochondrial phosphoenolpyruvate carboxykinase 2			X			0	667	0	8	0	1.00	0	3	0	0	3	0		
IPI00752192.1	Q9QYX7-4	Pclo	Protein piccolo				X		3	5177	0	0	2	0.90	0	0	6	0	0	6		
IPI00113870.1	P17918	Pcna	Proliferating cell nuclear antigen			X	X		0	261	0	62	33	1.00	1.00	0	11	7	0	11	7	
IPI00457623.3	P48725	Pcnt	pericentrin				X		2	2916	0	0	2	0.98	0	0	6	0	0	6		
IPI00115490.1	P49586	Pcylt1a	Choline-phosphate cytidylyltransferase A			X			0	367	10	0	0	0.99		2	0	0	2	0	0	
IPI00551454.3	Q6NS46	Pdcd11	Protein RRP5 homolog			X	X	X	5	1862	5	9	7	1.00	1.00	1.00	6	10	10	6	10	9
IPI00885252.1	P56812	Pdcd5	Programmed cell death protein 5			X			0	205	23	0	0	1.00		5	0	0	4	0	0	
IPI00337893.2	P35486	Pdha1	Pyruvate dehydrogenase E1 component subunit alpha, somatic form, mitochondrial			X	X	X	0	390	8	7	12	1.00	1.00	0.98	2	3	3	2	3	3
IPI00132042.1	Q9D051	Pdhb	Pyruvate dehydrogenase E1 component subunit beta, mitochondrial				X		1	359	0	6	0	1.00		0	2	0	0	2	0	
IPI00230108.6	P27773	Pdia3	Protein disulfide-isomerase A3			X	X	X	1	505	40	15	20	1.00	1.00	1.00	19	5	9	18	5	9
IPI00271951.5	Q3TT79	Pdia4	protein disulfide isomerase A4				X	X	0	641	0	6	5	1.00	1.00	0	4	3	0	4	3	
IPI00122362.1	Q921X9	Pdia5	Protein disulfide-isomerase A5			X			0	517	7	0	0	0.96		2	0	0	2	0	0	
IPI00222496.3	Q3TML0	Pdia6	Putative uncharacterized protein			X	X	X	0	445	22	7	22	1.00	1.00	1.00	7	2	6	7	2	6
IPI00309768.7	O70400	Pdlim1	PDZ and LIM domain protein 1			X		X	0	327	20	0	17	1.00	1.00	4	0	4	4	0	3	
IPI00845638.1	Q4VA53-3	Pds5b	Sister chromatid cohesion protein PDS5 homolog B				X		1	1448	0	4	0	1.00		0	3	0	0	3	0	
IPI00112676.1	Q9CZG9	Pdzd11	PDZ domain-containing protein 11			X			0	140	47	0	0	1.00		3	0	0	3	0	0	
IPI00121013.1	Q62048	Pea15a	Isoform 1 of Astrocytic phosphoprotein PEA-15			X		2DLC	0	130	37	0	0	1.00		4	0	0	4	0	0	
IPI00137730.7	P70296	Pebp1	Phosphatidylethanolamine-binding protein 1			X	X	X	0	187	41	40	32	1.00	1.00	1.00	6	4	4	5	4	4
IPI00321597.6	Q9DBD5	Pelp1	Proline-, glutamic acid- and leucine-rich protein 1				X	X	1	1123	0	9	9	1.00	1.00	0	6	6	0	6	6	
IPI00620167.2	Q5SQ20	Pes1	Pescadillo homolog 1, containing BRCT domain				X	X	1	588	0	5	9	0.97	1.00	0	3	4	0	3	4	
IPI00461329.3	Q9D0K1	Pex13	Peroxisomal membrane protein PEX13				X		3	405	0	0	8	0.96		0	0	2	0	0	2	
IPI00265406.3	Q5SUR0	Pfas	Phosphoribosylformylglycinamide synthase			X	X	X	2	1337	4	10	13	1.00	1.00	1.00	3	6	9	3	6	9
IPI00132485.2	Q9CWM4	Pfdn1	Prefoldin subunit 1			X			0	122	42	0	0	1.00		5	0	0	5	0	0	
IPI00119545.2	O70591	Pfdn2	Prefoldin subunit 2			X	X	X	0	154	36	20	17	1.00	1.00	1.00	5	2	2	4	2	2
IPI00378557.3	Q3UWL8	Pfdn4	Prefoldin 4			X			0	134	34	0	0	1.00		4	0	0	4	0	0	
IPI00554862.2	P12382	Pfkl	6-phosphofructokinase, liver type				X	X	3	780	0	23	12	1.00	1.00	0	12	6	0	11	6	
IPI00124444.1	Q9WUA3	Pfkp	6-phosphofructokinase type C				X		2	784	0	6	0	1.00		0	4	0	0	3	0	
IPI00224740.6	P62962	Pfn1	Profilin-1			X	X	X	0	140	37	66	61	1.00	1.00	1.00	5	10	8	4	8	7
IPI00457898.3	Q9DBJ1	Pgam1	Phosphoglycerate mutase 1			X	X	X	0	254	25	69	62	0.99	1.00	1.00	3	16	10	3	14	10
IPI00466919.7	Q9DCD0	Pgd	6-phosphogluconate dehydrogenase, decarboxylating				X	X	3	483	0	9	11	1.00	1.00	0	3	4	0	3	4	
IPI00555069.3	P09411	Pgk1	Phosphoglycerate kinase 1			X	X	X	1	417	13	66	50	1.00	1.00	1.00	3	22	16	3	21	15
IPI00132080.1	Q9CQ60	Pgls	6-phosphogluconolactonase				X		0	257	0	0	19	1.00		1.00	0	0	2	0	0	2
IPI00830261.1	B1AVP0	Phactr2	Phosphatase and actin regulator 2					X	0	632	0	0	6	0.95		0	0	3	0	0	3	
IPI00133440.1	P67778	Phb	Prohibitin				X	X	0	272	0	69	45	1.00	1.00	0	14	9	0	14	9	
IPI00321718.4	O35129	Phb2	Prohibitin-2			X	X	X	0	299	24	50	24	1.00	1.00	1.00	5	13	8	4	12	8
IPI00225961.5	Q61753	Phgdh	D-3-phosphoglycerate dehydrogenase				X	X	0	533	0	18	15	1.00	1.00	0	7	5	0	7	5	
IPI00264501.8	Q7M6Y3	Picalm	Phosphatidylinositol-binding clathrin assembly protein				X	X	1	660	0	7	13	1.00	1.00	0	2	4	0	2	4	
IPI00115695.1	O70167	Pik3c2g	Isoform 1 of Phosphatidylinositol-4-phosphate 3-kinase C2 domain-containing gamma polypeptide				X	1DE	1	1506	0	2	0	0.92		0	2	0	0	2	0	
IPI00336318.1	Q80X14	Pip4k2b	Phosphatidylinositol-5-phosphate 4-kinase type-2 beta			X			0	416	7	0	0	1.00		2	0	0	2	0	0	
IPI00170126.4	Q8K411	Pitrm1	Presequence protease, mitochondrial				X	X	0	1036	0	8	5	1.00	1.00	0	4	3	0	4	3	

IPI00407130.4	P52480	Pkm2	Isoform M2 of Pyruvate kinase isozymes M1/M2	X	X	X	UF	0	531	43	69	49	1.00	1.00	1.00	21	41	24	20	35	23
IPI00626385.4	Q9QXS1	Plec1	Plectin		X	X		1	4691	0	3	2	1.00	1.00	1.00	0	9	9	0	9	9
IPI00624550.4	Q3UIL6-2	Plekha7	Isoform 2 of Plectstrin homology domain-containing family A member 7	X			2DLC	0	1266	11	0	0	1.00			8	0	0	8	0	0
IPI00319270.2	Q9DBG5	Plin3	Mannose-6-phosphate receptor-binding protein 1		X	X		0	437	0	10	21	1.00	1.00	1.00	0	3	5	0	3	5
IPI00344681.2	Q3V0K9	Pls1	Plastin-1	X				2	630	6	0	0	1.00			2	0	0	2	0	0
IPI00133709.5	Q9D1G2	Pmvk	Phosphomevalonate kinase			X		0	192	0	0	11		0.95	1.00	0	0	2	0	0	2
IPI00785231.1	Q3TUQ5	Pnn	pinin		X			0	726	0	3	0	0.98	1.00	1.00	0	2	0	0	2	0
IPI00131909.1	Q9CPS7	Pno1	RNA-binding protein PNO1	X	X			1	248	26	0	23	1.00	1.00	1.00	5	0	5	5	0	5
IPI00315452.5	P23492	Pnp1	Purine nucleoside phosphorylase		X	X		1	289	0	18	24	1.00	1.00	1.00	0	4	5	0	4	5
IPI00135996.4	Q8K4L4	Pof1b	Protein POF1B	X				0	593	3	0	0	0.99	1.00	1.00	2	0	0	2	0	0
IPI00321912.2	Q8K202	Polr1e	DNA-directed RNA polymerase I subunit RPA49	X				1	482	5	0	0	0.97	1.00	1.00	2	0	0	2	0	0
IPI00136207.6	P08775	Polr2a	DNA-directed RNA polymerase II subunit RPB1		X			1	1970	0	5	0	1.00	1.00	1.00	0	8	0	0	8	0
IPI00268215.1	Q9D7M8	Polr2d	DNA-directed RNA polymerase II subunit RPB4	X				0	142	49	0	0	1.00	1.00	1.00	8	0	0	6	0	0
IPI00124284.3	Q923G2	Polr2h	DNA-directed RNA polymerases I, II, and III subunit RPABC3		X			0	150	0	27	0	1.00	1.00	1.00	0	2	0	0	2	0
IPI00169797.1	Q8K205	Pop1	Processing of 1, ribonuclease P/MRP family	X				2	1045	4	0	0	0.99	1.00	1.00	2	0	0	2	0	0
IPI00117218.3	P20263	Pou5f1	POU domain, class 5, transcription factor 1			X		0	352	0	0	13	1.00	1.00	1.00	0	0	4	0	0	4
IPI00110684.1	Q9D819	Ppa1	Inorganic pyrophosphatase	X	X	X		0	289	39	28	18	1.00	1.00	1.00	10	5	5	9	5	5
IPI00127050.1	Q91VM9	Ppa2	Isoform 1 of Inorganic pyrophosphatase 2, mitochondrial	X			2DLC	0	330	13	0	0	1.00	1.00	1.00	3	0	0	3	0	0
IPI00130510.1	Q91YU8	Ppan	Suppressor of SWI4 1 homolog	X		X		0	470	16	0	7	1.00	1.00	1.00	5	0	4	5	0	2
IPI00896602.1	B2RXQ2	Ppfia1	Ppfia1 protein	X				2	1266	4	0	0	1.00	1.00	1.00	3	0	0	3	0	0
IPI00554989.3	Q9CZK9	Ppia	Peptidyl-prolyl cis-trans isomerase	X	X	X		0	167	40	52	47	1.00	1.00	1.00	13	12	7	9	9	6
IPI00135686.2	P24369	Ppib	Peptidyl-prolyl cis-trans isomerase B	X	X	X		0	216	45	19	11	1.00	1.00	1.00	11	3	2	11	3	2
IPI00130240.1	P30412	Ppic	Peptidyl-prolyl cis-trans isomerase C	X				0	212	17	0	0	1.00	1.00	1.00	4	0	0	4	0	0
IPI00132966.3	Q9CR16	Ppid	40 kDa peptidyl-prolyl cis-trans isomerase	X	X	X		0	370	42	27	12	1.00	1.00	1.00	15	9	4	12	9	4
IPI00111343.1	Q9QZH3	Ppie	Peptidyl-prolyl cis-trans isomerase E	X				0	301	27	0	0	1.00	1.00	1.00	4	0	0	4	0	0
IPI00457532.2	Q9D6L8	Ppil3	Isoform 1 of Peptidyl-prolyl cis-trans isomerase-like 3	X			2DLC	0	161	12	0	0	1.00	1.00	1.00	2	0	0	2	0	0
IPI00130185.1	P62137	Ppp1ca	Serine/threonine-protein phosphatase PP1-alpha catalytic subunit	X	X	X		0	330	14	16	26	1.00	1.00	1.00	3	4	6	3	4	6
IPI00330483.1	Q80W00	Ppp1r10	Serine/threonine-protein phosphatase 1 regulatory subunit 10	X				0	888	6	0	0	1.00	1.00	1.00	4	0	0	4	0	0
IPI00623545.2	Q62084	Ppp1r14b	Protein phosphatase 1 regulatory subunit 14B	X				0	147	26	0	0	1.00	1.00	1.00	3	0	0	3	0	0
IPI00112721.1	Q9ERT9	Ppp1r1a	Protein phosphatase 1 regulatory subunit 1A	X				0	171	28	0	0	1.00	1.00	1.00	4	0	0	3	0	0
IPI00129319.3	Q3UM45	Ppp1r7	Protein phosphatase 1 regulatory subunit 7	X		X		0	361	43	0	10	1.00	1.00	1.00	12	0	3	10	0	3
IPI00153750.1	Q8R3G1	Ppp1r8	Nuclear inhibitor of protein phosphatase 1	X				0	351	34	0	0	1.00	1.00	1.00	9	0	0	9	0	0
IPI00120374.1	P63330	Ppp2ca	Serine/threonine-protein phosphatase 2A catalytic subunit	X				0	309	10	0	0	0.93	1.00	1.00	2	0	0	2	0	0
IPI00310091.8	Q76MZ3	Ppp2r1a	Serine/threonine-protein phosphatase 2A 65 kDa regulatory subunit A alpha isoform		X	X		0	589	0	20	15	1.00	1.00	1.00	0	8	6	0	8	6
IPI00222306.5	Q8BIX1	Ppp2r1b	Putative uncharacterized protein		X	X		0	694	0	6	10	1.00	1.00	1.00	0	3	4	0	3	4

IPI00880817.1	Q925E7	Ppp2r2d	Serine/threonine-protein phosphatase 2A 55 kDa regulatory subunit B delta isoform	X		0	457	5	0	0	1.00		2	0	0	2	0	0			
IPI00118723.3	P58389	Ppp2r4	Serine/threonine-protein phosphatase 2A regulatory subunit B'		X	1	323	0	0	22		1.00	0	0	4	0	0	4			
IPI00756703.1	P63328-2	Ppp3ca	Serine/threonine-protein phosphatase 2B catalytic subunit alpha		X	1	511	0	0	4		0.99	0	0	2	0	0	2			
IPI00109415.1	P97470	Ppp4c	Serine/threonine-protein phosphatase 4 catalytic subunit		X	2	307	0	0	8		0.95	0	0	2	0	0	2			
IPI00457950.2	Q91VJ5	Pqbp1	Polyglutamine-binding protein 1	X		0	263	26	0	0	1.00		5	0	0	5	0	0			
IPI00121788.1	P35700	Prdx1	Peroxiredoxin-1	X	X	X	1	199	34	73	87	1.00	1.00	1.00	11	14	18	10	13	18	
IPI00117910.3	Q61171	Prdx2	Peroxiredoxin-2	X	X	X	1	198	21	56	37	1.00	1.00	1.00	5	8	7	5	8	7	
IPI00116192.1	P20108	Prdx3	Thioredoxin-dependent peroxide reductase, mitochondrial		X	2	257	0	10	0		1.00		0	2	0	0	2	0		
IPI00555059.2	O08709	Prdx6	Peroxiredoxin-6	X	X	0	224	0	46	18		1.00	1.00	0	8	4	0	8	4		
IPI00132089.2	Q8C6A3	Prep	Prolyl endopeptidase		X	X	1	731	0	4	8	1.00	1.00	0	2	5	0	2	5		
IPI00114069.1	P33610	Prim2	DNA primase large subunit	X		0	505	12	0	0	1.00		4	0	0	4	0	0			
IPI00223185.5	Q9R078	Prkab1	5'-AMP-activated protein kinase subunit beta-1	X		0	270	27	0	0	1.00		5	0	0	5	0	0			
IPI00230005.3	P05132	Prkaca	cAMP-dependent protein kinase catalytic subunit alpha		X	1	351	0	0	11		0.97	0	0	2	0	0	2			
IPI00120495.1	Q9JIF0	Prmt1	Protein arginine N-methyltransferase 1	X	X	1	371	0	16	13		1.00	1.00	0	5	4	0	5	4		
IPI00229845.3	Q8CIG8	Prmt5	Protein arginine N-methyltransferase 5		X	X	1	637	0	12	14	1.00	1.00	0	4	6	0	4	6		
IPI00654420.1	Q3UYN1	Prosc	Putative uncharacterized protein	X	X	0	326	9	0	14	1.00		0.99	2	0	3	2	0	3		
IPI00222760.1	Q99KP6-2	Prpf19	Pre-mRNA-processing factor 19		X	0	523	0	0	20		1.00	0	0	6	0	0	6			
IPI00331170.1	Q922U1	Prpf3	U4/U6 small nuclear ribonucleoprotein Prp3	X	X	0	683	22	0	4	1.00		0.99	10	0	2	10	0	2		
IPI00331424.8	Q8CCF0	Prpf31	U4/U6 small nuclear ribonucleoprotein Prp31		X	1	499	0	0	6		1.00	0	0	2	0	0	2			
IPI00226155.3	Q4FK66	Prpf38a	Isoform 1 of Pre-mRNA-splicing factor 38A	X		2DLC	0	312	7	0	0	1.00		2	0	0	2	0	0		
IPI00458908.2	Q9DAW6	Prpf4	U4/U6 small nuclear ribonucleoprotein Prp4	X		0	521	7	0	0	1.00		3	0	0	3	0	0			
IPI00130409.1	Q91YR7	Prpf6	Pre-mRNA-processing factor 6	X		0	941	7	0	0	1.00		4	0	0	4	0	0			
IPI00850200.1	A5D6Q4	Prpf8	pre-mRNA processing factor 8		X	X	4	2335	0	15	4	1.00	1.00	0	29	7	0	29	7		
IPI00153950.1	Q8R574	Prpsap2	Phosphoribosyl pyrophosphate synthetase-associated protein 2		X	0	369	0	8	0		1.00		0	2	0	0	2	0		
IPI00831675.1	B2RW88	Prr19	Proline rich 19		X	0	366	0	0	10		0.94	0	0	2	0	0	2			
IPI00130391.1	Q9Z1R9	Prss1	protease, serine, 1	X	X	0	246	18	10	0	1.00	1.00	4	2	0	4	2	0			
IPI00403650.2	P07146	Prss2	Anionic trypsin-2	X		0	246	12	0	0	0.98		3	0	0	2	0	0			
IPI00321190.1	Q61207	Psap	Sulfated glycoprotein 1		X	0	557	0	4	0		1.00		0	2	0	0	2	0		
IPI00115257.1	Q99JF8	Psp1	Isoform 1 of PC4 and SFRS1-interacting protein	X	X	X	2DLC	0	528	18	8	5	1.00	1.00	1.00	10	3	2	8	3	2
IPI00283862.6	Q9R1P4	Psm1	Proteasome subunit alpha type-1	X	X	X	0	263	10	29	11	1.00	1.00	1.00	2	5	3	2	5	3	
IPI00420745.7	Q3UJW6	Psm2	Proteasome subunit alpha type	X	X	1	247	37	34	0	1.00	1.00	6	5	0	6	5	0			
IPI00331644.5	O70435	Psm3	Proteasome subunit alpha type-3		X	X	0	255	0	20	9	1.00	1.00	0	5	2	0	5	2		
IPI00277001.4	Q9R1P0	Psm4	Proteasome subunit alpha type-4		X	X	0	261	0	21	21	1.00	1.00	0	4	3	0	4	3		
IPI00131407.1	Q9Z2U1	Psm5	Proteasome subunit alpha type-5	X		0	241	0	38	0		1.00	0	7	0	0	7	0			
IPI00131845.1	Q9QUM9	Psm6	Proteasome subunit alpha type-6	X	X	X	0	246	13	25	10	1.00	1.00	1.00	2	5	2	2	5	2	
IPI00131406.1	Q9Z2U0	Psm7	Proteasome subunit alpha type-7	X	X	X	0	248	40	29	10	1.00	1.00	1.00	8	5	2	8	5	2	
IPI00113845.1	O09061	Psm1	Proteasome subunit beta type-1	X	X	1	240	0	19	14		1.00	1.00	0	4	2	0	4	2		
IPI00128945.1	Q9R1P3	Psm2	Proteasome subunit beta type-2		X	1	201	0	28	0		1.00		0	4	0	0	4	0		
IPI00314467.3	Q9R1P1	Psm3	Proteasome subunit beta type-3		X	X	0	205	0	24	21	1.00	1.00	0	4	3	0	4	3		
IPI00129512.3	P99026	Psm4	Proteasome subunit beta type-4		X	1	264	0	0	10		0.93	0	0	3	0	0	3			
IPI00317902.3	O55234	Psm5	Proteasome subunit beta type-5		X	X	1	264	0	31	23	1.00	1.00	0	7	4	0	7	4		
IPI00119239.2	Q60692	Psm6	Proteasome subunit beta type-6		X	X	0	238	0	25	29	1.00	1.00	0	3	4	0	3	4		
IPI00136483.1	P70195	Psm7	Proteasome subunit beta type-7	X	X	1	277	14	28	0	1.00	1.00	3	3	0	2	3	0			

IPI00133428.3	P62192	Psmc1	26S protease regulatory subunit 4	X	X	X	0	440	29	18	9	1.00	1.00	1.00	13	5	3	8	5	3	
IPI00270326.1	Q8BVQ9	Psmc2	Putative uncharacterized protein	X		X	0	475	24	0	11	1.00		1.00	9	0	4	8	0	4	
IPI00758064.1	A2AGN7	Psmc3	Proteasome (Prosome, macropain) 26S subunit ATPase 3	X	X	X	0	400	39	7	9	1.00	1.00	1.00	16	2	3	11	2	3	
IPI00126349.1	O35047	Psmc3ip	Homologous-pairing protein 2 homolog	X			0	217	29	0	0	1.00			3	0	0	3	0	0	
IPI00828513.1	Q6ZWN9	Psmc4	proteasome 26S ATPase subunit 4		X	X	0	418	0	25	20		1.00	1.00	0	7	6	0	7	6	
IPI00135640.1	P62196	Psmc5	26S protease regulatory subunit 8	X	X	X	0	406	16	8	19	1.00	1.00	1.00	4	3	6	4	3	6	
IPI00125971.1	P62334	Psmc6	26S protease regulatory subunit S10B	X	X	X	0	389	12	7	18	1.00	1.00	1.00	3	2	6	3	2	6	
IPI00875405.1	Q3TXS7	Psmc1	26S proteasome non-ATPase regulatory subunit 1		X	X	4	1002	0	15	6		1.00	1.00	0	9	4	0	9	4	
IPI00222515.5	Q8BG32	Psmc11	26S proteasome non-ATPase regulatory subunit 11	X	X	X	0	422	17	25	23	1.00	1.00	1.00	5	8	8	5	8	8	
IPI00318982.3	Q9D8W5	Psmc12	26S proteasome non-ATPase regulatory subunit 12		X	X	0	456	0	14	7		1.00	1.00	0	4	3	0	4	3	
IPI00126048.2	Q9VWJ2	Psmc13	Isoform 1 of 26S proteasome non-ATPase regulatory subunit 13		X	X	1DE, UF	1	376	0	26	10		1.00	1.00	0	8	3	0	8	3
IPI00113262.1	O35593	Psmc14	26S proteasome non-ATPase regulatory subunit 14		X	X		0	310	0	17	15		1.00	1.00	0	3	2	0	3	2
IPI00123494.3	Q8VDM4	Psmc2	26S proteasome non-ATPase regulatory subunit 2		X	X		4	908	0	20	12		1.00	1.00	0	11	10	0	11	10
IPI00314439.3	P14685	Psmc3	26S proteasome non-ATPase regulatory subunit 3	X		X	1	530	30	0	11	1.00		1.00	12	0	5	12	0	5	
IPI00128564.1	O35226	Psmc4	Isoform Rpn10B of 26S proteasome non-ATPase regulatory subunit 4	X			2DLC	0	376	20	0	0	1.00		6	0	0	6	0	0	
IPI00457661.5	Q8BJY1	Psmc5	26S proteasome non-ATPase regulatory subunit 5			X		1	504	0	0	9		1.00	0	0	3	0	0	3	
IPI00319965.3	Q99J14	Psmc6	26S proteasome non-ATPase regulatory subunit 6		X	X		1	389	0	10	12		1.00	0.99	0	3	3	0	3	3
IPI00114667.1	P26516	Psmc7	26S proteasome non-ATPase regulatory subunit 7		X	X		2	321	0	31	18		1.00	1.00	0	6	3	0	6	3
IPI00856490.1	Q9CX56	Psmc8	proteasome 26S non-ATPase subunit 8		X			1	353	0	7	0		0.99		0	2	0	0	2	0
IPI00124223.3	P97371	Psmc1	Proteasome activator complex subunit 1	X				0	249	28	0	0	1.00		5	0	0	5	0	0	
IPI00649986.2	P97372	Psmc2	Proteasome activator subunit 2			X		0	252	0	11	0		0.99	0	2	0	0	2	0	
IPI00649191.2	P61290	Psmc3	Proteasome (Prosome, macropain) 28 subunit, 3	X		X		0	265	10	0	15	1.00		1.00	2	0	3	2	0	3
IPI00396680.3	Q5SSW2	Psmc4	Isoform 1 of Proteasome activator complex subunit 4		X		1DE	5	1843	0	8	0		1.00		0	13	0	0	13	0
IPI00321266.5	Q8R326	Psmc1	Isoform 1 of Paraspeckle component 1	X		X	2DLC	0	523	37	0	9	1.00		1.00	13	0	3	11	0	3
IPI00117146.1	Q99LS3	Psmc1	Phosphoserine phosphatase		X			0	225	0	9	0		0.96		0	2	0	0	2	0
IPI00475378.4	Q92217	Psmc1	polypyrimidine tract binding protein 1	X	X	X		3	555	12	24	30	1.00	1.00	1.00	3	8	7	3	8	7
IPI00338458.2	Q3UK51	Psmc1	Putative uncharacterized protein		X	X		1	687	0	4	5		1.00	0.99	0	2	3	0	2	3
IPI00225419.1	P29351-2	Psmc6	Tyrosine-protein phosphatase non-receptor type 6	X				1	597	7	0	0	1.00		2	0	0	2	0	0	
IPI00153702.2	Q8R2Y8	Psmc2	Bcl-2 inhibitor of transcription		X			0	182	0	35	0		1.00		0	4	0	0	4	0
IPI00127174.4	Q3UEB3-2	Psmc60	Poly(U)-binding-splicing factor PUF60	X	X	X		2	547	7	14	12	1.00	1.00	1.00	3	4	3	2	4	3
IPI00330262.5	Q80U78	Psmc1	Pumilio homolog 1	X				1	1189	5	0	0	1.00		5	0	0	4	0	0	
IPI00876148.1	Q69Z61	Psmc2a	Isoform 1 of PWWP domain-containing protein 2A	X			2DLC	0	730	7	0	0	1.00		3	0	0	2	0	0	
IPI00165881.3	Q8V136	Psmc1	Paxillin	X				0	591	5	0	0	1.00		3	0	0	2	0	0	
IPI00223055.2	Q3TIN2	Psmc1	Putative uncharacterized protein	X	X	X		0	775	4	7	8	1.00	1.00	1.00	3	3	5	3	3	5
IPI00114560.5	P62821	Psmc1	Ras-related protein Rab-1A		X			0	205	0	39	0		1.00		0	6	0	0	6	0
IPI00130118.1	P61027	Psmc10	Ras-related protein Rab-10	X	X			0	200	3	12	0	0.00	0.97	1	2	0	1	2	0	
IPI00135869.3	P46638	Psmc11b	Ras-related protein Rab-11B		X			1	218	0	16	0		1.00		0	3	0	0	3	0

IPI00169485.3	Q9D620	Rab11fip1	RAB11 family interacting protein 1	X		0	1166	8	0	0	1.00		4	0	0	4	0	0
IPI00126042.3	Q91V41	Rab14	Ras-related protein Rab-14		X	1	215	0	17	0	1.00	1.00	0	3	0	0	3	0
IPI00116770.1	P35293	Rab18	Ras-related protein Rab-18		X	0	206	0	12	0	1.00		0	2	0	0	2	0
IPI00133706.1	Q9D1G1	Rab1b	Ras-related protein Rab-1B		X X	0	201	0	27	11	1.00	1.00	0	4	2	0	4	2
IPI00137227.1	P53994	Rab2a	Ras-related protein Rab-2A		X	0	212	0	42	0	1.00		0	7	0	0	7	0
IPI00130489.1	Q6PHN9	Rab35	Ras-related protein Rab-35		X	0	201	0	16	0	1.00		0	2	0	0	2	0
IPI00116697.1	P35279	Rab6	Ras-related protein Rab-6A		X	0	208	0	17	0	1.00		0	4	0	0	3	0
IPI00408892.2	P51150	Rab7	Ras-related protein Rab-7a		X X	0	207	0	45	18	1.00	1.00	0	7	3	0	7	3
IPI00903426.1	Q91WG2	Rabep2	Rab GTPase-binding effector protein 2	X		0	554	8	0	0	1.00		3	0	0	3	0	0
IPI00108774.1	P54728	Rad23b	UV excision repair protein RAD23 homolog B	X		0	416	21	0	7	1.00	1.00	6	0	2	5	0	2
IPI00420855.1	Q6PFE3	Rad54b	DNA repair and recombination protein RAD54B		X	1	886	0	0	5		0.94	0	0	4	0	0	3
IPI00225719.3	Q8C570	Rae1	mRNA export factor	X		0	368	10	0	0	1.00		2	0	0	2	0	0
IPI00453820.2	Q9EP71	Rai14	Ankyrin	X		0	979	3	0	0	0.99		2	0	0	2	0	0
IPI00130147.2	Q64012	Raly	RNA-binding protein Raly	X	X X	0	312	21	11	26	1.00	1.00	1.00	7	2	4	5	2
IPI00321978.3	P34022	Ranbp1	Ran-specific GTPase-activating protein (Fragment)	X	X X	0	203	31	27	21	1.00	1.00	1.00	4	4	3	4	4
IPI00337844.4	Q9ERU9	Ranbp2	E3 SUMO-protein ligase RanBP2	X	X	1	3053	2	3	0	0.95	1.00		3	4	0	3	4
IPI00467338.4	P46061	Rangap1	Ran GTPase-activating protein 1		X	1	589	0	0	11		1.00	0	0	4	0	0	4
IPI00138406.1	P62835	Rap1a	Ras-related protein Rap-1A		X	0	184	0	21	0		1.00	0	3	0	0	3	0
IPI00315488.1	Q9D0I9	Rars	Arginyl-tRNA synthetase, cytoplasmic		X X	1	660	0	24	12		1.00	1.00	0	12	5	0	12
IPI00816935.4	Q60790	Rasa3	RAS p21 protein activator 3		X	2	834	0	0	5		0.97	0	0	2	0	0	2
IPI00126133.1	Q61820	Ras12-9	GTP-binding nuclear protein Ran, testis-specific isoform	X		0	216	12	0	0	0.98		2	0	0	2	0	0
IPI00719915.1	Q9CW46	Raver1	Isoform 1 of Ribonucleoprotein PTB-binding 1	X	X	0	748	27	0	15	1.00	1.00	10	0	5	10	0	5
IPI00122696.5	Q60972	Rbbp4	Histone-binding protein RBBP4	X	X X	0	425	7	11	22	1.00	1.00	1.00	3	3	7	3	7
IPI00226384.2	Q3U3G1	Rbbp5	retinoblastoma binding protein 5		X	1	538	0	0	4		1.00	0	0	2	0	0	2
IPI00551482.3	P97868	Rbbp6	Retinoblastoma-binding protein 6		X	0	1790	0	0	4		0.99	0	0	3	0	0	3
IPI00122698.1	Q60973	Rbbp7	Histone-binding protein RBBP7	X	X X	0	425	7	24	22	1.00	1.00	1.00	3	6	7	3	6
IPI00116031.3	Q99KG3	Rbm10	RNA-binding protein 10	X	X	1	930	11	2	0	1.00	0.97		7	2	0	7	2
IPI00404707.1	Q8C2Q3	Rbm14	RNA-binding protein 14		X	0	669	0	6	0		0.99		0	4	0	0	4
IPI00889281.1	B0LM42	Rbm14	Transcriptional coactivator CoAZ	X		1	336	11	0	0	0.96		2	0	0	2	0	0
IPI00340815.3	Q0VBL3	Rbm15	RNA binding motif protein 15	X	X	0	962	8	3	0	1.00	0.99		4	2	0	4	2
IPI00170394.1	Q8JZX4	Rbm17	Splicing factor 45	X		0	405	10	0	0	1.00		3	0	0	3	0	0
IPI00421119.5	B2RY56	Rbm25	Isoform 1 of RNA-binding protein 25	X	X X	0	841	4	8	2	1.00	1.00	1.00	2	6	2	2	6
IPI00828892.1	Q5SFM8	Rbm27	Isoform 1 or 2 of RNA-binding protein 27	X		0	1060	7	0	0	1.00		6	0	0	5	0	0
IPI00378187.2	Q8BG13	Rbm3	Rbm3 protein	X		0	154	32	0	0	1.00		3	0	0	2	0	0
IPI00136573.1	Q9D3U4	Rbm31y	MCG53108	X		0	565	5	0	0	0.95		4	0	0	4	0	0
IPI00225915.2	B2RUP0	Rbm34	RNA binding motif protein 34	X		0	442	14	0	0	1.00		3	0	0	3	0	0
IPI00223371.2	Q5RJ0	Rbm39	RNA binding motif protein 39	X	X	2	530	22	0	8	1.00	1.00	7	0	3	7	0	3
IPI00130160.3	Q91YE7	Rbm5	RNA-binding protein 5	X		0	815	5	0	0	1.00		3	0	0	3	0	0
IPI00279153.3	Q8R388	Rbm6	Rbm6 protein	X		0	1122	5	0	0	1.00		3	0	0	3	0	0
IPI00410937.1	Q9CWZ3-1	Rbm8a	RNA binding motif protein 8a	X		0	174	31	0	0	1.00		3	0	0	3	0	0
IPI00223425.2	Q8BPF71	Rbm9	RNA-binding protein 9	X		0	449	14	0	0	1.00		4	0	0	3	0	0
IPI00118523.1	Q9DAE2	Rbmx12	Putative uncharacterized protein	X	X	0	385	25	15	0	1.00	1.00	10	5	0	10	5	0
IPI00663587.1	Q91VM5	Rbmxrt	RNA binding motif protein, X chromosome retrogene	X	X X	0	388	24	5	5	1.00	0.97	1.00	9	2	4	9	2
IPI00130885.1	Q35479	Rbmxrt	Heterogeneous nuclear ribonucleoprotein G	X	X	0	388	27	11	0	1.00	1.00	11	6	0	10	5	0
IPI00464101.2	Q4VGL6	Rc3h1	Roquin	X		0	1130	2	0	0	0.99		2	0	0	2	0	0
IPI00123762.2	Q6PFB2	Rcc1	Regulator of chromosome condensation 1		X X	0	434	0	12	15		1.00	1.00	0	4	3	0	4
IPI00222509.1	Q8BK67	Rcc2	Protein RCC2	X	X X	0	520	8	32	10	0.99	1.00	1.00	2	12	4	2	12
IPI00137831.1	Q05186	Rcn1	Reticulocalbin-1	X		0	325	46	0	0	1.00		8	0	0	8	0	0

IPI00474959.2	Q3TE95	Rcn2	Putative uncharacterized protein	X		0	355	8	0	0	1.00		2	0	0	2	0	0
IPI00221798.1	Q8BH97	Rcn3	Reticulocalbin-3	X		0	328	19	0	0	1.00		6	0	0	5	0	0
IPI00226581.1	Q8C796	Rcor2	REST corepressor 2	X		0	523	10	0	0	1.00		4	0	0	4	0	0
IPI00395067.1	P19426	Rdbp	Negative elongation factor E	X		0	375	34	0	0	1.00		12	0	0	8	0	0
IPI00653921.2	Q3TS85	Rdx	Isoform a of radixin	X	X	2DLC, 1DE	0	583	14	17	0	1.00	1.00	7	9	0	6	9
IPI00311103.1	Q9JJW6	Refbp2	Isoform 1 of RNA and export factor-binding protein 2	X	X	2DLC	0	218	33	12	0	1.00	1.00	7	2	0	7	2
IPI00120529.2	Q5U4B1	Rfc1	Rfc1 protein	X		0	1132	8	0	0	1.00		5	0	0	5	0	0
IPI00665571.2	Q8R323	Rfc3	Replication factor C subunit 3			X	0	356	0	0	10		1.00	0	0	3	0	3
IPI00224572.4	Q5CZW9	Rg9mtd2	RNA (guanine-9-) methyltransferase domain containing 2	X		0	330	5	0	0	1.00		2	0	0	2	0	0
IPI00315100.1	Q9QUI0	Rhoa	Transforming protein RhoA		X		0	193	0	23	0		1.00	0	3	0	0	3
IPI00626173.3	Q6PR54	Rif1	Telomere-associated protein RIF1		X	X	6	2419	0	5	7		1.00	1.00	0	7	10	7
IPI00471148.2	Q9CQS5	Riok2	Serine/threonine-protein kinase RIO2	X		0	547	5	0	0	1.00		2	0	0	2	0	0
IPI00123915.1	Q9WTV7	Rlim	LIM domain interacting RING finger protein	X		0	600	12	0	0	1.00		3	0	0	3	0	0
IPI00330736.5	Q80XJ2	Rnf168	ring finger protein 168	X		0	567	5	0	0	1.00		2	0	0	2	0	0
IPI00133880.2	Q9CQJ4	Rnf2	E3 ubiquitin-protein ligase RING2	X		0	336	17	0	0	1.00		4	0	0	4	0	0
IPI00313296.3	Q91VI7	Rnh1	Ribonuclease inhibitor		X		0	456	0	0	13		1.00	0	0	3	0	3
IPI00453849.3	Q9D0L8	Rnmt	mRNA cap guanine-N7 methyltransferase	X		0	465	7	0	0	1.00		2	0	0	2	0	0
IPI00130664.5	O89026	Robo1	Roundabout homolog 1		X		2	1612	0	2	0		0.92	0	2	0	0	2
IPI00109401.1	Q9D706	Rpap3	RNA polymerase II-associated protein 3	X		0	660	14	0	0	1.00		8	0	0	7	0	0
IPI00124511.1	Q8VEE0	Rpe	Ribulose-phosphate 3-epimerase		X		0	228	0	0	23		1.00	0	0	2	0	2
IPI00380313.3	Q7TND5	Rpf1	Ribosome production factor 1	X		0	349	26	0	0	1.00		7	0	0	6	0	0
IPI00121159.3	Q9J80	rpf2	Brix domain-containing protein 1	X		0	306	38	0	0	1.00		16	0	0	10	0	0
IPI00626239.3	Q9CXW4	Rpl11	Ribosomal protein L11	X	X	X	1	181	29	52	35	1.00	1.00	1.00	4	9	6	4
IPI00223217.6	P19253	Rpl13a	60S ribosomal protein L13a	X	X	X	0	203	29	13	34	1.00	1.00	1.00	6	3	8	6
IPI00473728.1	Q9CWK0	Rpl14	Putative uncharacterized protein	X	X	X	1	227	19	23	22	1.00	1.00	1.00	5	6	5	6
IPI00890140.1	Q569Z0	Rpl14	Ribosomal protein L14	X		1	216	23	0	0	0.99		5	0	0	5	0	0
IPI00555113.2	P35980	Rpl18	60S ribosomal protein L18	X	X	X	0	188	41	41	30	1.00	1.00	1.00	9	7	5	9
IPI00850221.1	Rpl19		Mus musculus ribosomal protein L19	X	X	X	0	196	34	17	22	1.00	1.00	1.00	9	3	4	7
IPI00139780.1	P62830	Rpl23	60S ribosomal protein L23	X	X	X	0	140	51	59	39	1.00	1.00	1.00	11	8	5	8
IPI00876172.1	P62751	Rpl23a	60S ribosomal protein L23a	X		0	153	39	0	0	1.00		8	0	0	8	0	0
IPI00323806.4	Q3UJW40	Rpl24	Putative uncharacterized protein	X	X	X	0	160	24	19	30	1.00	1.00	1.00	6	4	5	5
IPI00230623.8	P62911	Rpl32	60S ribosomal protein L32	X	X	X	0	135	40	17	21	1.00	1.00	1.00	6	3	4	5
IPI00222550.8	Q3U8M3	Rpl37a	Putative uncharacterized protein		X		0	97	0	0	27		1.00	0	0	2	0	2
IPI00111412.3	Q9D8E6	Rpl4	60S ribosomal protein L4	X	X	X	0	419	37	35	40	1.00	1.00	1.00	24	16	17	20
IPI00311236.1	P14148	Rpl7	60S ribosomal protein L7	X	X	X	0	270	53	47	39	1.00	1.00	1.00	20	19	12	19
IPI00111695.1	Q9D8M4	Rpl711	60S ribosomal protein L7-like 1	X		0	246	19	0	0	1.00		5	0	0	5	0	0
IPI00137787.3	P62918	Rpl8	60S ribosomal protein L8	X	X	X	0	257	33	31	34	1.00	1.00	1.00	8	8	7	8
IPI00113377.1	P47955	Rplp1	60S acidic ribosomal protein P1		X	X	1	114	0	52	52		1.00	1.00	0	2	2	0
IPI00139795.2	P99027	Rplp2	60S acidic ribosomal protein P2	X	X	X	0	115	90	70	74	1.00	1.00	1.00	13	4	5	11
IPI00309035.2	Q91YQ5	Rpn1	Dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit 1		X	X	1	608	0	39	14		1.00	1.00	0	16	7	0
IPI00889811.1	Q9DBG6	Rpn2	Dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit 2		X	X	5	675	0	27	19		1.00	1.00	0	10	6	0
IPI00128066.1	Q91WE3	Rpp25	Ribonuclease P protein subunit p25	X		0	199	35	0	0	1.00		3	0	0	3	0	0
IPI00134346.1	O88796	Rpp30	Ribonuclease P protein subunit p30	X		1	268	26	0	0	1.00		4	0	0	4	0	0
IPI00330367.5	Q80UU2	Rpp38	Ribonuclease P protein subunit p38	X		0	280	21	0	0	1.00		3	0	0	3	0	0
IPI00123724.1	Q8VDS4	Rprd1a	Regulation of nuclear pre-mRNA domain-containing protein 1A	X		0	312	17	0	0	1.00		4	0	0	4	0	0
IPI00338515.4	Q9CSU0	Rprd1b	Isoform 1 of Regulation of nuclear pre-mRNA domain-containing protein 1B	X		2DLC	0	326	33	0	0	1.00		7	0	0	7	0
IPI00112448.1	P63325	Rps10	40S ribosomal protein S10	X	X	X	0	165	62	37	28	1.00	1.00	1.00	13	6	4	12
IPI00117569.3	Q9DB79	Rps11	Putative uncharacterized protein	X	X	X	0	166	22	32	51	1.00	1.00	1.00	6	7	10	6
IPI00322562.5	P62264	Rps14	40S ribosomal protein S14	X	X	X	0	151	38	24	23	1.00	1.00	1.00	7	4	3	6

IPI00319231.4	P62843	Rps15	40S ribosomal protein S15	X	X	X	0	145	70	43	56	1.00	1.00	1.00	17	6	4	8	3	4
IPI00465880.4	P63276	Rps17	40S ribosomal protein S17	X	X		0	135	44	57	0	1.00	1.00		7	10	0	6	8	0
IPI00317590.5	P62270	Rps18	40S ribosomal protein S18	X		X	0	152	52	0	53	1.00		1.00	10	0	10	9	0	10
IPI00875584.1	Q9CZX8	Rps19	Rps19 protein	X	X	X	0	157	56	20	45	1.00	0.98	1.00	12	3	7	12	3	7
IPI00323819.3	P60867	Rps20	40S ribosomal protein S20	X	X	X	0	119	19	42	25	1.00	1.00	1.00	2	4	3	2	4	3
IPI00132950.1	Q9CQR2	Rps21	40S ribosomal protein S21	X	X		0	83	45	41	0	1.00	1.00		5	5	0	4	4	0
IPI00131357.7	Q9CZ15	Rps23	Putative uncharacterized protein	X	X	X	0	145	30	48	52	1.00	1.00	1.00	5	6	6	5	6	6
IPI00465568.5	Q9CQK2	Rps24	40S ribosomal protein S24	X	X	X	0	134	38	28	19	1.00	1.00	1.00	8	4	2	6	3	2
IPI00137735.1	P62852	Rps25	40S ribosomal protein S25	X	X	X	0	125	31	30	22	1.00	1.00	1.00	5	5	3	5	5	3
IPI00124709.3	Q6ZWY3	Rps271	40S ribosomal protein S27-like protein	X	X		0	84	29	38	0	1.00	1.00		3	3	0	2	3	0
IPI00134599.1	P62908	Rps3	40S ribosomal protein S3	X	X	X	0	243	64	64	61	1.00	1.00	1.00	19	15	14	17	14	14
IPI00331092.7	P62702	Rps4x	40S ribosomal protein S4	X	X	X	0	263	48	59	65	1.00	1.00	1.00	16	19	21	15	18	20
IPI00471047.2	Q3V1Z5	Rps4y2	RIKEN cDNA 1110033J19	X			0	262	48	0	0	1.00			15	0	0	14	0	0
IPI00857345.1	P97461	Rps5	40S ribosomal protein S5	X	X	X	0	182	32	41	29	1.00	1.00	1.00	4	7	5	3	7	5
IPI00125521.3	P97461	Rps5	40S ribosomal protein S5	X			0	204	33	0	0	1.00			5	0	0	4	0	0
IPI00648998.3	Q505N6	Rps6ka1	ribosomal protein S6 kinase polypeptide 1	X		X	2	735	9	0	5	1.00		1.00	4	0	3	4	0	3
IPI00136984.1	P62082	Rps7	40S ribosomal protein S7	X	X	X	0	194	59	41	55	1.00	1.00	1.00	12	8	8	11	8	8
IPI00420726.3	Q6ZWN5	Rps9	40S ribosomal protein S9	X	X	X	0	194	49	44	38	1.00	1.00	1.00	17	12	10	16	12	10
IPI00120035.2	Q149F1	Rpusd2	RNA pseudouridylylase synthase domain-containing protein 2	X			0	553	12	0	0	1.00			6	0	0	4	0	0
IPI00123602.2	Q9JKY0	Rqcd1	Cell differentiation protein RCD1 homolog		X	X	2	299	0	7	10		1.00	1.00	0	2	2	0	2	2
IPI00121149.1	Q99PL5	Rrbp1	Isoform 3 of Ribosome-binding protein 1	X		2DLC	1	1605	2	0	0	0.99			2	0	0	2	0	0
IPI00331302.4	Q6NZB3	Rrm1	Ribonucleoside-diphosphate reductase		X	X	1	792	0	9	7		1.00	1.00	0	4	3	0	4	3
IPI00110856.2	P56183	Rrp1	Ribosomal RNA processing protein 1 homolog A			X	0	494	0	0	7		1.00	0	0	2	0	0	2	2
IPI00420344.1	Q6P5B0	Rrp12	RRP12-like protein		X	X	3	1295	0	5	8		1.00	1.00	0	4	7	0	4	7
IPI00133594.3	Q9D1C9	Rrp7a	Ribosomal RNA-processing protein 7 homolog A	X			0	280	29	0	0	1.00			6	0	0	6	0	0
IPI00653834.2	Q9DB85	Rrp8	Ribosomal RNA-processing protein 8			X	0	503	0	0	7		1.00	0	0	2	0	0	2	2
IPI00128256.1	Q91WM3	Rrp9	U3 small nucleolar RNA-interacting protein 2	X		X	0	475	13	0	11	1.00		1.00	4	0	3	4	0	3
IPI00318725.4	Q9CYH6	Rrs1	Ribosome biogenesis regulatory protein homolog	X			0	365	33	0	0	1.00			12	0	0	11	0	0
IPI00226149.6	Q3UL54	Rsl1d1	Putative uncharacterized protein	X	X	X	0	465	47	15	34	1.00	1.00	1.00	25	5	12	21	5	12
IPI00469392.2	Q99P72	Rtn4	Isoform 1 of Reticulon-4		X	X	2	1162	0	6	9		1.00	1.00	0	3	6	0	3	6
IPI00856593.1	Q3UJN2	Ruvbl1	Putative uncharacterized protein	X	X	X	0	456	23	16	23	1.00	1.00	1.00	8	6	7	8	6	7
IPI00123557.3	Q9WTM5	Ruvbl2	RuvB-like 2		X		0	463	0	32	0		1.00		0	11	0	0	11	0
IPI00121427.1	P14069	S100a6	Protein S100-A6			X	1	89	0	0	39		1.00	0	0	3	0	0	3	3
IPI00129105.2	Q9R1T2	Sae1	SUMO-activating enzyme subunit 1		X	X	1	350	0	35	8		1.00	1.00	0	9	2	0	8	2
IPI00605227.3	Q80YR5	Safb2	Scaffold attachment factor B2	X			0	1050	13	0	0	1.00			7	0	0	7	0	0
IPI00342267.1	Q6P5E3	Sall1	sal-like 1			X	0	1323	0	0	4		1.00	0	0	2	0	0	2	2
IPI00475164.2	Q8BX22	Sall4	Isoform 1 of Sal-like protein 4	X		X	0	1067	3	0	7	1.00		1.00	2	0	5	2	0	5
IPI00875198.1	Q60710	Samhd1	SAM domain- and HD domain-containing protein 1	X			0	658	13	0	0	1.00			4	0	0	4	0	0
IPI00225307.1	Q8C483	Sars	Seryl-aminoacyl-tRNA synthetase			X	0	536	0	0	8		1.00	0	0	2	0	0	2	2
IPI00323674.6	Q9Z315	Sart1	U4/U6.U5 tri-snRNP-associated protein 1	X			0	806	24	0	0	1.00			14	0	0	12	0	0
IPI00136151.4	P70122	Sbds	Ribosome maturation protein SBDS	X		X	0	250	24	0	7	1.00		0.99	3	0	2	3	0	2
IPI00407413.2	B2RPU8	Scand3	SCAN domain containing 3			X	2	756	0	3	0		1.00		0	2	0	0	2	0
IPI00224219.1	Q8BRF7	Scd1	Sec1 family domain-containing protein 1			X	1	639	0	0	5			0.99	0	0	2	0	0	2
IPI00121931.1	Q8VCA8	Scrn2	Secernin-2	X			0	425	10	0	0	0.99			2	0	0	2	0	0

IPI00462855.3	Q9EQC5	Scyl1	N-terminal kinase-like protein	X					1	806	7	0	0	1.00		3	0	0	3	0	0	
IPI00659713.1	Q3TKY6	Sdccag10	Peptidyl-prolyl cis-trans isomerase SDCCAG10	X					0	469	25	0	0	1.00		9	0	0	8	0	0	
IPI00123852.6	Q9DCT5	Sdf2	Stromal cell-derived factor 2	X					0	211	29	0	0	1.00		5	0	0	4	0	0	
IPI00227657.6	Q9ESP1	Sdf2l1	Stromal cell-derived factor 2-like protein 1	X					0	221	30	0	0	1.00		3	0	0	3	0	0	
IPI00117754.1	Q61112	Sdf4	Isoform 1 of 45 kDa calcium-binding protein	X		2DLC			0	361	11	0	0	1.00		2	0	0	2	0	0	
IPI00230351.1	Q8K2B3	Sdha	Succinate dehydrogenase [ubiquinone] flavoprotein subunit, mitochondrial	X					1	664	0	33	0	1.00		0	15	0	0	15	0	
IPI00895251.1	Q6PET3	Sec11a	Sec11a protein (Fragment)	X					2	275	0	6	0	1.00		0	2	0	0	2	0	
IPI00755905.1	A2AIX1	Sec16a	SEC16 homolog A	X					1	2377	4	0	0	1.00		6	0	0	6	0	0	
IPI00123349.2	Q01405	Sec23a	Protein transport protein Sec23A	X					3	765	0	3	0	0.99		0	2	0	0	2	0	
IPI00377592.7	Q3UPL0	Sec31a	SEC31-like 1	X					0	1324	0	0	3	1.00		0	0	2	0	0	2	
IPI00226882.7	P61620	Sec61a1	Protein transport protein Sec61 subunit alpha isoform 1	X					8	476	0	18	0	1.00		0	5	0	0	4	0	
IPI00315517.12	Q3UP79	Seh1l	unnamed protein product	X					0	364	10	0	0	0.99		2	0	0	2	0	0	
IPI00377727.8	Q80TS8	Sel1l3	SEL1-like repeat-containing protein KIAA0746	X					3	1137	0	0	5	0.92		0	0	3	0	0	3	
IPI00109326.1	Q9EP97	Serp3	Sentrin-specific protease 3	X					0	568	22	0	0	1.00		13	0	0	8	0	0	
IPI00309089.6	P42209	Sept1	Septin 1	X					0	366	7	0	0	1.00		2	0	0	2	0	0	
IPI00454142.5	Q8C1B7	Sept11	Septin-11	X		X			0	431	0	10	0	1.00		0	2	0	0	2	0	
IPI00114945.1	P42208	Sept2	Septin-2	X		X	X		0	361	26	19	12	1.00	1.00	1.00	5	5	3	5	5	3
IPI00224626.3	Q55131	Sept7	Cell division cycle 10 homolog	X		X			0	437	15	14	0	1.00	1.00	4	4	0	4	4	0	
IPI00457611.2	Q80UG5	Sept9	Septin-9	X					0	583	22	0	0	1.00		15	0	0	12	0	0	
IPI00471476.1	Q9CY58-2	Serp1	Isoform 2 of Plasminogen activator inhibitor 1 RNA-binding protein	X		X	X	2DLC	0	392	29	40	40	1.00	1.00	1.00	9	13	14	9	13	14
IPI00136642.1	P32261	Serpinc1	Antithrombin-III	X					1	465	11	0	0	1.00		5	0	0	4	0	0	
IPI00880252.1	Q5U4D0	Serpinh1	serine (or cysteine) proteinase inhibitor, clade H, member 1 precursor	X		X			1	417	27	0	17	1.00	1.00	7	0	5	7	0	4	
IPI00886248.1	Q8CFT2	Setd1b	Histone-lysine N-methyltransferase SETD1B	X					1	1985	0	0	2	1.00	1.00	0	0	2	0	0	2	
IPI00116284.4	Q64213	Sf1	Splicing factor 1	X		X	X		0	653	13	7	10	1.00	1.00	1.00	7	3	4	4	3	4
IPI00408796.3	Q8K4Z5	Sf3a1	Splicing factor 3 subunit 1	X		X	X		0	791	0	15	5	1.00	1.00	0	8	2	0	8	2	
IPI00380281.4	Q62203	Sf3a2	splicing factor 3a, subunit 2	X					0	485	22	0	0	1.00		11	0	0	5	0	0	
IPI00137848.1	Q9D554	Sf3a3	Splicing factor 3A subunit 3	X					0	501	8	0	0	1.00		3	0	0	3	0	0	
IPI00623284.4	Q99NB9	Sf3b1	Splicing factor 3B subunit 1	X		X	X		5	1304	0	17	11	1.00	1.00	0	13	10	0	13	10	
IPI00349401.3	Q3UA14	Sf3b2	Putative uncharacterized protein	X		X			0	878	0	5	4	1.00	1.00	0	4	2	0	4	2	
IPI00122011.2	Q921M3	Sf3b3	Isoform 1 of Splicing factor 3B subunit 3	X		X	1DE, UF		3	1217	0	13	9	1.00	1.00	0	10	8	0	10	8	
IPI00311948.3	Q923D4	Sf3b5	Splicing factor 3B subunit 5	X					0	86	0	45	0	1.00		0	3	0	0	3	0	
IPI00454015.2	Q8CH02	Sf4	Splicing factor 4	X					0	643	14	0	0	1.00		6	0	0	6	0	0	
IPI00118286.1	Q70456	Sfn	14-3-3 protein sigma	X		X	X		0	248	4	31	29	0.00	1.00	1.00	2	7	6	1	6	6
IPI00129430.1	Q8VIJ6	Sfpq	Splicing factor, proline- and glutamine-rich	X		X	X		0	699	22	21	19	1.00	1.00	1.00	12	11	9	12	11	9
IPI00848672.1	Sfrs11	Sfrs11	splicing factor, arginine/serine-rich 11	X		X			1	511	10	0	6	1.00	1.00	3	0	2	3	0	2	
IPI00314984.4	Q3UYX6	Sfrs13a	Putative uncharacterized protein	X		X			0	278	14	10	0	1.00	1.00	3	2	0	3	2	0	
IPI00405760.2	Q8CH09	Sfrs14	Putative splicing factor, arginine/serine-rich 14	X		X			0	1067	0	0	3	0.92		0	0	2	0	0	2	
IPI00474430.1	Q8C671	Sfrs2	Putative uncharacterized protein	X		X	X		0	254	0	7	6	0.99	1.00	0	2	2	0	2	2	
IPI00129323.1	P84104	Sfrs3	Splicing factor, arginine/serine-rich 3	X		X			0	164	14	21	0	1.00	1.00	2	3	0	2	3	0	
IPI00607076.1	Q542V3	Sfrs4	splicing factor, arginine/serine-rich 4	X		X			0	491	5	0	4	0.99	0.98	2	0	2	2	0	2	
IPI00314709.1	Q35326	Sfrs5	Splicing factor, arginine/serine-rich 5	X					0	270	10	0	0	1.00		2	0	0	2	0	0	
IPI00222763.1	Q8BL97	Sfrs7	Splicing factor, arginine/serine-rich 7	X		X	X		1	267	5	16	10	1.00	1.00	1	4	3	1	4	3	
IPI00132340.1	Q9D0B0	Sfrs9	Splicing factor, arginine/serine-rich 9	X					0	222	25	0	0	1.00		6	0	0	6	0	0	
IPI00115454.3	Q99JR1	Sfxn1	Sideroflexin-1	X		X			3	322	0	0	14	1.00		0	0	2	0	0	2	

IPI00127358.1	Q91VW3	Sh3bgrl3	SH3 domain-binding glutamic acid-rich-like protein 3	X				0	93	20	0	0	1.00		2	0	0	2	0	0
IPI00312752.3	Q62419	Sh3gl1	Endophilin-A2	X				0	368	19	0	0	1.00		3	0	0	3	0	0
IPI00849830.1	Q6PD21	Shb	src homology 2 domain-containing transforming protein B	X				1	605	5	0	0	1.00		2	0	0	2	0	0
IPI00125298.2	P98083	Shc1	SHC-transforming protein 1				X	0	579	0	0	6		1.00	0	0	3	0	0	3
IPI00608017.1	Q8R0X9	Shmt1	serine hydroxymethyltransferase 1			X	X	1	478	0	6	11		1.00	1.00	0	3	5	0	3
IPI00454008.1	Q99K87	Shmt2	Serine hydroxymethyltransferase	X		X	X	1	504	17	24	8		1.00	1.00	1.00	5	8	3	5
IPI00117932.2	Q60520	Sin3a	Paired amphipathic helix protein Sin3a	X				0	1282	3	0	0		1.00		2	0	0	2	
IPI00453688.1	Q8C0T5	Sipa111	Signal-induced proliferation-associated 1-like protein 1				X	0	1782	0	0	5		1.00	0	0	5	0	0	5
IPI00134988.1	Q923E4	Sirt1	NAD-dependent deacetylase sirtuin-1				X	0	737	0	0	9		1.00	0	0	3	0	0	3
IPI00113134.1	Q9CZU3	Skiv2l2	Superkiller viralicidic activity 2-like 2			X		1	1040	0	8	0		1.00		0	5	0	0	
IPI00331163.9	Q9WTX5	Skp1a	S-phase kinase-associated protein 1			X		0	163	0	22	0		1.00		0	2	0	0	
IPI00137194.1	P53986	Slc16a1	Monocarboxylate transporter 1			X		10	493	0	7	0		1.00		0	2	0	0	
IPI00230754.5	Q9CR62	Slc25a11	Mitochondrial 2-oxoglutarate/malate carrier protein			X		3	314	0	6	0		1.00		0	2	0	0	
IPI00135651.1	Q9QXX4	Slc25a13	Calcium-binding mitochondrial carrier protein Aralar2			X	X	4	676	0	38	6		1.00	1.00	0	17	2	0	
IPI00115564.5	P48962	Slc25a4	ADP/ATP translocase 1	X		X	X	3	298	9	41	29		1.00	1.00	0.99	2	12	7	
IPI00127841.3	P51881	Slc25a5	ADP/ATP translocase 2	X		X	X	2	298	9	52	32		1.00	1.00	1.00	2	15	8	
IPI00120769.3	Q9JIM1	Slc29a1	Equilibrative nucleoside transporter 1				X	10	460	0	0	7		1.00		0	0	3	0	
IPI00884508.1	Q6GTI3	Slc2a1	solute carrier family 2 (facilitated glucose transporter), member 1			X	X	10	492	0	11	12		1.00	1.00	0	4	4	0	
IPI00134191.3	P32037	Slc2a3	Solute carrier family 2, facilitated glucose transporter member 3			X		10	493	0	9	0		1.00		0	5	0	0	
IPI00123279.1	Q922Q5	Slc35b3	Adenosine 3'-phospho 5'-phosphosulfate transporter 2				X	9	369	0	0	20			0.96	0	0	3	0	
IPI00114641.2	Q60849	Slc3a2	CD98 heavy chain			X	X	0	532	0	29	11		1.00	1.00	0	11	5	0	
IPI00880321.1		Slc4a1ap	83 kDa protein	X				0	744	7	0	0	0.99			4	0	0	4	
IPI00109311.3	P70441	Slc9a3r1	Isoform 1 of Na(+)/H(+) exchange regulatory cofactor NHE-RF1	X			2DLC	0	355	15	0	0		1.00		3	0	0	3	
IPI00331076.4	O54988	Slk	STE20-like serine/threonine-protein kinase	X				1	1233	3	0	0	0.90			2	0	0	2	
IPI00229571.1	Q8CH25	Slm	SAFB-like transcription modulator	X				0	1031	5	0	0		1.00		3	0	0	3	
IPI00221882.1	Q8BHJ9	Slu7	Pre-mRNA-splicing factor SLU7	X				0	585	9	0	0		1.00		3	0	0	3	
IPI00460668.2	Q3TUD7	Smarca4	Putative uncharacterized protein			X		0	1617	0	10	0		1.00		0	10	0	0	
IPI00396739.1	Q91ZW3	Smarca5	SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily A member 5			X	X	0	1051	0	7	5		1.00	1.00	0	9	4	0	
IPI00125662.2	P97496	Smarcc1	SWI/SNF complex subunit SMARCC1	X		X	X	2	1104	20	9	8		1.00	1.00	1.00	19	7	6	
IPI00121270.5	Q61466	Smarcd1	SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily D member 1	X				0	515	20	0	0		1.00		6	0	0	6	
IPI00119892.1	O54941	Smarce1	SWI/SNF-related matrix-associated actin-dependent regulator chromatin subfamily E member 1	X				0	411	30	0	0		1.00		10	0	0	10	
IPI00606586.2	Q3ULS2	Smc2	Putative uncharacterized protein	X		X	X	1	1233	3	4	2		1.00	1.00	1.00	3	3	3	
IPI00132122.3	Q9CW03	Smc3	Structural maintenance of chromosomes protein 3	X				1	1217	4	0	0	0.99			3	0	0	3	
IPI00229397.1	Q8CG47	Smc4	Structural maintenance of chromosomes protein 4	X		X		0	1286	4	11	0		1.00	1.00		4	12	0	
IPI00129918.1	P97801	Smn1	Survival motor neuron protein				X	0	288	0	0	17			0.99	0	0	2	0	
IPI00221714.1	Q8BGT7	Smndc1	Survival of motor neuron-related-splicing factor 30	X				0	238	24	0	0		1.00		3	0	0	3	
IPI00648499.1	Q921U8	Smtn	Smoothelin	X				0	946	2	0	0		1.00		1	0	0	1	

IPI00605037.1	Q52KI8	Srrm1	Serine/arginine repetitive matrix protein 1		X	X		0	946	0	3	2		1.00	1.00	0	2	2	0	2	2
IPI00785240.1	Q8BTI8	Srrm2	Serine/arginine repetitive matrix protein 2				X	0	2703	0	0	2			1.00	0	0	4	0	0	4
IPI00134300.1	P32067	Ssb	Lupus La protein homolog	X	X	X		0	415	48	33	8	1.00	1.00	1.00	27	12	3	25	12	3
IPI00110852.4	Q52PE3	Ssr1	Translocon-associated protein alpha		X			1	298	0	6	0		1.00		0	2	0	0	2	0
IPI00407571.2	Q08943-2	Ssrp1	FACT complex subunit SSRP1		X	X		0	713	0	8	12		1.00	1.00	0	4	5	0	4	5
IPI00116308.1	Q99L47	St13	Hsc70-interacting protein	X	X	X		0	371	13	17	6	1.00	1.00	1.00	4	5	2	4	5	2
IPI00468418.2	O88811	Stam2	Signal transducing adapter molecule 2	X				1	523	9	0	0	0.99			2	0	0	2	0	0
IPI00749596.1	A2A5S3	Stau1	stau1 (RNA binding protein) homolog 1 isoform 1	X			2DLC	0	495	8	0	0	1.00			3	0	0	3	0	0
IPI00121514.3	Q60864	Stip1	Stress-induced-phosphoprotein 1	X	X	X		0	543	45	21	25	1.00	1.00	1.00	37	10	12	26	10	12
IPI00551236.3	P54227	Stmn1	Stathmin	X	X	X		0	149	33	15	29	1.00	0.96	1.00	7	3	4	7	3	4
IPI00115117.1	Q99JB2	Stoml2	Stomatin-like protein 2		X	X		0	353	0	18	20		1.00	1.00	0	4	4	0	4	4
IPI00130670.1	Q9Z1Z2	Strap	39 kDa protein	X				0	351	32	0	0	1.00			8	0	0	7	0	0
IPI00554884.1	Q5BKR9	Strn	Striatin, calmodulin binding protein	X				0	780	4	0	0	1.00			3	0	0	3	0	0
IPI00471361.3	Q9WUD1	Stub1	STIP1 homology and U box-containing protein 1	X				0	304	14	0	0	1.00			3	0	0	3	0	0
IPI00406442.2	Q9WUM5	Suclg1	succinate-CoA ligase, GDP-forming, alpha subunit			X		0	333	0	0	17		1.00		0	0	4	0	0	4
IPI00408957.3	Q9CX34	Sugt1	Suppressor of G2 allele of SKP1 homolog	X	X	X		0	336	35	10	23	1.00	1.00	1.00	10	2	5	10	2	5
IPI00120344.2	Q920B9	Supt16h	FACT complex subunit SPT16		X	X		1	1047	0	16	9		1.00	1.00	0	12	7	0	12	7
IPI00656221.1	O55201	Supt5h	Transcription elongation factor SPT5			X		0	1082	0	0	1		1.00	0	0	2	0	0	2	0
IPI00454050.1	Q62383	Supt6h	Transcription elongation factor SPT6		X	X		0	1726	0	6	2		1.00	1.00	0	8	3	0	8	3
IPI00406117.1	Q7TMK9	Syncrip	Isoform 1 of Heterogeneous nuclear ribonucleoprotein Q	X	X	X	2DLC	0	623	36	28	16	1.00	1.00	1.00	15	14	9	15	14	9
IPI00403993.5	Syne1	Syne1	Synaptic nuclear envelope 1	X		X		2	8799	1	0	1	0.99		1.00	7	0	8	7	0	8
IPI00845851.1	Syne2	Syne2	Synaptic nuclear envelope 2			X		3	6874	0	0	1		0.97	0	0	4	0	0	4	0
IPI00465585.1	Q9JJG0	Tacc2	Transforming, acidic coiled-coil containing protein 2	X				0	2879	2	0	0	1.00			2	0	0	2	0	0
IPI00757998.1	Q99LH8	Tacc3	Tacc3 protein	X				0	637	6	0	0	0.99			2	0	0	2	0	0
IPI00876056.1	Taf15	Taf15	62 kDa protein	X				1	589	5	0	0	1.00			2	0	0	2	0	0
IPI00226515.5	P37804	Tagln	Transgelin	X		X		0	201	11	0	15	1.00		1.00	2	0	3	2	0	3
IPI00125778.3	Q9VWA4	Tagln2	transgelin	X	X	X		0	212	38	24	32	1.00	1.00	1.00	7	3	6	6	3	5
IPI00124692.1	Q93092	Taldo1	Transaldolase	X	X	X		2	337	0	27	20		1.00	1.00	0	11	7	0	11	7
IPI00121758.1	Q921F2	Tardbp	TAR DNA-binding protein 43	X	X	X		1	414	19	25	12	1.00	1.00	1.00	5	7	2	5	7	2
IPI00468688.4	Q9D0R2	Tars	Threonyl-tRNA synthetase, cytoplasmic	X	X	X		1	722	3	12	12	1.00	1.00	1.00	2	7	7	2	7	7
IPI00222972.5	P48428	Tbca	Tubulin-specific chaperone A	X				0	108	24	0	0	1.00			3	0	0	3	0	0
IPI00315948.3	Q9D1E6	Tbcb	Tubulin-folding cofactor B			X		1	244	0	0	9		1.00	0	0	2	0	0	2	0
IPI00124057.1	Q8VE90	Tbl3	Transducin (beta)-like 3			X		0	802	0	0	5		1.00	0	0	3	0	0	3	0
IPI00121887.5	P10711	Tcea1	Isoform 2 of Transcription elongation factor A protein 1	X			2DLC	0	301	18	0	0	1.00			5	0	0	3	0	0
IPI00471277.1	Q8CGF7	Tcerg1	Transcription elongation regulator 1	X				0	1100	3	0	0	0.98			3	0	0	3	0	0
IPI00830311.1	P15806	Tcf3	transcription factor E2a	X				0	653	11	0	0	0.99			3	0	0	3	0	0
IPI00817019.1	A1A549	Tcf711	transcription factor 3	X				0	599	9	0	0	1.00			3	0	0	3	0	0
IPI00408190.1	Q7TPZ2	Tcof1	Tcof1 protein (Fragment)			X		1	1320	0	0	7		1.00	0	0	5	0	0	5	0
IPI00459493.5	P11983	Tcp1	Isoform 1 of T-complex protein 1 subunit alpha B		X	X	1DE, UF	2	556	0	51	38		1.00	1.00	0	23	18	0	22	18
IPI00118678.1	P11984	Tcp1	T-complex protein 1 subunit alpha A			X		2	556	0	0	35		0.94	0	0	16	0	0	16	0
IPI00331660.5	Q8K3F7	Tdh	L-threonine 3-dehydrogenase, mitochondrial		X	X		0	373	0	30	27		1.00	1.00	0	6	6	0	6	6
IPI00875068.1	Q52L67	Tecr	Gpsn2 protein	X				3	362	0	6	0		1.00		0	2	0	0	2	0
IPI00457624.2	Q8BG87	Tet3	hypothetical protein LOC194388			X		1	1713	0	0	3		0.97	0	0	4	0	0	4	0
IPI00458057.3	Q3URQ0	Tex10	Tex10 protein		X	X		4	928	0	7	9		1.00	1.00	0	4	5	0	4	5
IPI00124700.1	Q62351	Tfrc	Transferrin receptor protein 1	X		X		1	763	0	26	0		1.00	0	18	0	0	17	0	0
IPI00114407.2	O08583	Thoc4	THO complex subunit 4	X	X	X		0	255	49	11	24	1.00	1.00	1.00	15	2	4	12	2	4

IPI00322150.8	Q8C1A5	Thop1	Thimet oligopeptidase		X	X		0	687	0	7	9	1.00	1.00	0	4	5	0	4	5	
IPI00556768.1	Q569Z6	Thrap3	Thyroid hormone receptor-associated protein 3		X	X		0	951	0	5	4	1.00	1.00	0	3	3	0	3	3	
IPI00467123.2	Q9R1X4	Timeless	Protein timeless homolog			X		3	1197	0	0	4		0.99	0	0	3	0	0	3	
IPI00134484.1	P62075	Timm13	Mitochondrial import inner membrane translocase subunit Tim13		X			0	95	0	26	0	1.00		0	3	0	0	2	0	
IPI00132169.1	P62077	Timm8b	Mitochondrial import inner membrane translocase subunit Tim8 B		X			0	83	0	31	0	1.00		0	3	0	0	3	0	
IPI00125513.1	Q9WV98	Timm9	Mitochondrial import inner membrane translocase subunit Tim9			X		0	89	0	44	0	1.00		0	3	0	0	3	0	
IPI00221741.1	Q8BH58	Tipr1	TIP41-like protein		X			1	271	18	0	0	1.00		2	0	0	2	0	0	
IPI00874522.1	P39447	Tjp1	Tight junction protein ZO-1		X			0	1745	12	0	0	1.00		13	0	0	13	0	0	
IPI00323349.2	Q9Z0U1	Tjp2	Tight junction protein ZO-2		X	X	X	0	1167	12	3	6	1.00	1.00	1.00	8	3	5	8	3	5
IPI00137409.3	P40142	Tkt	Transketolase		X	X	X	1	623	32	49	24	1.00	1.00	1.00	12	22	11	12	22	11
IPI00465786.3	P26039	Tln1	Talin-1			X	X	3	2541	0	15	7	1.00	1.00	0	27	10	0	27	10	
IPI00875190.2	Q8BH24	Tm9sf4	Transmembrane 9 superfamily member 4		X			10	710	0	4	0	1.00		0	2	0	0	2	0	
IPI00466570.4	Q9D1D4	Tmed10	Isoform 1 of Transmembrane emp24 domain-containing protein 10		X		1DE	1	219	0	15	0	1.00		0	3	0	0	2	0	
IPI00131606.2	P52875	Tmem165	Transmembrane protein 165			X		6	323	0	9	0	0.99		0	2	0	0	2	0	
IPI00119478.1	Q9JHJ0	Tmod3	Tropomodulin-3		X			0	352	14	0	0	1.00		4	0	0	3	0	0	
IPI00828976.1	Q3UCI5	Tmpo	Thymopoietin		X	X	X	1	452	18	8	13	1.00	1.00	1.00	4	3	4	4	3	4
IPI00754323.1	Q9WUU8-3	Tnip1	Isoform 3 of TNFAIP3-interacting protein 1		X		2DLC	0	646	5	0	0	1.00		2	0	0	2	0	0	
IPI00221523.4	Q8BFY9	Tnp1	Transportin-1			X	X	3	898	0	6	10	1.00	1.00	0	5	7	0	5	7	
IPI00337947.10	B1ATC3	Tnrc6c	trinucleotide repeat containing 6C		X			1	1900	2	0	0	0.94		2	0	0	2	0	0	
IPI00353237.8	Q5SSZ5	Tns3	Isoform 1 of Tensin-3		X		2DLC	1	1440	5	0	0	1.00		4	0	0	4	0	0	
IPI00652758.1	Q3UDC3	Tom1	target of myb1 homolog		X			0	516	8	0	0	1.00		2	0	0	2	0	0	
IPI00315135.3	Q9CPQ3	Tomm22	Mitochondrial import receptor subunit TOM22 homolog			X		1	142	0	37	0	1.00		0	3	0	0	3	0	
IPI00165694.1	Q9CYG7	Tomm34	Mitochondrial import receptor subunit TOM34		X		X	0	309	11	0	16	1.00	1.00	2	0	4	2	0	4	
IPI00474157.4	Q9QYA2	Tomm40	Mitochondrial import receptor subunit TOM40 homolog				X	1	361	0	0	5		1.00	0	0	2	0	0	2	
IPI00133289.1	Q9D173	Tomm7	Mitochondrial import receptor subunit TOM7 homolog			X		1	55	0	44	0	1.00		0	2	0	0	2	0	
IPI00751137.1	Q3TSX8	Tomm70a	Putative uncharacterized protein		X			1	611	0	17	0	1.00		0	8	0	0	8	0	
IPI00109764.2	Q04750	Top1	DNA topoisomerase 1		X	X	X	0	767	5	12	5	1.00	1.00	1.00	2	7	4	2	7	4
IPI00122223.1	Q01320	Top2a	DNA topoisomerase 2-alpha		X	X	X	1	1528	2	26	11	1.00	1.00	1.00	3	36	14	3	35	14
IPI00625441.3	Q62393	Tpd52	tumor protein D52		X		X	0	247	35	0	17	1.00	1.00	1.00	7	0	4	6	0	4
IPI00309878.4	B2RUC1	Tpd52l1	Tpd52l1 protein		X			0	209	11	0	0	1.00		2	0	0	2	0	0	
IPI00755183.1	A2AUD5	Tpd52l2	Tumor protein D52-like 2		X			0	229	34	0	0	1.00		8	0	0	6	0	0	
IPI00467833.5	P17751	Tpi1	Triosephosphate isomerase		X	X	X	0	249	42	61	43	1.00	1.00	1.00	8	11	7	8	11	7
IPI00403987.2	Q8BP43	Tpm1	Isoform 1 of Tropomyosin alpha-1 chain		X		X	2DLC	0	284	31	0	13	1.00	1.00	9	0	4	9	0	4
IPI00874728.1	P58774-2	Tpm2	Isoform 2 of Tropomyosin beta chain		X			2DLC	0	284	28	0	0	1.00		8	0	0	8	0	0
IPI00278611.7	P21107	Tpm3	Isoform 2 of Tropomyosin alpha-3 chain		X	X		2DLC, 1DE	0	284	40	4	0	1.00	1.00	14	2	0	12	2	0
IPI00459570.1	Q8C7C3	Tpm3	Putative uncharacterized protein		X	X		0	248	53	25	0	1.00	1.00	16	6	0	14	6	0	
IPI00169707.2	P21107	Tpm3	Tropomyosin 3, gamma		X	X		0	285	36	4	0	1.00	1.00	16	2	0	12	2	0	
IPI00421223.3	Q6IRU2	Tpm4	Tropomyosin alpha-4 chain		X		X	0	248	30	0	18	1.00	1.00	11	0	4	9	0	3	
IPI00469194.2	Q64514	Tpp2	Tripeptidyl-peptidase 2				X	1	1262	0	0	3		1.00	0	0	3	0	0	3	
IPI00880644.1	Q7M739	Tpr	Translocated promoter region		X	X	X	0	2357	2	14	4	1.00	1.00	1.00	2	32	7	2	32	7
IPI00316430.4	Q3TQN1	Tpst2	tyrosylprotein sulfotransferase 2		X			0	390	9	0	0	0.97		2	0	0	2	0	0	
IPI00420481.5	A2APB8	Tpx2	TPX2, microtubule-associated protein homolog		X			0	745	8	0	0	1.00		3	0	0	3	0	0	
IPI00377298.2	Q6PFR5	Tra2a	transformer-2 alpha		X	X		0	282	16	7	0	1.00	0.97	3	2	0	3	2	0	

IPI00139259.1	P62996	Tra2b	Isoform 1 of Transformer-2 protein homolog beta	X	X		2DLC, 1DE	0	288	22	14	0	1.00	1.00	4	3	0	4	3	0	
IPI00850286.1		Trank1	similar to hCG2042887			X		4	3015	0	0	1		0.91	0	0	3	0	0	3	
IPI00132762.1	Q9CQN1	Trap1	Heat shock protein 75 kDa, mitochondrial Isoform Long of Transcription intermediary factor 1-alpha		X	X		1	706	0	42	17		1.00	1.00	0	22	9	0	21	9
IPI00131130.1	Q64127	Trim24	Isoform 1 of Transcription intermediary factor 1-beta	X			2DLC	0	1051	8	0	0	1.00		6	0	0	6	0	0	
IPI00312128.3	Q62318	Trim28	Isoform 1 of Transcription intermediary factor 1-beta	X	X	X	2DLC, 1DE, UF	0	834	35	19	38	1.00	1.00	1.00	25	16	18	18	15	18
IPI00409904.1	Q99PP7	Trim33	E3 ubiquitin-protein ligase TRIM33	X				0	1142	4	0	0	1.00		4	0	0	4	0	0	
IPI00622738.2	Q99KW3-2	Triobp	TRIO and F-actin-binding protein	X				0	2018	3	0	0	1.00		4	0	0	4	0	0	
IPI00229927.2	Q8CJ53	Trip10	Cdc42-interacting protein 4	X				0	603	23	0	0	1.00		9	0	0	9	0	0	
IPI00380829.3	B2RY51	Trip11	Thyroid hormone receptor interactor 11	X				0	1976	3	0	0	0.99		3	0	0	3	0	0	
IPI00623570.3		Trip12	thyroid hormone receptor interactor 12		X	X		3	2025	0	2	3		1.00	1.00	0	3	5	0	3	5
IPI00874743.1	Q8CE96	Trm6	59 kDa protein	X				0	526	17	0	0	1.00		5	0	0	4	0	0	
IPI00719897.1	Q792Z1	Try10	trypsin 10	X		X		0	246	19	0	15	1.00		1.00	5	0	2	4	0	2
IPI00620969.2	Q61037	Tsc2	Tuberin			X		11	1814	0	0	4		0.97	0	0	4	0	0	4	
IPI00320543.5	Q8BMZ5	Tsen34	Isoform 1 of tRNA-splicing endonuclease subunit Sen34	X			2DLC	0	316	9	0	0	1.00		2	0	0	2	0	0	
IPI00113052.1	Q9CZR8	Tsfm	Elongation factor Ts, mitochondrial			X		0	324	0	0	15		0.99	0	0	2	0	0	2	
IPI00118729.1	Q99NF3	Tsga14	Isoform 1 of Centrosomal protein of 41 kDa	X			2DLC	0	373	8	0	0	1.00		2	0	0	2	0	0	
IPI00664419.1	Q5DTH5	Tshz1	Teashirt homolog 1			X		0	1084	0	0	6		0.99	0	0	4	0	0	4	
IPI00124684.1	Q62348	Tsn	Translin		X			1	228	0	19	0		1.00	0	4	0	0	4	0	
IPI00130475.1	Q91Z38	Ttc1	Tetratricopeptide repeat protein 1	X				0	292	24	0	0	1.00		4	0	0	4	0	0	
IPI00466645.3	Q62187	Ttf1	Transcription termination factor 1	X				0	859	7	0	0	1.00		4	0	0	4	0	0	
IPI00845554.1	A4Q9F4	Tll11	Tubulin polyglutamylase TLL11	X				2	727	6	0	0	1.00		3	0	0	3	0	0	
IPI00756257.1	A2ASS6	Ttn	Isoform 1 of Titin		X	X	1DE, UF	5	35213	0	0	1		1.00	1.00	0	7	27	0	7	27
IPI00110753.1	P68369	Tuba1a	Tubulin alpha-1A chain	X	X	X		0	451	27	67	44	1.00	1.00	1.00	8	28	15	8	23	15
IPI00117348.4	P05213	Tuba1b	Tubulin alpha-1B chain	X	X			0	451	27	53	0	1.00	1.00	8	17	0	8	15	0	
IPI00403810.2	P68373	Tuba1c	Tubulin alpha-1C chain	X	X			0	449	28	68	0	1.00	1.00	8	26	0	8	23	0	
IPI00117350.1	P68368	Tuba4a	Tubulin alpha-4A chain	X	X	X		0	448	18	52	42	0.00	1.00	1.00	5	22	14	5	19	14
IPI00109061.1	Q9CWF2	Tubb2b	Tubulin beta-2B chain	X	X	X		0	445	10	62	48	1.00	1.00	1.00	3	30	17	3	21	15
IPI00169463.1	P68372	Tubb2c	Tubulin beta-2C chain	X	X	X		0	445	10	69	46	1.00	1.00	1.00	3	30	18	3	21	15
IPI00112251.1	Q9ERD7	Tubb3	Tubulin beta-3 chain	X	X	X		0	450	4	35	34	0.73	1.00	1.00	2	19	12	2	12	11
IPI00109073.5	Q9D6F9	Tubb4	Tubulin beta-4 chain	X	X			0	444	6	57	0	0.01	0.99	1	25	0	1	17	0	
IPI00117352.1	P99024	Tubb5	Tubulin beta-5 chain	X	X	X		0	444	10	73	59	1.00	1.00	1.00	3	34	21	3	23	18
IPI00122928.1	Q922F4	Tubb6	Tubulin beta-6 chain	X	X	X		0	447	4	28	32	0.73	1.00	1.00	2	15	10	2	10	10
IPI00342749.3	Q6PAM1	Txlna	Isoform 1 of Alpha-taxilin	X			2DLC	0	554	19	0	0	1.00		5	0	0	5	0	0	
IPI00226993.5	P10639	Txn1	Thioredoxin	X	X	X		0	105	23	35	30	1.00	1.00	1.00	2	3	3	2	3	3
IPI00133110.1	Q9CQU0	Txndc12	Thioredoxin domain-containing protein 12	X				0	170	54	0	0	1.00		8	0	0	6	0	0	
IPI00471077.3	Q9CQM5	Txndc17	Thioredoxin domain-containing protein 17	X				0	123	36	0	0	1.00		3	0	0	3	0	0	
IPI00163011.2	Q91W90	Txndc5	Thioredoxin domain-containing protein 5	X				1	417	21	0	0	1.00		6	0	0	6	0	0	
IPI00654054.1	Q3UNH3	Txn1	Putative uncharacterized protein (Fragment)	X		X		0	301	19	0	9	1.00	0.98	5	0	2	4	0	2	
IPI00133298.2	Q3TBP4	Txn14a	Putative uncharacterized protein	X				0	220	31	0	0	1.00		4	0	0	3	0	0	
IPI00776252.1	Q9JMH6	Txnrd1	Thioredoxin reductase 1, cytoplasmic		X	X		1	613	0	8	8		1.00	1.00	0	3	3	0	3	3
IPI00130734.1	P07607	Tyms	Thymidylate synthase	X				1	307	7	0	0	0.97		2	0	0	2	0	0	
IPI00113746.3	P26369	U2af2	Splicing factor U2AF 65 kDa subunit	X	X	X		0	475	24	12	16	1.00	1.00	1.00	6	4	5	6	4	5
IPI00462482.3	Q3TW96	Uap11	Isoform 1 of UDP-N-acetylhexosamine pyrophosphorylase-like protein 1	X			2DLC	1	507	5	0	0	0.98		2	0	0	2	0	0	
IPI00123313.1	Q02053	Uba1	Ubiquitin-like modifier-activating enzyme 1		X	X		5	1058	0	35	17		1.00	1.00	0	24	13	0	24	13
IPI00130173.1	Q9Z1F9	Uba2	SUMO-activating enzyme subunit 2	X	X	X		2	638	14	24	19	1.00	1.00	1.00	7	10	6	6	9	6
IPI00457533.2	Q91VX2	Ubp2	Ubiquitin-associated protein 2	X				0	1132	16	0	0	1.00		11	0	0	9	0	0	

IPI00761172.1	Q80X50-2	Ubp2l	Isoform 2 of Ubiquitin-associated protein 2-like	X	X	X	2DLC	0	1014	25	3	5	1.00	1.00	1.00	14	2	3	13	2	3
IPI00133581.1	Q9D1C1	Ube2c	Ubiquitin-conjugating enzyme E2 C			X		0	179	0	0	13			1.00	0	0	2	0	0	2
IPI00322440.5	P610B7	Ube2k	Ubiquitin-conjugating enzyme E2 K		X			1	200	0	43	0			1.00	0	6	0	0	6	0
IPI00453803.5	Q6ZPJ3	Ube2o	Ubiquitin-conjugating enzyme E2 O		X			1	1288	0	5	0			1.00	0	3	0	0	3	0
IPI00113257.3	Q9CZY3	Ube2v1	Isoform 1 of Ubiquitin-conjugating enzyme E2 variant 1	X	X		2DLC	0	147	39	18	0	1.00	1.00		5	3	0	4	3	0
IPI00311591.3	Q3UE37	Ube2z	Ubiquitin-conjugating enzyme E2 Z			X		0	356	0	0	8			0.94	0	0	3	0	0	2
IPI00131915.2	Q78JW9	Ubfd1	Ubiquitin domain-containing protein UBFD1	X				1	368	20	0	0	1.00			5	0	0	4	0	0
IPI00387416.1	Q9QZM0	Ubqln2	Ubiquilin-2	X				1	638	7	0	0	0.91			3	0	0	3	0	0
IPI00648087.1	Q6WKZ8-2	Ubr2	E3 ubiquitin-protein ligase UBR2			X		8	1755	0	0	5			0.99	0	0	4	0	0	4
IPI00648709.2	A2AN08-5	Ubr4	E3 ubiquitin-protein ligase UBR4		X	X		15	5208	0	5	0			1.00	0.94	0	18	2	0	18
IPI00882371.1	Q80TP3	Ubr5	309 kDa protein			X		4	2799	0	0	2			1.00	0	0	3	0	0	3
IPI00225151.1	Q8BU04	Ubr7	Putative E3 ubiquitin-protein ligase UBR7	X				0	425	6	0	0	1.00			3	0	0	3	0	0
IPI00123589.1	Q922Y1	Ubxn1	UBX domain-containing protein 1	X		X		0	297	39	0	10	1.00		1.00	7	0	2	7	0	2
IPI00653686.1	Q3TCH2	Uchl1	Putative uncharacterized protein (Fragment)			X	X	0	225	0	33	17			1.00	1.00	0	3	2	0	3
IPI00311369.1	Q9JKB1	Uchl3	Ubiquitin carboxyl-terminal hydrolase isozyme L3	X	X	X		0	230	22	15	20	1.00	1.00	1.00	3	2	4	3	2	4
IPI00129471.3	A2AN37	Uck1	uridine-cytidine kinase 1			X		1	283	0	0	12			0.96	0	0	2	0	0	2
IPI00121203.1	Q99PM9	Uck2	Uridine-cytidine kinase 2			X		2	261	0	0	23			1.00	0	0	3	0	0	3
IPI00880407.1	P61961	Ufm1	Ubiquitin-fold modifier 1			X		0	91	0	0	47			1.00	0	0	2	0	0	2
IPI00762897.2	Q6P5E4	Ugg1	UDP-glucose:glycoprotein glucosyltransferase 1			X		4	1551	0	5	0			1.00	0	5	0	0	5	0
IPI00417180.3	Q5FW80	Ugt1a10	UDP glycosyltransferase 1 family, polypeptide A10				X	2	530	0	0	13			0.97	0	0	4	0	0	4
IPI00130200.6	Q8VDF2	Uhrf1	E3 ubiquitin-protein ligase UHRF1		X			0	782	0	5	0			1.00	0	2	0	0	2	0
IPI00121552.2	P13439	Umps	Uridine 5'-monophosphate synthase	X	X			0	481	0	11	20			1.00	1.00	0	3	5	0	3
IPI00420949.3	Q9EPU0	Upf1	Regulator of nonsense transcripts 1	X	X	X		0	1124	4	3	6	1.00	1.00	1.00	3	3	6	3	3	6
IPI00323353.3	P52624	Upp1	Uridine phosphorylase 1	X	X	X		2	311	14	51	36	1.00	1.00	1.00	2	9	6	2	9	6
IPI00653598.2	Q3TV75	Uqrc1	ubiquinol-cytochrome c reductase core protein 1 precursor		X			0	480	0	11	0			1.00	0	3	0	0	3	0
IPI00119138.1	Q9DB77	Uqrc2	Cytochrome b-c1 complex subunit 2, mitochondrial		X	X		0	453	0	16	8			1.00	1.00	0	6	2	0	5
IPI00133240.1	Q9CR68	Uqrcfs1	Cytochrome b-c1 complex subunit Rieske, mitochondrial		X	X		0	274	0	31	19			1.00	1.00	0	6	3	0	6
IPI00668766.3	Q571H0	Urb1	Nucleolar pre-ribosomal-associated protein 1		X			11	2378	0	4	0			1.00	0	6	0	0	6	0
IPI00128071.7	Q9Z1Z0	Uso1	General vesicular transport factor p115		X			3	959	0	3	0			1.00	0	2	0	0	2	0
IPI00420601.5	P52479	Usp10	Ubiquitin carboxyl-terminal hydrolase 10	X	X	X		0	792	13	9	6	1.00	1.00	1.00	7	5	3	7	5	3
IPI00154012.1	Q8R5H1	Usp15	Ubiquitin carboxyl-terminal hydrolase 15			X		0	981	0	0	7			1.00	0	0	3	0	0	3
IPI00420483.4	Q3UJD6	Usp19	Ubiquitin carboxyl-terminal hydrolase 19			X		2	1360	0	0	2			1.00	0	0	2	0	0	2
IPI00668474.3	Q6ZQ93-1	Usp34	Ubiquitin carboxyl-terminal hydrolase 34			X		4	3393	0	1	0			1.00	0	2	0	0	2	0
IPI00457815.3	Q3TIX9	Usp39	U4/U6.U5 tri-snRNP-associated protein 2			X		0	564	0	0	10			1.00	0	0	4	0	0	4
IPI00884486.2	Q8BTL9	Usp4	ubiquitin specific protease 4	X		X		0	962	3	0	3	1.00		1.00	2	0	3	2	0	3
IPI00463367.2	Q6A4J8-2	Usp7	Ubiquitin carboxyl-terminal hydrolase 7		X	X		0	1143	0	6	6			1.00	1.00	0	5	3	0	5
IPI00798468.1	A2AD18	Usp9x	Ubiquitin carboxyl-terminal hydrolase		X	X		8	2558	0	15	3			1.00	1.00	0	30	7	0	29
IPI00454162.3	Q6J1H4	Utf1	Undifferentiated embryonic cell transcription factor 1		X	X		1	339	0	40	15			1.00	1.00	0	7	4	0	7

IPI00462762.2	Q640M1	Utp14a	Isoform 1 of U3 small nucleolar RNA-associated protein 14 homolog A	X			2DLC	0	767	21	0	0	1.00		16	0	0	14	0	0	
IPI00226889.1	Q8C7V3	Utp15	U3 small nucleolar RNA-associated protein 15 homolog	X				1	528	5	0	0	1.00		2	0	0	2	0	0	
IPI00353579.1	Q5SSI6	Utp18	U3 small nucleolar RNA-associated protein 18 homolog	X		X		1	552	4	0	14	1.00	1.00	2	0	4	2	0	4	
IPI00850851.1	Q5XG71	Utp20	down-regulated in metastasis		X	X		9	2789	0	7	3	1.00	1.00	0	14	7	0	14	7	
IPI00119776.1	Q9J1I3	Utp3	Something about silencing protein 10			X		0	469	0	0	6		0.97	0	0	3	0	0	3	
IPI00461832.2	Q8VCY6	Utp6	U3 small nucleolar RNA-associated protein 6 homolog	X				1	597	11	0	0	1.00		5	0	0	5	0	0	
IPI00125267.4	Q9WV55	Vapa	Vesicle-associated membrane protein-associated protein A			X		0	249	0	0	16		1.00	0	0	4	0	0	4	
IPI00130353.5	Q9Z1Q9	Vars	Valyl-tRNA synthetase		X	X		3	1263	0	18	11	1.00	1.00	0	12	6	0	12	6	
IPI00624876.3	P70460	Vasp	Vasodilator-stimulated phosphoprotein			X		0	375	0	0	6		0.95	0	0	2	0	0	2	
IPI00121851.2	P61759	Vbp1	Prefoldin subunit 3	X				0	196	16	0	0	1.00		3	0	0	2	0	0	
IPI00405227.3	Q64727	Vcl	Vinculin			X		0	1066	0	0	5		1.00	0	0	4	0	0	4	
IPI00622235.5	Q01853	Vcp	Transitional endoplasmic reticulum ATPase	X	X	X		1	806	28	37	37	0.11	1.00	1.00	21	18	20	17	18	20
IPI00122549.1	Q60932	Vdac1	Voltage-dependent anion-selective channel protein 1		X	X		0	296	0	52	34		1.00	1.00	0	10	7	0	10	7
IPI00122547.1	Q60930	Vdac2	Voltage-dependent anion-selective channel protein 2		X	X		0	295	0	32	39		1.00	1.00	0	7	8	0	7	8
IPI00122548.3	Q5EBQ0	Vdac3	Voltage-dependent anion channel 3		X	X		1	284	0	23	15		1.00	1.00	0	4	3	0	4	3
IPI00227299.6	P20152	Vim	Vimentin	X	X	X		0	466	52	8	13	1.00	1.00	1.00	20	4	5	18	4	5
IPI00551411.5	Q8BX70	Vps13c	Vacuolar protein sorting-associated protein 13C		X			10	3748	0	1	0		1.00		0	2	0	0	2	0
IPI00111181.1	Q9EQH3	Vps35	Vacuolar protein sorting-associated protein 35		X	X		3	796	0	13	3		1.00	1.00	0	9	2	0	9	2
IPI00153207.3	Q8R0J7	Vps37b	Vacuolar protein sorting-associated protein 37B	X				0	285	13	0	0	1.00		2	0	0	2	0	0	
IPI00133700.2	P46467	Vps4b	Vacuolar protein sorting-associated protein 4B	X				0	444	9	0	0	0.97		3	0	0	3	0	0	
IPI00132936.1	Q80X41	Vrk1	Serine/threonine-protein kinase VRK1	X				0	440	27	0	0	1.00		8	0	0	7	0	0	
IPI00221817.5	Q99KC8	Vwa5a	von Willebrand factor A domain-containing protein 5A			X		0	793	0	0	3		1.00	0	0	2	0	0	2	
IPI00113738.2	P32921	Wars	Tryptophanyl-tRNA synthetase, cytoplasmic	X		X		2	481	6	0	9	1.00	1.00	2	0	3	2	0	3	
IPI00314748.7	O88342	Wdr1	WD repeat-containing protein 1		X			1	606	0	0	10		1.00	0	0	5	0	0	5	
IPI00121562.1	Q9JJA4	Wdr12	Ribosome biogenesis protein WDR12		X			0	423	0	0	19		1.00	0	0	4	0	0	4	
IPI00623264.2		Wdr17	WD repeat domain 17		X			0	1297	0	0	3		0.98	0	0	2	0	0	2	
IPI00136252.3	Q4VBE8	Wdr18	WD repeat-containing protein 18		X			1	431	0	0	10		1.00	0	0	2	0	0	2	
IPI00226275.2	Q8C6G8	Wdr26	WD repeat-containing protein 26	X				1	641	6	0	0	1.00		2	0	0	2	0	0	
IPI00876121.1	Q3TAA9	Wdr36	WD repeat domain 36			X		2	899	0	0	4		0.95	0	0	3	0	0	3	
IPI00849919.1	Q6ZQL4	Wdr43	WD repeat domain 43		X	X		0	719	0	8	8	1.00	1.00	0	5	5	0	5	5	
IPI00129141.1	Q9Z0H1	Wdr46	WD repeat-containing protein 46	X	X			0	622	19	5	0	1.00	1.00	7	2	0	6	2	0	
IPI00139957.1	P61965	Wdr5	WD repeat-containing protein 5	X				0	334	9	0	0	0.99		2	0	0	2	0	0	
IPI00117632.2	Q3TEZ2	Wdr6	Putative uncharacterized protein			X		0	1125	0	0	7		1.00	0	0	4	0	0	4	
IPI00112320.4	Q9ERF3	Wdr61	WD repeat-containing protein 61		X			1	305	0	0	12		1.00	0	0	2	0	0	2	
IPI00122120.1	Q8VCG3	Wdr74	WD repeat-containing protein 74	X				0	384	11	0	0	1.00		3	0	0	3	0	0	
IPI00114819.3	Q99J09	Wdr77	Methylosome protein 50			X		0	342	0	0	9		1.00	0	0	2	0	0	2	
IPI00132977.1	Q9D0R9	Wdr89	WD repeat-containing protein 89	X				0	386	8	0	0	0.98		2	0	0	2	0	0	
IPI00229685.2	Q8CHP5	Wibg	Partner of Y14 and mago	X				0	203	52	0	0	1.00		7	0	0	7	0	0	
IPI00120744.1	Q9DCD2	Xab2	Pre-mRNA-splicing factor SYF1	X				0	855	9	0	0	1.00		7	0	0	6	0	0	
IPI00170021.1	Q8K2X7	Xpa	Xpa protein	X				0	279	13	0	0	1.00		2	0	0	2	0	0	
IPI00420231.4	Q3UE92	Xpnpep1	X-prolyl aminopeptidase (Aminopeptidase P) 1, soluble		X	X		2	666	0	7	8		1.00	1.00	0	3	4	0	3	4

IPI00395038.3	Q6P5F9	Xpo1	Exportin-1		X	X		2	1071	0	21	10	1.00	1.00	0	17	8	0	17	8	
IPI00321154.4	P27641	Xrcc5	ATP-dependent DNA helicase 2 subunit 2		X			1	732	0	6	0	1.00		0	2	0	0	2	0	
IPI00132424.4	P23475	Xrcc6	ATP-dependent DNA helicase 2 subunit 1	X	X			0	608	20	5	0	1.00	1.00	11	2	0	10	2	0	
IPI00120046.1	Q9DBR1	Xrn2	5'-3' exoribonuclease 2	X				1	951	5	0	0	1.00		4	0	0	4	0	0	
IPI00108989.4	Q91WL1	Yap1	Yes-associated protein 1	X				0	488	13	0	0	1.00		5	0	0	4	0	0	
IPI00314153.4	A2A7S7	Yars	Tyrosyl-tRNA synthetase	X		X		0	564	12	0	11	0.99	1.00	3	0	5	3	0	5	
IPI00896734.1	B2RUF0	Ybx2	Y box protein 2	X				1	359	9	0	0	1.00		3	0	0	3	0	0	
IPI00621973.3	Q9R0I7	Ylpm1	YLP motif containing 1	X				0	1941	2	0	0	1.00		2	0	0	2	0	0	
IPI00752810.1	A2AWN8	Ythdf1	YTH domain family 1	X				0	586	11	0	0	1.00		3	0	0	3	0	0	
IPI00314865.9	Q3UNH5	Ythdf2	Putative uncharacterized protein	X				0	584	5	0	0	1.00		2	0	0	2	0	0	
IPI00227149.4	Q8BYK6-3	Ythdf3	YTH domain family protein 3	X				0	596	9	0	0	1.00		3	0	0	3	0	0	
IPI00230682.6	Q9CQV8	Ywhab	14-3-3 protein beta/alpha	X	X	X		1	246	4	48	42	0.00	1.00	1.00	2	13	9	1	12	9
IPI00118384.1	P62259	Ywhae	14-3-3 protein epsilon	X	X	X		1	255	4	55	45	0.00	1.00	1.00	2	16	11	1	14	10
IPI00230707.6	P61982	Ywhag	14-3-3 protein gamma	X	X	X		0	247	10	57	49	1.00	1.00	1.00	3	13	11	2	12	11
IPI00227392.5	P68510	Ywhah	14-3-3 protein eta	X	X	X		0	246	4	38	28	0.00	1.00	1.00	2	11	7	1	10	7
IPI00853924.1	P68254	Ywhaq	14-3-3 protein theta	X	X	X		0	303	9	43	42	0.99	1.00	1.00	3	13	12	2	12	12
IPI00116498.1	P63101	Ywhaz	14-3-3 protein zeta/delta	X	X	X		1	245	4	53	52	0.00	1.00	1.00	2	13	11	1	12	11
IPI00421162.4	Q6NZF1	Zc3h11a	Zinc finger CCCH domain-containing protein 11A	X				0	792	14	0	0	1.00		6	0	0	6	0	0	
IPI00515528.2		Zc3h13	RIKEN cDNA 3110050K21	X				0	1729	2	0	0	1.00		2	0	0	2	0	0	
IPI00461416.4	Q8BJ05	Zc3h14	Isoform 1 of Zinc finger CCCH domain-containing protein 14	X		2DLC		0	735	9	0	0	1.00		4	0	0	3	0	0	
IPI00223503.1	Q8BPK2	Zcchc3	zinc finger, CCHC domain containing 3	X				0	400	15	0	0	1.00		4	0	0	3	0	0	
IPI00458460.1	Q88466	Zfp106	Zinc finger protein 106	X				1	1888	2	0	0	1.00		2	0	0	2	0	0	
IPI00387481.3	Q62394	Zfp185	zinc finger protein 185	X				0	486	14	0	0	1.00		5	0	0	5	0	0	
IPI00125510.1	Q9JMD0	Zfp207	Zinc finger protein 207	X		X		0	495	0	0	11		1.00	0	0	3	0	0	3	
IPI00469594.3	Q6IQX8	Zfp219	zinc finger protein 219	X		X		0	726	29	0	4	1.00	0.98	12	0	2	12	0	2	
IPI00124803.1	Q62384	Zfp259	Zinc finger protein ZPR1	X				0	459	11	0	0	1.00		4	0	0	4	0	0	
IPI00116926.4	Q99L15	Zfp281	Zinc finger protein 281	X				0	893	13	0	0	1.00		6	0	0	6	0	0	
IPI00282808.7	B0V2M3	Zfp318	zinc finger protein 318	X				0	2237	1	0	0	0.99		2	0	0	2	0	0	
IPI00411014.1	Q6NXX2	Zfp532	Zinc finger protein 532	X				0	1036	11	0	0	1.00		6	0	0	6	0	0	
IPI00112984.4	Q6P9P9	Zfp655	Zinc finger protein 655	X				0	541	8	0	0	1.00		3	0	0	3	0	0	
IPI00320645.1	Q8R1N0	Zfp830	Zinc finger protein 830	X				0	363	18	0	0	1.00		4	0	0	4	0	0	
IPI00377729.3	Q80U44	Zfyve16	Zinc finger FYVE domain-containing protein 16			X		2	1528	0	0	4		0.94	0	0	4	0	0	4	
IPI00119998.6	Q9DAZ9	Zfyve19	Zinc finger FYVE domain-containing protein 19	X				0	389	15	0	0	1.00		3	0	0	3	0	0	
IPI00755765.1	Q1WG82	Zglp1	GATA-like protein 1			X		0	266	0	0	14		0.94	0	0	3	0	0	3	
IPI00132099.1	Q9CPW7	Zmat2	Zinc finger matrin-type protein 2	X				0	199	19	0	0	0.99		2	0	0	2	0	0	
IPI00354840.5	Q8CIE2	Zmiz2	Zinc finger MIZ domain-containing protein 2			X		2	920	0	0	7		1.00	0	0	2	0	0	2	
IPI00896685.1	B2RW16	Znhit6	MCG7779	X				0	460	12	0	0	1.00		3	0	0	3	0	0	
IPI00756815.2		Zscan10	zinc finger and SCAN domains 10	X				0	782	10	0	0	1.00		4	0	0	4	0	0	
IPI00228360.3	Q62523	Zyx	Zyxin	X				0	564	7	0	0	0.99		2	0	0	2	0	0	
IPI00117687.1	P59708	0610009D07Rik	Pre-mRNA branch site protein p14	X	X			0	125	30	20	0	1.00	1.00	3	2	0	3	2	0	
IPI00265101.6	Q9DCT6	0610010K14Rik	Uncharacterized potential DNA-binding protein C17orf49 homolog	X				0	171	18	0	0	1.00		2	0	0	2	0	0	
IPI00624581.3	Q3UHU5	1110012J17Rik	Uncharacterized protein KIAA0802	X				0	1945	2	0	0	1.00		2	0	0	2	0	0	
IPI00153381.1	Q8R111	1110020P15Rik	Cytochrome b-c1 complex subunit 9			X		1	64	0	38	0		1.00	0	2	0	0	2	0	
IPI00119018.1	Q9DAT2	1600027N09Rik	Isoform 1 of MRG-binding protein	X		2DLC		0	218	16	0	0	1.00		2	0	0	2	0	0	
IPI00758326.1	A2ANS5	1700037H04Rik	Novel protein	X				0	177	19	0	0	1.00		2	0	0	2	0	0	
IPI00317684.8	Q8CCJ3	1810074P20Rik	UPF0555 protein KIAA0776			X		3	793	0	0	5		0.97	0	0	4	0	0	4	
IPI00110487.1	Q9D7M1	2310003C23Rik	Protein C20orf11 homolog	X				0	228	24	0	0	1.00		3	0	0	3	0	0	
IPI00173157.4	Q9CR41	2310003F16Rik	Isoform 1 of Huntingtin-interacting protein K	X		2DLC		0	129	49	0	0	1.00		16	0	0	8	0	0	
IPI00110208.1	Q9D7E4	2310011J03Rik	UPF0449 protein C19orf25 homolog	X				0	109	18	0	0	1.00		2	0	0	2	0	0	

IPI00225761.5	Q80VC9	2310057J16Rik	Calmodulin-regulated spectrin-associated protein 3	X		1	1252	0	0	5		0.99	0	0	2	0	0	2
IPI00553266.3	Q9CS00	2510012J08Rik	Uncharacterized protein C19orf29 homolog	X		0	772	9	0	0	1.00		6	0	0	6	0	0
IPI00225952.1	Q8C5P7	2610019F03Rik	Isoform 1 of Uncharacterized protein C8orf42 homolog	X	2DLC	0	182	32	0	0	1.00		4	0	0	4	0	0
IPI00330623.3	Q8BMC4	2610027L16Rik	Pumilio domain-containing protein C14orf21 homolog		X	2	636	0	0	13		0.96	0	0	4	0	0	4
IPI00132352.2	Q9D0B6	2610029G23Rik	Isoform 1 of UPF0368 protein Cxorf26 homolog	X	2DLC	0	198	18	0	0	1.00		3	0	0	3	0	0
IPI00221678.1	Q8BGR1	2610034M16Rik	MCG20355	X		0	1238	2	0	0	0.94		2	0	0	2	0	0
IPI00269223.1	Q91V83	2610036D13Rik	Uncharacterized protein KIAA0406 homolog	X		2	1085	4	0	0	0.92		2	0	0	2	0	0
IPI00830853.1	Q6NV83	2610101N10Rik	U2-associated protein SR140		X	0	1029	0	2	0		0.99	0	2	0	0	2	0
IPI00408270.2	B1AV75	2610301B20Rik	Novel protein	X		0	210	11	0	0	1.00		2	0	0	2	0	0
IPI00132456.1	Q9CQE8	2700060E02Rik	UPF0568 protein C14orf166 homolog	X	X	0	244	32	0	9	1.00	0.99	6	0	2	5	0	2
IPI00845697.1	Q9CZF4	2810004N23Rik	hypothetical protein LOC66523	X		0	281	19	0	0	1.00		4	0	0	4	0	0
IPI00354163.6	Q5DTW7	2810474O19Rik	Uncharacterized protein C12orf35 homolog	X		0	1521	3	0	0	0.98		2	0	0	2	0	0
IPI00752148.1	A2AN41	2900010J23Rik	RIKEN cDNA 2900010J23	X		0	121	62	0	0	1.00		8	0	0	6	0	0
IPI00758006.1	Q9D6E6	2900073G15Rik	Putative uncharacterized protein	X		0	172	23	0	0	1.00		3	0	0	3	0	0
IPI00109809.4	Q9D1F5	3010026O09Rik	UPF0544 protein C5orf45 homolog	X		0	335	14	0	0	1.00		3	0	0	3	0	0
IPI00110456.2	Q9CXL3	3110082I17Rik	Isoform 1 of Uncharacterized protein C7orf50 homolog	X	2DLC	0	195	35	0	0	1.00		5	0	0	5	0	0
IPI00316088.3	A2TJV2	4432412L15Rik	Paralemmin-3		X	0	734	0	3	0		1.00	0	2	0	0	2	0
IPI00222228.5		4732456N10Rik	Putative uncharacterized protein	X		0	538	12	0	0	1.00		9	0	0	8	0	0
IPI00137643.4	Q9D513	4930528F23Rik	Uncharacterized protein C16orf73 homolog		X	0	470	0	0	6		0.97	0	0	2	0	0	2
IPI00221782.3	Q8BGY7	4933403F05Rik	Uncharacterized protein C18orf19 homolog		X	2	273	0	13	0		0.99	0	2	0	0	2	0
IPI00381415.6	A2AG58	A830080D01Rik	Uncharacterized protein CXorf23 homolog	X		0	752	12	0	0	1.00		7	0	0	6	0	0
IPI00808177.1		AA623943	Hypothetical protein		X	1	149	0	22	0		0.92	0	2	0	0	2	0

Table s3. Peptides identified in the current study. Listed are the IPI and UniProt accession numbers, gene symbol, protein name, and the peptide sequences identified in each of the three proteomic strategies. All details regarding peptides identified, including spectra, are provided in the PRIDE database.

IPI	UNIPROT	GENE	Protein	Peptides - 2DLC	Peptides - 1DE	Peptides - UF
IPI00117687.1	P59708	0610009D07Rik	Pre-mRNA branch site protein p14	GTAYVVYEDIFDAK,ITAEEMYDIFGK,Y LVVLYYNANR	GTAYVVYEDIFDAK,YLVVLYYNA NR	
IPI00265101.6	Q9DCT6	0610010K14Rik	Isoform 1 of Uncharacterized potential DNA-binding protein C17orf49 homolog	LGELTMQLHPVSDSSPAGAK,WTETEI EMLR		
IPI00624581.3	Q3UHU5	1110012J17Rik	Isoform 1 of Uncharacterized protein KIAA0802	TAGTQTIQTISVGLQTEALR,QDLSAPP GYLTENVAR		
IPI00153381.1	Q8R111	1110020P15Rik	Cytochrome b-c1 complex subunit 9		AFDQGADAIYEHINEGK,LYSLLFR	
IPI00119018.1	Q9DAT2	1600027N09Rik	Isoform 1 of MRG-binding protein	NFVLPDEIIQEVR,NSSDLGCKEGQTA ERTGSLTR		
IPI00758326.1	A2ANS5	1700037H04Rik	Novel protein	LLSVTPTSEGYSIK,LHDSVVMVTQES DNSFLVK		
IPI00317684.8	Q8CCJ3	1810074P20Rik	Isoform 1 of UPF0555 protein KIAA0776			QLVSQNK,KSSVTEE,GLFSAITRPT PVNSLVSK,ELQELSLSIK
IPI00110487.1	Q9D7M1	2310003C23Rik	Protein C20orf11 homolog	LIMNYLVTEGFK,GQIQEAIALINSLHPE LLDTNR,ETEAALEFAQTQLAEQGEES R		
IPI00173157.4	Q9CR41	2310003F16Rik	Isoform 1 of Huntingtin-interacting protein K	EIQSSNLETAMSVIGDR,VTDYAEEKEI QSSNLETAMSVIGDR,SLREHMGNNV EALIALTN,EHMGNNVEALIALTN,EDLE LIMTEMEISR,VTDYAEEKEIQSSNLET AMSVIGDRR,KEDLELIMTEMEISR,VTI KKEDLELIMTEMEISR		
IPI00110208.1	Q9D7E4	2310011J03Rik	UPF0449 protein C19orf25 homolog	VVLPTRPAPPTVEQILEDVDR,PAPPTVE QILEDVDR		
IPI00225761.5	Q80VC9	2310057J16Rik	Isoform 1 of Calmodulin-regulated spectrin-associated protein 3			VNLVLLAEMYMCFEVLKPDFVQA K,APCFPNVTTLQDLASGAALAATIH CYCPQLLR
IPI00553266.3	Q9CS00	2510012J08Rik	Uncharacterized protein C19orf29 homolog	TYNQLQVIFQGIEGK,LKQEQGVESEP LFPILK,QQGVESEPLFPILK,FNIFYPD LIR,DMTTITEDEIAK,EGVNASVSSDVQ SVFK		
IPI00225952.1	Q8C5P7	2610019F03Rik	Uncharacterized protein C8orf42 homolog	LTAEDVVADHTEDDR,EATSLFNKDDE EHLLETSR,SGFWDALVLK,VLLDEPPE EEDVLR		
IPI00330623.3	Q8BMC4	2610027L16Rik	Pumilio domain-containing protein C14orf21 homolog			SLSALTGPQLLTLAQSPAGSHVFDA ILSSPSVTHK,TLLQVLGGTLESER, AEQAPEALPHLSPEALGYFRR,VLD AIWGAALGAR
IPI00132352.2	Q9D0B6	2610029G23Rik	Isoform 1 of UPF0368 protein Cxorf26 homolog	IQFFAIEIAR,LISSVDPQFLK,FEGIVED YNYGTLLR		
IPI00221678.1	Q8BGR1	2610034M16Rik	MCG20355	KQNTFINICHPNSIGK,LEGAEVDIDNSL GK		

IPI00269223.1	Q91V83	2610036D13Rik	Uncharacterized protein KIAA0406 homolog	KQAAMILNELVVGAAGLDVEDIHNK,ALIQVLELEVTDVKMVEER	
IPI00830853.1	Q6NV83	2610101N10Rik	Isoform 1 of U2-associated protein SR140		MIEFVVR,LQNIFLGLVNIIEEK
IPI00408270.2	B1AV75	2610301B20Rik	Novel protein	IVSYNDYMWWDK,DLDELLDEVETK	
IPI00132456.1	Q9CQE8	2700060E02Rik	UPF0568 protein C14orf166 homolog	QEAIWLLGLAVR,HILGFDTGDAVLN EAAQILR,AGVMALANLLQIQR,INEAIV AVQAIADPK,NAEPLINLDVNNPDFK	AGVMALANLLQIQR,KNTDNAAK
IPI00845697.1	Q9CZF4	2810004N23Rik	hypothetical protein LOC66523	TLYDLGETEGETEYK,LREELQSAPAA PSEVPVTTAVSLSPPK,DVDIQEFNLEK ,EELQSAPAAPSEVPVTTAVSLSPPK	
IPI00354163.6	Q5DTW7	2810474O19Rik	Isoform 1 of Uncharacterized protein C12orf35 homolog	KYTYPNTNQVIDTNATK,QPYSESVR PSGDGVQALVQNNQEK	
IPI00752148.1	A2AN41	2900010J23Rik	RIKEN cDNA 2900010J23, isoform CRA_a	HDMLDKEISQLIAEGYR,HISLLHEYNDI KDVSQMLLGK,ELYPDFDLNLND,HISL LHEYNDIK,SPQRPFPMIDENNDVSEE ALSSDIK,PFPMIDENNDVSEEALSSDI K	
IPI00758006.1	Q9D6E6	2900073G15Rik	Putative uncharacterized protein	FTDEEVDELYR,GNFNIEFTR,DGFID KEDLHDMMLASM GK	
IPI00109809.4	Q9D1F5	3010026O09Rik	UPF0544 protein C5orf45 homolog	SVEEAVNGSEENAGPLQAEAGSQQ APSKPLESR,LNLLQGQVSELSLR,SVE EAVNGSEENAGPLQAEAGSQQAPS K	
IPI00110456.2	Q9CXL3	3110082I17Rik	Isoform 1 of Uncharacterized protein C7orf50 homolog	PSAATLALAYLQGWAQK,ETASTLVQE ASPELSPEER,VQTLPAKPSAATLALAY YLQGWAQK,TSEAGPDKETASTLVQE ASPELSPEER,VPDEHFPTLLDYLEGL R	
IPI00316088.3	A2TJV2	4432412L15Rik	Paralemmin-3		GVVEVVWEGLGGR,VEEVVLEAI GAR
IPI00222228.5		4732456N10Rik	Putative uncharacterized protein	VELEAKVEALMDEINFLR,LALDIEIATY R,DVDAAYMKNKVELEAK,VEALMDEIN FLR,SLNLDSIIAEVK,AEAESWYQTK,S RAEAESWYQTK,DVDAAYMKNK	
IPI00137643.4	Q9D513	4930528F23Rik	Uncharacterized protein C16orf73 homolog		ETVIFASDVR,TIITVNPDTPEANILLN YIR
IPI00221782.3	Q8BGY7	4933403F05Rik	Uncharacterized protein C18orf19 homolog		KQWLHLSAVQCLAK,GVNVIPFLE VIGLPDSIVDILK
IPI00381415.6	A2AG58	A830080D01Rik	Isoform 1 of Uncharacterized protein CXorf23 homolog	IDMSLDDFQNK,MSLGKPPQMSLADSL R,WKPEHSFLPFQEK,LQNEDENI FHM ASPTER,ADSFVTPDITLNER,SQYMPT YTESAATYMEHER	
IPI00808177.1		AA623943	hypothetical protein isoform 1		GFTCCDNECCPER,ILSIICTILPV LFICALVK

IPI00321308.4	Q8BGQ7	Aars	Alanyl-tRNA synthetase, cytoplasmic		MFVDEVVTGQECGVVLDK,NSSH AGAFVIVTEEAIAK,VVSIQVVPVSE PVYTQDCPLAAAK,FINFFR,VVSIQV LLDDPCGPAGSLTSVEFCGGTHL PVSELLDDPCGPAGSLTSVEFCGG R,MALELLTQEFGIPVER,TIPGDT THLR,ITCLCQVPQNAANR,TIPGDT AWLLYDYGFPVDLTGLIAEEK,N AWLLYDYGFPVDLTGLIAEEK,IQS VGCLQEALQLATSFAQLR,IVAVT LGDCK,DIINEEEVQFLK,HNDLDDV GAEAQK,GAMSTQQIK,TITVALAD GK,EIADLGEALATAVIPQWQK,NVG GGRPDNTGR,GGYVLHIGTIYGNL CLQEALQLATSFAQLR,QIWQNLGL K,DIINEEEVQFLK,EIADLGEALAT DEAR,IVAVTGAEAQK AVIPQWQK,RIVAVTGAEAQK
IPI00648915.1	A2A4P4	Aarsd1	Alanyl-tRNA synthetase domain containing 1	GAGLFLLAGPAEAVETLGPR,SVIELDS PSVTAEQVAIEQSVNQK,GAQADHFT ESPLSPGSQVQVR,FDHMQQHSGQHL ITAVADLLFGLK,VVTIEGVDSNMCCGT HVSNLSDLQVIK,RAEAQALLQDYVST QSAEE,EVLSGFHVLEDTLLFPEGGG QPDDR	
IPI00265219.4	Q5SSE9	Abca13	Isoform 1 of ATP-binding cassette sub-family A member 13		TQNFSIDAADLWEEILGCLVPISNITT QMDFLK,EGNFDVGGFFSHMLDQEH LTDLPVVQR,YVNMNGSLQNSGLIS FSEDSPCYTQDMNWK,TLLDAVELV SDEPAIVPEALMCLTR,TSEIIEGFLF LIK,SIYNLANYFALNLTNHLQNSSEV FPHEILK
IPI00111686.5	Q3TZN9	Abcc4	Putative uncharacterized protein		ILIIDEATANVDPR,FAQCTVLTIAH R
IPI00135646.1	P55096	Abcd3	ATP-binding cassette sub-family D member 3		GIEGAQASPLVPGAGEIINTDNIK, YLFNFIAAMPLISLVNNFLK
IPI00322869.3	P61222	Abce1	ATP-binding cassette sub-family E member 1	LKPDEGGEVPLNVSYKPK,PLQIENI IDQEVQTLGGELQR	IAIVNHDK,TQAIVCQQLDLTHLK,L CIEVTPQSK,VAETANEEVKK,D AYTHPQFVTDVMKPLQIENIIDQE VQTLGGELQR,YDDPPDWQEIL TYFR,AIIPQYVDQIPK,NVEDLS GGELQR,PADVYLIDEPSAYLDSE QR,FACAVVICIQK,LKPDEGGEVPL VLNVSYKPK,EGINIFLDGYVPT NLR,GTVGSILDR,VIVFDGVPSK, RDPNNYRPR,VALALCLGK,PGEV LGLVGTNGIGK,FLSQLEITFR,ILE DDLK
IPI00396671.1	Q6P542	Abcf1	ATP-binding cassette sub-family F member 1	KTFEELAVEDK,QQPPEPEWIGDGE GTSPADK,AANAENDFSVSAEVSS R,STLLLLLTGK,ILAGLGFPEMQNRP TQK,NLDFGIDMSR,TFFEELAVEDK, SFNLPYQDAR	SKPAAADSEGEEEEEDTAK,VVF AELACR,STLLLLLTGK,GAVIVVS HDAR

IPI00116825.1	Q99LE6	Abcf2	ATP-binding cassette sub-family F member 2		EMPPSEK,LIQVVAQEIIWVCEK,L AHEDAEECEK,EVPIPEHIDIYHLTR, LLTGELLPTDGMIR,IPPPVIMVQNV LVDEEPQLTK,IPPPVIMVQNVSFK SFK ,YYTGNVDQYVK
IPI00471226.2	Q9QYL7	Abt1	Activator of basal transcription 1	IFGAPLPAESK,DYTEGWVEFR,NLLSA YGEVGR,FTWSHLSEHLAFER,YDLWN LK	
IPI00121833.3	Q921H8	Acaa1a	3-ketoacyl-CoA thiolase A, peroxisomal		VNPLGGAIALGHPLGCTGAR,IAQFL SGIPETVPLSTVNR,NTTPDELLSAV LTAVLQDVR
IPI00848443.1	Q5SWU9-2	Acaca	Isoform 2 of Acetyl-CoA carboxylase 1		VEVGTEVTDYR,LPELLLK,DIIVIG NDITYR,DPTLTDELLNILTELTQLS K,LGGIPVGVVAVETR,FGAYIVDG LR,TIQVENSHLILTGAGALNK,AIG IGAYLVR
IPI00330747.2	Q80XL6	Acad11	Acyl-CoA dehydrogenase family member 11		TLRLADGPDEVHLSAIAKMELQD QAR,RGQEVLTR
IPI00759881.1	Q3ULL9	Acad9	very-long-chain acyl-CoA dehydrogenase VLCAD homolog precursor		VPVENVLGEVGGGFK,FSMGSVAV AGMLKK,ILLIFEGTNEILR,GVFPF PEVSQHELSEINQFVGPLEK VPVENVLGEVGGGFK,GVFPFPEVS QHELSEINQFVGPLEK
IPI00134961.1	P45952	Acadm	Medium-chain specific acyl-CoA dehydrogenase, mitochondrial		ELNMGQR,AFAGDIANQLATDAV QIFGGYGFNTEYPVEK,TRPTVAA TRPTVAAGAVGLAQR,AFAGDIANQ GAVGLAQR,ANWYFLLAR,AFTGF LATDAVQIFGGYGFNTEYPVEK IVEADTPGIHIGK
IPI00808206.1	Q05D19	Acin1	Acin1 protein (Fragment)	SGVSITIDDPVR,TGTLVEEAFWIDK,SL IPDIKPLAGQEAVVDLHADDSSR	
IPI00121136.6	Q9JIX8	Acin1	Isoform 1 of Apoptotic chromatin condensation inducer in the nucleus	SGVSITIDDPVR,TGTLVEEAFWIDK,LL DDLFR	PLHPPPPPPVQPPPHPR,ISNIVHIS NLVRPFTLGQLK,KPSISITTESLK
IPI00126248.3	Q3V117	Acly	Putative uncharacterized protein		SFDELGEIIQSVYEDLVAK,LLVGV DEK,LGLVGVNLSLDGVK,MIVVL GEIGGTEEYK,LYRPGSVAYVSR, LGLVGVNLSLDGVK,GVTIIGPATVG GIK,IGNTGGMLDNILASK,DLVSSLT SGLLTIGDR,GVTIIGPATVGGIKPGC AK,VTPDTDWAHLLQDHPWLLSQ FK,TTGIPIHVFGTETHMTAIVGMAL SLVVKPDQLIK,LNTEDIKR,TIAIIA GHR,GQELIYAGMPITEVFK,SWLKP EGIPEALTR,DLVSSLTSGLLTIGD R,WGDIEFPPPFGR R,EHEVTIFVR,ILIIIGSIANFTNVA ATFK
IPI00116074.1	Q99KI0	Aco2	Aconitate hydratase, mitochondrial	DINQEYVNFATAGAK,NDANPETHAF VTSPEIVTALAIAGTLK,QGLLPLTFADP SDYNK,NAVTVQEFQVVPDTPAR	RLNRPLTLSEK,LTGSLSGWTSPK ,FKLEAPDADELPR,VAVPSTIHCD HLIEAQVGGEK,DINQEYVNFAT AGAK,DLEDLQILIK,LQLEPFDK DINQEYVNFATAGAK,SQFTITPGS WDGKDLEDLQILIK,SQFTITPGSE EQIR,LNRPLTLSEK QIR,NAVTVQEFQVVPDTPAR,IVYGH LDDPANQEIER,LNRPLTLSEK,LT I QGLK
IPI00132958.1	Q9CQR4	Acot13	Acyl-coenzyme A thioesterase 13		VTLVSAAPEK,TLAFASVDLTNK

IPI00556850.1	Q561M1	Acp1	acid phosphatase 1, soluble isoform 1		IELLGSYDPQK,SPIAEAVFR,SPIAE AVFRK
IPI00411079.2	Q5D071	Acs14	acyl-CoA synthetase long-chain family member 4 isoform 1		LSPEPWTPETGLVTDFAK,PTSDK PGSPYR,AKPTSDKPGSPYR
IPI00221528.1	Q8BFZ3	Actb12	Beta-actin-like protein 2	TTGIVMDSGDGVTHTVPIYEGYALPHA ILR,SYELPDGQVITIGNER,VAPDEHPILLTEAPLNPK	HQGVMMVGMGQK,DLTDYLMK,TT GIVMDSGDGVTHTVPIYEGYALP HAILR,YSVWIGGSILASLSTFQQM WISK,RGILTLLK,SYELPDGQVITIGNER,VAPDEHPILLTEAPLNPK,DC YVGDEAQS
IPI00114593.1	P68033	Actc1	Actin, alpha cardiac muscle 1	YPIEHGIITNWDMEK,SYELPDGQVITIGNER,IWHHTFYNELR,VAPEEHPTLLTEAPLNPK	DLTDYLMK,QEYDEAGPSIVHR,AVFPSIVGRPR,SYELPDGQVITIGNER,EITALAPSTMK,IWHHTFYNELR,AVFPSIVGR,DSYVVGDEAQS,K,AGFAGDDAPR
IPI00874482.1	P63260	Actg1	Actin, cytoplasmic 2	DLYANTVLSGGTTMYPGIADR,KDLYANTVLSGGTTMYPGIADR,TTGIVMDSGDGVTHTVPIYEGYALPHA ILR,SYELPDGQVITIGNER,IWHHTFYNELR,VAPEEHPVLLTEAPLNPK	
IPI00323660.1	Q9Z2N8	Act16a	Actin-like protein 6A	VDFPTAIGVVLER,ELFQEMNIELIPPYMIASK,STGLILDGATHHTAIPVHDGYVLQQGIVK	VDFPTAIGVVLER,LIANNTTVER
IPI00380436.1	Q7TPR4	Actn1	Alpha-actinin-1	FAIQDISVEETSAK,TINEVENQILTR	LASDLLEWIR,LAILGIHNEVSK,LL ETIDQLYLEYAK,GYEEWLLNEIR,LVSIGAEIIVDGNV, RDQALTEE HAR,VGWEQLLTTIAR,LMLLLEVISGER,EGLLLWCQR,ASIHEAWTDGK,KHEAFESDLAAHQDR,ALDFIASK,FAIQDISVEETSAK,TINEVENQILTR
IPI00118899.1	P57780	Actn4	Alpha-actinin-4	LVSIGAEIIVDGNNAK,KDDPVTNLNNAFEVAEK,DYETATLSDIK,AGTQIENIDEDFR,MLDAEDIVNTARPDEK,QLETIDQLHLEYAK,FAIQDISVEETSAK,TINEVENQILTR,LSGSNPYTTVTPQIINSK,MAPYQGPDAAPGALDYK	LASDLLEWIR,DGLAFNALIHR,LSGSNPYTTVTPQIINSK,NVNVQNFHISWK,ACLISLGYDVENDR,GYEWLLNEIR,LVSIGAEIIVDGNNAK,KDDPVTNLNNAFEVAEK,LMLLLEVISGER,EAILAIHK,VGWEQLLTTIAR,EGLLLWCQR,RDHALLEEQSK,SIVDYKPSLDLLEQQHQLIQEALIFDNK,ASIHEAWTDGK,KHEAFESDLAAHQDR,ALDFIASK,TINEVENQILTR,FAIQDISVEETSAK,VEQIAAIAQELNELDYDSHNVNTR
IPI00775849.2		Actn4	Alpha-actinin	MLDAEDIVGTLRPDEK,LVSIGAEIIVDGNNAK,KDDPVTNLNNAFEVAEK,DYETATLSDIK,AGTQIENIDEDFR,FAIQDISVEETSAK	

IPI00113895.1	P61164	Actr1a	Alpha-centractin		TLFSNIVLGGSTLFK,LLSEVKK
IPI00177038.1	P61161	Actr2	Actin-related protein 2		RLDIAGR,DLMVGDEASELR,GYAFN HSADFETVR
IPI00115627.4	Q99JY9	Actr3	Actin-related protein 3		TLTGTVIDSGDGVTHVIPVAEGYVIG SCIK,LPACVVDCGTGYTK
IPI00261467.6	P03958	Ada	Adenosine deaminase		EGVVYVEVR,NIIGMDKPLSLPGFLA K
IPI00395222.1	Q99MU3	Adar	Isoform 1 of Double-stranded RNA-specific adenosine deaminase	ALQEEAASSADDQSGGANTDSLDES MAPNK,ELRIPK	
IPI00555004.3	P28474	Adh5	Alcohol dehydrogenase class-3		SALEAAHK,VDEFVTGNLSFDQIN QAFDLMHSGDSIR,VEPGSTCAV FGLGGVGLAVIMGCK,AAVAWEA GKPLSIEEIEVAPPK,FCLNPK,SIQ EVLVEMTDGGVDYSFECIGNVK IIGIDINK,AGDTVIPLYIPQCGECK,V CLLGCGISTGYGAAVNTAK
IPI00126940.1	P55264	Adk	Isoform Long of Adenosine kinase		AGHYAASVIIR,VEAPQALSENVLF GMGNPLLDISAVVDKDFLDK,YSL KPNDQILAEDK,VFTLNLSAPFISQ FFK
IPI00265471.2	Q3TMB8	Adsl	Putative uncharacterized protein		ADAYFSPHSQLEHLLDPSSFTGR ,VLSQQAQAAVVK,ICLAEAFLTADTI LNTLQNISEGLVVYPK ADLPTLGFTHFQPAQLTTVGK,VLS QQAQAAVVK
IPI00135969.2	P46664	Adss	Adenylosuccinate synthetase isozyme 2		RCGWLDLVSLK,VGIGAFPTEQDNE IGELLQTR,FIEDELQIPVK,VVDLLAQ DADIVCR,ELPVNAQNYVR,VEVQYK ,LDGETIPHFANQEVLNK
IPI00467786.2	Q8C095	Aen	unnamed protein product	DTTYVPNLLSQPSSLIR,YIRPEMIVDY R,CVAIDCEMVGTPQGR	
IPI00229454.1	P63002-2	Aes	Isoform 2 of Amino-terminal enhancer of split	QVTAPELNSIIR,IKDEFQLLQAQYHSLK	
IPI00170357.5	Q8JZQ2	Afg3l2	AFG3-like protein 2		HFEQAIER,VHLRPLK,VALLLLEK, HLSDAINEK,KEPQPSGPQPSGG AGGGGGK
IPI00223818.2	A2AL50	Agps	Alkylglycerone phosphate synthase		TSINPSEAPPSIVNEDFLQELK,IL WVDENNLTAHVEAGITGQDLER, GISDPLTVFEHTEAAAR,IRPTPEY QK,YPLSGLVLPRTL,RASAAGAS PAATPAAPESGTIPK
IPI00122594.4	Q8CJF7	Ahctf1	Protein ELYS		NGVSLFNPK,SPLCLLSSSLPSSQ FK

IPI00230440.6	P50247	Ahcy	Adenosylhomocysteinase		VADIGLAAWGR,YPQLLSGIR,GE TDEEYLWCIEQTLHFK,GCAQALR ,KLDEAVAEHLGK,DGPLNMILD DGGDLTNIHTK,GISEETTTGVH NLYK,VIITEIDPINALQAAMEGYEV TTMDEACK,VAVVAGYGDVVK,V PAINVNDVSVTK,IILAEGR,ALDIAE NEMPLMR,VNIKPQVDR	LDEAVAEHLGK,VAVVAGYGDVVK ,YPQLLSGIR,YPVGVHFLPK,VPAIN VNDVSVTK,KLDEAVAEHLGK,DGPL NMILDDGGDLTNIHTK,VNIKPQVD R,GISEETTTGVHNLTK,VIITEIDPIN ALQAAMEGYEVTTMDEACK,AGIPV FAWK,WSSCNIFSTQDHAAAAIAK
IPI00553798.2		Ahnak	AHNAK nucleoprotein isoform 1	GGVDVILPNVEGK,LDIDTPDIDIHGPE GK,GPQITGPSLEGDLGLK,VDIDTPQV DVHGPDLK,KLEGDLK,ISMPEIDLNLK GPKLK,DIDITSPEFMK,AEQPEVDVNL PK,VDIETPNLEGLTGP	VDIDVPDVPDVHGPDWHLK,AEQ EVDVNLPK,ADIDVSGPK,VDIDVP DVNIEGPK	GAFDGSVPK,VEANVQAGAGEGK,F SMPGFK,VDIDVPDVNIEGPEGK,AE GPEVDVNLPK,ELLLPNWQGGSGH GLTIAQR,VDIDVPDVNIEGPK
IPI00153740.1	Q8BK64	Ahsa1	Activator of 90 kDa heat shock protein ATPase homolog 1	VFTTQELVQAFTHAPAALADR,ETFL TSPEELR,GHVEIPNLSDENSVDEVEI SVSLAK,FHMVDGNVTGEFTDLVPEK	VENEEGKCEVTEVVK,VFTTQELV QAFTHAPAALADR,EAVGIYISTL K,GHVEIPNLSDENSVDEVEISVS LAK,SWPEGHFATITLTFIDK	
IPI00828748.1	A2ALW0	AI314180	Novel protein containing 10 HEAT domains		LIPALLESLSVLEPQVNLNLSLR,V NDVVPWVLDVILNK	
IPI00400395.1	Q8BGQ1	AI413782	Isoform 1 of Uncharacterized protein C14orf133 homolog	DYSNDWSLSDTVQR,AFTFDEDEDEL SQLK,AWNDVDALFTTK,TRPGSFQSL SDALSPTAK		
IPI00129577.1	Q9Z0X1	Aifm1	Apoptosis-inducing factor 1, mitochondrial		KVVHLDVR,KVETDHIVTAVGLEP NVELAK,AIASATEGGSVPQIR,GV IFYLR,SITVIGGGFLGSELACALG R,KSQASGIEVIQLFPEK,VNAELQ AR	
IPI00132194.3	Q3UZG4	Aimp1	small inducible cytokine subfamily E, member 1	QELILAEIHNGVEQVR,ITFDAPGEPD KELNPK,VEILAPPNGSVPGDR,AQTM ANSGIK,EIEELKQELILAEIHNGVEQVR ,GAEADQIIEYLK,TVVSGLVNHVPLEQ MQNR		IWEIQPDLHTNAECVATYK,TVVS GLVNHVPLEQMQNR,GAEADQIIEY LK,EIEELK
IPI00153103.3	Q8R010	Aimp2	Aminoacyl tRNA synthetase complex- interacting multifunctional protein 2	TTSPATDAGHVQETSEPSLQALSR,F LFSLFGQK	MIHTPADLDVNTILQADEPTTLA TNTLDLNSVLGK,SCENLAPFSTA LQLLK,VLSTVHTHSSVK	SPWLVGNELTVADVVLWSVLQQTG GSSGAAPTNVQR,MIHTPADLDVT NILQADEPTTLATNTLDLNSVLGK,S CENLAPFSTALQLLK,VLSTVHTHSS VK
IPI00125794.6	A2ALI5	Ajap1	Adherens junction-associated protein 1			GVTESLDPWKR,MWIIQQLGLSSM SIR,TTVATTTTTTAASTATAMLTQT K
IPI00750256.2	Q9R0Y5-2	Ak1	Isoform 2 of Adenylate kinase isoenzyme 1	RLETYYNATEPVISFYDK,LETYYNATE PVISFYDK		VNAEGTVDTVFSEVCTYLDLTK,GE LVPLDTVLDMLR
IPI00648318.1	Q9WTP6	Ak2	Isoform 1 of Adenylate kinase 2, mitochondrial		GIHCAIDASQTPDIVFASILAAFSK, AVLLGPPGAGK,LVSDVMVELIE K	

IPI00123709.1	Q9WTQ5	Akap12	Isoform 1 of A-kinase anchor protein 12	<p>TLVHTVSVVAIDGTR,QAQSSSTEIPLQA ESGQGTEEEAAK,ASEMITTLAVESAS TLVHTVSVVAIDGTR,ASEMITTLA VK,VDEEEGEKTEPAPAEQEPAEGT VESASVK,AEVGQEGEAGQFDGE DQAR,SATLSSTESTASGMQDEVR,DE K,EDSQVPATQTLQR,EQEAKEKVD GEGAEASVGAGDHQEPGVETVGESAE EEEGEKTEPAPAEQEPAEGTD SK,EQEAKEKVDDEEEGEKTEPAPAEQ QAR,DVLEPTQALAAGAVPILAK,I EPAEGTDQAR,HPEGIVSEVEMLSSQE VQSVIQTAVDQFAR,VKEDSQVP R,AEDSGAEQLASEIEPSR,EMAASST ATQTLQR,ALEKVEEVEEDSEVLA VVEDITK,ALGSLEGSPSLPDQDK,DVL TEK,VELPLEDQVGDLEALSEK,A EPTQALAAGAVPILAK,IVQSVIQTAVD QENVLPQLK,AEPEILELESK,KD QFAR,VELPLEDQVGDLEALSEK,GGG EGEGAEASVGAGDHQEPGVETV RLVTPRK,AQENVELPQLK,DITAEA GGDEEPGEYQHIQTESPEADEQK,LA GESASK,KASSSDDEGGPR,TEA TPALAQTLPGGK,QTQAVLQAVADK ETQEVQEAEPVEELMK,RGGGGGDE HQEVVAEVHSTVEK,EHAADGP ,ADCIEVQVQSSDTPVTQTTEAVKK, EPGEYQHIQTESPEADEQK,QSQVTE QHQSLAK,GQGGAEVEGDVVVE HPEGIVSEVEMLSSQER,DVLEPTQ EEAAAQTEGPSTPSSFPAQEEHR,K GSGESLPPEK,AEADASGNLTK,A ALAAGAVPILAK,IVQSVIQTAVDQFA DEGEGAEASVGAGDHQEPGVETVGE EDSGAEQLASEIEPSREESWVSI R,EHAADGPQHQSLAK,AEADASGN SASK,EKEPTKPLESPTSPVSNETTSS K,LPLQCK,AQTEEDDLQEPK,VEE LTK,VELPLEDQVGDLEALSEK FK,SPEQPAESDTPSELELSGHGPAAE VEEDSEVLATEK,DITAEATPALA ASGAAGDPADADPATK,GQGGAEVEG QTLPGGK,TEQASEEHEQETAAP DVVVEGSGESLPPEK,AEDSGAEQLA EHEGTHPK,ATTCQVIK,DEKEHA SEIEPSREESWVSIK,VEEVEEDSEVLA ADGPQHQSLAK,SDTVQLLTVK,S TEK,AEPEILELESKSNKIVQSVIQTAVD DEDNKPDPAGPDAAGK,GAVYVSE QFAR,DITAEATPALAQTLPGGK,FFTH ELSK,EVCVSGGDHTQLTDLSP GWAGWR,GAVYVSEELSK,EPTKPLE EK,GPSEAPQEAEEGATSDGE SPTSPVSNETTSSF,DAHDDIVTSEV K,DAHDDIVTSEVDFTEAVTAAE DFTSEAVTAAETTEALR,QAQSSSTEIPL TTEALR QAESGQGTEEEAAKDGEENR</p>
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IPI00649060.1		Akap2	Protein	<p>GPSQPPTAAQPSGPVNMEETRPEGG YFSK,DEDHGILDQFSR,AVLTVVKDED HGILDQFSR,STASLLATQESDVMVGP FK,TIEEQLDEEHLESHR,TLSMIEEIR, LWAEDGEFTSAR,DGEFTLTLTK,SVN VSLTQEELDSGLDELSVR</p>
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IPI00321739.1	Q9DBR0	Akap8	A-kinase anchor protein 8	<p>TVEFLQEYIINR,EETPEEVAEVLAEVI TAAVK</p>
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IPI00466128.3	Q9JII6	Akr1a4	Alcohol dehydrogenase [NADP+]	<p>GLEVTAYSPLGSSDR,ILQNIQVDFDTF SPEEMK,HPDEPVLLLEPVVLAELK</p> <p>HHPEDVEPALR,HALSAGYR</p>
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IPI00223757.4	P45376	Akr1b3	Aldose reductase	<p>TTAQLVIR,VDFEVSSEDMATLLSYNR WPTGFK,MPTLGLGTWK,YKPAV TTAQVLIR,TLSDLQLDYLDLYLIHWP ,TIGVSNFNPLQIER,PGPDYFPLDASG NQIECHPYLTQEK,VAIDLGYR,LIE TGFK,MPTLGLGTWK,YKPAVNQIE NVIPSDTDFVDTWTAMEQLVDEGLVK, YCHSK,HIDCAQVYQNEK,SPPGQ YQNEK,ILNKPGLK,SPPGQVTEAVK GIVVTAYSPLGSPDRPWAKPEDPSLL VTEAVK,EVGVALQEK,RQDLFIVS ,EVGVALQEK,TIGVSNFNPLQIER,P EDPR K,TIGVSNFNPLQIER,GIVVTAYSP GPDYFPLDASGNVIPSDDTDFVDTW LGSPDRPWAKPEDPSLLEDPR TAMEQLVDEGLVK</p>
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IPI00830240.1	Q91WR5	Akr1c21	Aldo-keto reductase family 1 member C21	NFNRYR		
IPI00129350.1	Q9Z110	Aldh18a1	Isoform Long of Delta-1-pyrroline-5-carboxylate synthetase		GPVGLEGLLTTK,GQDHVVSDFS EHGSLK,TDLLIVLSDVEGLFDSPP GSDDAK,ILHLLTQEALSIHGVK,A EIIHNLADLLTDQR,AEIINHLADLL TDQREEILLANK,YGSSHTDVIVTE NEK,EAIQLVNTR,FGLGAEVIGIST SR,IIDLIIIPR,TPLFDQIIDMLR,FAS YLTFSPSEVK,LIDIFYPGDQQSVT FGTK,VSGHVITDIVEGK	
IPI00111218.1	P47738	Aldh2	Aldehyde dehydrogenase, mitochondrial		YGLAAAVFTK,VAFTGSTEVGHLI QVAAGSSNLK,TIEEVVGR,VAEQ TPLTALYVANLIK,LLCGGAAAD R,LGPALATGNVVMK,GYFIQPT VFGDVK,TFVQENVYDEFVER	VAFTGSTEVGHLIQVAAGSSNLK,E EIFGPVMQILK,RVTLELGGK,LLCG GGAAADR,EAGFPVGVNIVPGFPG TAGAAIASHEGVDK,GYFIQPTVFGD VK
IPI00856379.1	A6ZI44	Aldoa	Fructose-bisphosphate aldolase		KDGADFAK,RLQSIGTENTEENR, AAQEEYIK,GILAADESTGSIK,YT PSGQSGAAASESLFISNHAY,ALQ KDGADFAK,DGADFAK,AAQEEYIK,GIL AADESTGSIK,ALQASALK,YTPSGQS GAAASESLFISNHAY,FSNEEIAMATVT ALR,VLAAVYK,GGVVGK,AAQEEYIKR ,IGEHTPSALAIMENANVLAR,GVVPLA GTNGETTQGLDGLSER,TVPPAVTGV TFLSGGQSEEEASINLNAINK,ELSDIA HR,QLLLTADDR,RLQSIGTENTEENRR NSLACQGK,ALSDHHVYLEGTLK PNMVTPGHACTQK,RLQSIGTEN TEENRR,ADDGRPPQVIK,LQSIG TENTEENR	AAQEEYIK,GILAADESTGSIK,ALQ ASALK,FSNEEIAMATVTALR,VLA AVYK,AAQEEYIKR,LQSIGTENTE ENRR,IGEHTPSALAIMENANVLA R,YASICQNGIVPIPEILPDGD HDLK,GVVPLAGTNGETTQGLD GLSER,TVPPAVTGVTFLSGGQS SGGQSEEEASINLNAINK,ELSDIAH R,QLLLTADDR,ALANSLACQGK,AD DGRPPQVIK,PPQVIK,LQSIGTEN TEENR
IPI00263333.1	Q8K371	Amotl2	Isoform 1 of Angiomotin-like protein 2	GPPPQYPHAVMAQETAAVTDPR,DGS TQTDGPADNTSACLASEPDGLLG CNS SQR		
IPI00229274.1	Q8CFA2	Amt	Aminomethyltransferase, mitochondrial		KQQMTVVSK,AHSPILNTEGTVIGTV TSGCPSPSLK	
IPI00153118.1	Q8R034	Anapc13	Anaphase-promoting complex subunit 13	WTDLALQGLHENVPPAGN,ILDLIDDA WR		
IPI00465535.1	Q99NH0	Ankrd17	Isoform 1 of Ankyrin repeat domain-containing protein 17		LTSSVSCALDEAAAALTR,ESALT LA CYK	
IPI00172197.2	Q8K298	Anln	Actin-binding protein anillin	TDASNYYYLIMLK,DLLYSIDAYR,ASSP VTAATFITENR,SSLHSSVMASPGGLG AVR,KDPSSNAAHGPLLSASVSSVK, QAKPPAPAAISESVAAPAALLSADR,IT LFLEEEK	VPFLSPLEGHICLK,GLNSGSEASAT SSVK,DLLYSIDAYR,PTLSQGAQPK, LANLAATICSWEDDVSHSSAK	

IPI00756965.1	A2AHL1	Ano3	Isoform 1 of Anoctamin-3		MEVINPITGKPEPHQPSSDKVTR,R SILTYTWDLIEWEEEEETLRPQFEA K	
IPI00314736.3	O35381	Anp32a	Acidic leucine-rich nuclear phosphoprotein 32 family member A	ELVLDNCK,HLNLSGNK,KLELSE NR,IYLELR,ISGDLEVLAEK,IEGLT DEFEELEFLSTINVGLTSISNLPK	HLNLSGNK,KLELSENR,ISGDLEVL AEK	
IPI00113536.3	Q9EST5-2	Anp32b	Isoform 2 of Acidic leucine-rich nuclear phosphoprotein 32 family member B	SLDLFGCEVTNR,DISTLEPLKR,E LVLDNCK,RLDCLK,LAEELPSLTH LNLSGNLTK,KLELSENR,IHLELR, IFGGLDR	SLDLFGCEVTNR,RLDCLK,LAEELP SLTHLNLSGNLTK,KLELSENR,IHLE LR,IEGLTDEFVNLEFLSLISVGLFSV SDLPK,LLPQLSYLDGYDR,IFGGLD R	
IPI00130016.1	P97822	Anp32e	Isoform 1 of Acidic leucine-rich nuclear phosphoprotein 32 family member E		DLSTVEALQNLK,SLDLFNCEITNLE DYR	
IPI00652811.1	Q3US43	Anxa1	Putative uncharacterized protein		GGPGSAVSPYPSFNVSSDVAALHK, FLENQEYEVQAVK	
IPI00468203.3	P07356	Anxa2	Annexin A2	SALSGHLETVILGLLK,GVDEVTIVNILT NR,RAEDGSVIDYELIDQDAR	GDLENAFLNLVQCIQNKPLYFADR, SALSGHLETVILGLLK,GLGTDEDSL EIICSR	
IPI00554894.2	P14824	Anxa6	Annexin A6		LMLAVVK,TTGKPIEASIR,TLIEILA TR,SEISGLAR,GIGTDEATIIDIVT HR,ILISLATGNR,MLVVLLQGTR,D LIEDLKYELTGK,IMVSRSELDMLD IREIFR,DAFVAIVQSVK,SELDMLD IREIFR,SLEDALSSDTSGHFR	
IPI00648683.3	Q8CC13	Ap1b1	Putative uncharacterized protein		KPTETQELVQQVLSLATQDSDNP DLR,NINLIVQK,LGAPISGLSDF DLTSGVGTLSGSYVAPK,LAPPLV TLLSAEPELQYVALR,DLDDYATLL K,EYATEVDVDFVR,YNDPIYVK,L ASQANIAQVLAELK,LSHANSVV LSAVK,VNYVVQEAIIVIK,AAMIWI VGEYAER,RPEILK,NSFGLAPAAP LQVHVPLSPNQTVIEISLPLNTVGS VLK	LGAPISGLSDFDLTSGVGTLSGS YVAPK,LAPPLVTLLSAEPELQYVAL R,KVIASMTVGK,LASQANIAQVLAEL K,KLVYLYLMNYAK,RPEILK,NSFGL APAAPLQVHVPLSPNQTVIEISLPLN TVGSVLK
IPI00224151.5	Q3UKX8	Ap1g1	Putative uncharacterized protein		TFQLQLLSPSSSVVPAFNTGTITQ VIK,VVSIYSSIDVELQQR,VLTTA GSYVR	AMELSFALVNGNINR,TFQLQLLSPS SSVPAFNTGTITQVIK,NVGNAILYE TVLTIMDIK
IPI00108780.7	P17426	Ap2a1	Isoform A of AP-2 complex subunit alpha-1		LLQCYPPPEDAAVK,ACNQLGQFLQ HR,TSVQFQNFPLTVVHPGDLQTQL AVQTK	

IPI00753468.2	Q8C2J5	Ap2a2	adaptor protein complex AP-2, alpha 2 subunit	IVINR	ALLLSTYIK, GLAVFISDIR, VGGYIL GEFGNLIAGDPR, VIQIVINR, LPITL NK, ACNQLGQFLQHR, IIGFGSALL EEVDPNPANFVGAGIIHTK
IPI00378063.1	Q9DBG3-2	Ap2b1	Isoform 2 of AP-2 complex subunit beta		VNYVVQEAIIVIR, NINLIVQK, LTN GIWILAELR, LAPPLVTLLSGEPEV QYVALR, KPSETQELVQQVLSLAT QDSDNPDLR, LASQANIAQVLAEL K, YNDPIYVK, EYATEVDVDFVR, L SHANSVVLSAVK, AAMIWIVGEY AER, RPEILK, APEVSQYIYQVYDSI LK ECHLNADTVSSK, LAPPLVTLLSGEP EVQYVALR, NSFGVIPSTPLAIHTPL MPNQSIDVSLPLNTLGPVMK, LASQ ANIAQVLAELK, KLVYLYLMNYAK, R PEILK, APEVSQYIYQVYDSILK
IPI00116356.5	P84091	Ap2m1	AP-2 complex subunit mu		VNVIHAR, WARPPISMNFVFPFAPS GLK
IPI00118022.1	P62743	Ap2s1	AP-2 complex subunit sigma		LIEEVHAVVTVR, FILIQNR
IPI00224152.5	P28352	Apex1	DNA-(apurinic or apyrimidinic site) lyase	EAAGEGPVLYEDPPDQK, QGFGELLQ AVPLADSF, LPAELQELPGLTHQYWS APSDK	KPLVLCGDLNVAHEEIDL, LPAEL QELPGLTHQYWSAPSDK, VSYGI GEEHDQEGR NAGFTPQER, QGFGELLQAVPLADS FR, LPAELQELPGLTHQYWSAPSDK , KGLDWVK
IPI00399961.2	Q3UYQ4	Api5	Putative uncharacterized protein		NYGILADATEQVGQHK, GTLGGLF SQILQGEDIVR, VADILTQLLQTTDD SAEFNLVNNALLSIFK GTLGGLFSQILQGEDIVR, VADILTQL LQTDDSAEFNLVNNALLSIFK, ITNNI NVLIK, DLFHIPPSYK, ELPQFATGEN LPR
IPI00330933.6	Q9WVQ5	Apip	APAF1-interacting protein	YDDMLVVPIIENTPEEK, AAVMATLLFP GQEFK	
IPI00625950.2	Q6PK77	Aprt	adenine phosphoribosyltransferase		SFPDFPIPGVLF, LPGPTVSASY SLEYGK, LGPIFFSLLQYD, GFLF GPSLAQELGVGCVLIR, IDYIAGLD SR, LLASHLK, AEVVECVSLVELTS LK, VVIVDDLLATGGTMFAACDLL HQLR SFPDFPIPGVLF, LPGPTVSASYSL EYGK, GFLFGPSLAQELGVGCVLIR, LLASHLK, AELEIQK
IPI00377288.3	Q4LDD4	Arap1	Isoform 1 of Arf-GAP with Rho-GAP domain, ANK repeat and PH domain-containing protein 1		KCGQTSK, EELLPSVSPR, SLIPDLP LHPMDELPGGPTPITPVK
IPI00849044.2	Q91W48	Arcn1	Putative uncharacterized protein	NSNILEDLETLR, IEGLLAAPFK, LYMVLI TTK, LFTAESLIGLK, TSEATKVHAPPIN MESVHMK	
IPI00465765.2	Q9QY36	Ard1a	N-terminal acetyltransferase complex ARD1 subunit homolog A	MEEDPDDVPHGHITSLAVK, DLTQMAD ELR, AALHLYSNTLNFQISEVEPK	
IPI00758413.2	Q3V4D5	Ard1a	N-acetyltransferase ARD1 homolog (S. cerevisiae), isoform CRA_b	MEEDPDDVPHGHITSLAVK, AALHLYS NTLNFQISEVEPK	YVSLHVR, GQAHGSGGLGEQSGEQ R
IPI00221613.5	P84078	Arf1	ADP-ribosylation factor 1		ILMVGLDAAGK, DAVLLVFANK, NI SFTVWDVGGQDK, MLADEL, L GLHSLR, HYFQNTQGLIFVDSND R, LGEIVTTIPTIGFNVETVEYK IRPLWR, LGLHSLR, LGEIVTTIPTIGF NVETVEYK

IPI00876029.1		Arf4	20 kDa protein		ILMVGLDAAGK,MLLEDELQDAVL LLFANK,HYFQNTQGLIFVVSND R,LGEIVTTIPTIGFNVETVEYK
IPI00221615.5	P84084	Arf5	ADP-ribosylation factor 5		LGLQHLR,IRPLWR,LGEIVTTIPTIGF NVETVEYK
IPI00387227.1	Q9EPJ9	Arfgap1	Isoform 1 of ADP-ribosylation factor GTPase-activating protein 1	AFEDWLNDLGSYQGAQENR,AAPST ADEGWDNQNW,IFDDVSSGVSQLASK ,EFLETQDDYEPSWSLQDK,EWSLESS PAQNWTPPQPK	
IPI00109656.2	Q99K28-2	Arfgap2	Isoform 2 of ADP-ribosylation factor GTPase-activating protein 2	STELDSNWSWLQLR,SSISHSVLSEM QMIEQETPLSAK,SQLDLFDDVGTAFAS GPPK	
IPI00322312.3	Q99PT1	Arhgdia	Rho GDP-dissociation inhibitor 1	SIQEIQELDKDDESLR,VAVSADPNVP NVIVTR,AEYEFLLPMEEAPK,SIQEIQ ELDKDDESLRK,FTDDDKTDHLSWEW NLTIK	SIQEIQELDKDDESLR,VAVSADP NVPNVIVTR,SIQEIQELDKDDESL RK,LTLVCSTAPGPLELDTGDLE VAVSADPNVPNVIVTR,LTLVCSTAP GPLELDTGDLESFK,YIQHTYR ESFKK,YIQHTYR,FTDDDKTDHLS WEWNLTIK
IPI00652900.1	Q61210-5	Arhgef1	Isoform 5 of Rho guanine nucleotide exchange factor 1	SGLELEPEEPPGWR,FIQEVVQSQA AVSR,TVGTPGQDNPVSLHPLSTDS VDSR,LLSHLEETQHTISTDEEK	
IPI00655136.3	Q9ES28	Arhgef7	Isoform B of Rho guanine nucleotide exchange factor 7	SYYNVVLQNILETEHEYSK,FNFQQTN EDELFSFK	
IPI00648459.1	A2BH40	Arid1a	AT rich interactive domain 1A	KAPGSDPFMSSGQGPNGMGDPYS R,SNSVGIQDAFPDGSDFQK,ELAT NLNVGTSSSAASSLK,AAAGQESEGP AVGPPQPLGK,FPPPQELSQDSFGSQ ASSAPSMTSSK,NPQMPQYTSPQPGS ALSPR,GEDPPPDIFAAADSK,NSMTP NPGYQPSMNTSDMMGR	
IPI00848707.3		Arid1b	AT rich interactive domain 1B	SSTVSVHDPFSDVSDSAYPK,ELATNL NVGTSSSAASSLK	
IPI00278498.10	P61211	Ar1	ADP-ribosylation factor-like protein 1		ILILGLDGAGK,AILVVFANK
IPI00124787.3	Q9WUL7	Ar3	ADP-ribosylation factor-like protein 3	FEETGQELTELEEEK,QLASEDISHIT PTQGFNIK,SYFENTDILYVIDSADR,Q DLLTAAPASEIAEGLNLHTIR	
IPI00137460.3		Armc10	Isoform 2 of Armadillo repeat-containing protein 10		LLTNMTVTNDYQHLLSGSVAGLFLH LLLGNGSTK,IYVPQVCEDVFADPLN SAVQLAGLR
IPI00661414.2	Q9CVB6	Arpc2	Actin-related protein 2/3 complex subunit 2		ASHTAPQVLFVSHR,AVIHYR
IPI00124829.5	Q9JM76	Arpc3	Actin-related protein 2/3 complex subunit 3	LIGNMALLPLR,DTDIVDEAIYYFK	
IPI00138691.6	P59999	Arpc4	Actin-related protein 2/3 complex subunit 4	AENFFILR,ELLLQPVTISR	

IPI00399943.3	Q9CPW4	Arpc5	Actin-related protein 2/3 complex subunit 5	QGNMTAALQAALKNPPINTK,QGNMTAALQAALK	
IPI00111117.5	Q9D898	Arpc5l	Actin-related protein 2/3 complex subunit 5-like protein	ALAVGGLGSIIR,GF EKPTENSSAVLLQWHEK,SSEIEQAVQSLDR	NGIDLLMK,SSEIEQAVQSLDRNGIDLLMK,ALAVGGLGSIIR
IPI00647964.2	Q91Y14-2	Arrb2	Isoform 2 of Beta-arrestin-2	EDLDVLGLSFR,KVQFAPETPGPQPSAETTR	
IPI00127472.2	P98203-3	Arvcf	Isoform 3 of Armadillo repeat protein deleted in velo-cardio-facial syndrome homolog	SLPEHFQAEPYGLEDDTR,GTPSSGGFDDSTLPLVDK	
IPI00134544.3	Q9QWY8	Asap1	Isoform 1 of Arf-GAP with SH3 domain, ANK repeat and PH domain-containing protein 1	NVGNNSFNDIMEANLPSPSPKPTPSSDMTVRK,QPAKLNLLTCQVKPNAEDK	
IPI00553465.4	Q99MY8	Ash1l	Probable histone-lysine N-methyltransferase ASH1L		NLDHVNK,LGIGIVPGLVVK,EMPQLEGGPK,HNQLYKK,KPSLTSDSGIHAITPSVWNFTSLFSNKPFLK,KYPQLR,EICDGIISYR,SPFSAVGESNLPSSPTVSVNPVTR,LSSSMCVTSDLLSDIYKPKR
IPI00131513.5	Q91X20	Ash2l	Set1/Ash2 histone methyltransferase complex subunit ASH2	FGLLDQDLNIGPAYDNQK,YILAEPDPHAPDPEK,DIFEGVYFPAISLYK	
IPI00314788.5	Q91Y10	Asl	Argininosuccinate lyase		INVLPGLSGAIGNPLGVDR,VLIGTMVDR,CAGLLMTLK
IPI00116966.8	Q61024	Asns	Asparagine synthetase [glutamine-hydrolyzing]		FPFNTPK,TTAAHGLELR,IGCLLSGLDSSSLVAASLLK,LAVVDPLFGMQPIR
IPI00121364.2	Q8VBT9	Aspscr1	Isoform 1 of Tether containing UBX domain for GLUT4	AALQNTTLQSLGLTGGSATIR,QLWE LLSHFAQTR	
IPI00134746.5	P16460	Ass1	Argininosuccinate synthase	GSVVLAYSGGLDTSCILVWLK,TTSLELFMYLNEVAGK,SPWSMDENLMHISYEAGILENPK,GIYETPAGTILYHAHLDIEAFTMDR,APNSPDVLEIEFK	
IPI00126913.5	Q92511	Atad3a	Isoform 1 of ATPase family AAA domain-containing protein 3		LKEYEAAVEQLK,LVSRPQDALEGVILSPSLEAR,ISVLEALR,GLLLFVDEADAFLR
IPI00117379.3	O08997	Atox1	Copper transport protein ATOX1	LGGVEFNIDLPNK,LGGVEFNIDLPNKKVSYLGPK	EIAQLAVAWQAMAYSSSEDGVLTEAMMDAR,LVSRPQDALEGVILSPSLEAR
					VCIDSEHSSDTLLATLNK,LGGVEFNIDLPNK,LGGVEFNIDLPNKK,AVSYLGPK

IPI00311682.5	Q8VDN2	Atp1a1	Sodium/potassium-transporting ATPase subunit alpha-1	DKYEPAAVSEHGDKK,VIMVTGD HPITAK,IISANGCK,GIVVYTGDR, MSINAEDVVVGDLVEVK,IVEIPFN STNK,AVFQANQENLPILK,LIVVEG CQR, LNIPVNQVNPR, YHTEIVFAR , YEPAAVSEHGDKK, ACVVHGSDL K, KADIGVAMGIVGSDVSK, GVGII SEGNETVEDIAAR, VDNSSLTGES EPQTR, SPDFTNENPLETR, AVAG DASESALLK, EQPLDEELKDAFQN AYLELGGLGER	RPGGWVEK, HLLVMK, YQLSIHK, AV FQANQENLPILK, LNIPVNQVNPR
IPI00124221.1	P97370	Atp1b3	Sodium/potassium-transporting ATPase subunit beta-3		IIDLIPDGYPQISCLPK, NLTSCP DGA PFIQHGP DYR
IPI00311654.4	Q8R429	Atp2a1	Sarcoplasmic/endoplasmic reticulum calcium ATPase 1	EVTGSIQLCR, VDQSILTGESVSVI K, HTDPVPDPR, KNAIVRSLPSVET LGCTSVICSDK	
IPI00338964.3	O55143	Atp2a2	Isoform SERCA2B of Sarcoplasmic/endoplasmic reticulum calcium ATPase 2	VDQSILTGESVSVIK, HTDPVPDP R, IGIFGQDEDVTSK, KNAIVRSLP SVETLGCTSVICSDK, VGEATETA LTCLVEK, TVEEVLGHFGVNESTG LSLEQVK, AMGVVVATGVNTEIGK	VDQSILTGESVSVIK, NMLFSGTNIA AGK, YLAIGCYVGAATVGA AWWFI AADGGPR, DIVPGDIVEIAVGD K, VG EATETALTCLVEK, ANACNSVIK
IPI00130280.1	Q03265	Atp5a1	ATP synthase subunit alpha, mitochondrial	GMSLNLEPDNVGVVVF GNDK, FE NAFLSHVISQHQ SLLGNIR, LKEIV TNFLAGFEP, EAYPGDV FYLHSR, HALIYDDL SK, EVA AFAQFGSDLD AATQQLSR, TGAIVDVPVGEELL GR, GIRPAINVGLSVSR, LELAQYR , NVQAEEMVEFSSGLK, EIVTNFLA GFEP, VVDALGNAIDGK, AVDSL V PIGR, STVAQLVK, PAINVGLSVSR, VLSIGDGIAR, LYCIYVAIGQK, ILGA DTSVDLEETGR, TSIAIDIINQK	RVGLKAPGIIPR, TGTAE MSSILEER, FENAF LSHVISQHQ SLLGNIR, EVAA FAQFGSDLDAATQQLSR, QMSLLL R, TGAIVDVPVGEELLGR, GIRPAINV GLSVSR, VGSAAQTR, LELAQYR, EIV TNFLAGFEP, VVDALGNAIDGK, AVD SLVPIGR, PAINVGLSVSR, VLSIGDGI AR, STVAQLVK, ILGADTSVDLEETG R, ITKFENAF LSHVISQHQ SLLGNIR, TSIAIDIINQK

IPI00468481.2	P56480	Atp5b	ATP synthase subunit beta, mitochondrial		EGNDLYHEMIESGVINLK,AHGGY SVFAGVGER,DQEGQDVLLFIDNI FR,GSITSVQAIYVPADDLTDPAPA TTFAHLDATTVLSR,IVAVIGAVVD IMDPNIVGNEHYDVAR,EGNDLYHE VQFDEGLPPIILNALEVQGR,QFAP MIESGVINLK,DQEGQDVLLFIDNIFR IHAEAPEFIEMSVEQEILVTGIK,VV ,TIAMDGTEGLVR,MLSLVGR,ILQDY DLLAPYAK,ILQDYK,IGLFGGAGV K,VVDLLAPYAK,IGLFGGAGVGK,FT GK,SLQDIIAILGMDELSEEDKLTV QAGSEVSALLGR,FLSQPFQVAEVF SR,FTQAGSEVSALLGR,KGSITSV TGHMGK,IPVGPETLGR,IPSAVGYQ QAIYVPADDLTDPAPATTF AHLDA PTLATDMGMTMQR,IMNVIGEPIDER TTVLSR,FLSQPFQVAEVFTGHM ,AIAELGIYPAVDPLDSTSR,GFQQIL GK,IPVGPETLGR,AIAELGIYPAVD AGEYDHLPEQAFYMGPIEEAVAK, PLDSTSR,GFQQILAGEYDHLPEQ TVLIMELINNVAK,LVLEVAQHLGES AFYMGPIEEAVAK,TVLIMELINN TVR,VALTGLTVAEYFR,VLDSGAPIK VAK,LVLEVAQHLGESTVR,VALV YGMNEPPGAR,VALTGLTVAEY FR,VLDSGAPIK
IPI00313475.1	Q91VR2	Atp5c1	ATP synthase subunit gamma, mitochondrial		HLIIGVSSDR,KPPTFGDASVIALE LLNSGYEFDEGSIIFNQFK,LTLTF NR,THSDQFLVSFK,EVMIVGVGE VYGTGSLALYEK,GLCGAIHSSVAK K,VYGTGSLALYEK,ELIEIISGAA LD,GLCGAIHSSVAK
IPI00453777.2	Q9D3D9	Atp5d	ATP synthase subunit delta, mitochondrial		QVDVPTLTGAFGILASHVPTLQVL RPGLVVVHTEDGTTTK,AQSELS GADEAAR,PGLVVVHTEDGTTT K,IEANEALVK
IPI00341282.2	Q9CQQ7	Atp5f1	ATP synthase subunit b, mitochondrial		AQQALVQK,NNIALALEVTYR,TGV TGPPYVLGTGLSLYFLSK,IAQLEEV K,LGLIPEEFFQFLYPK,LDYHISVQ NMMR AQQALVQK,TGVTGPYVLGTGLSLY FLSK,IAQLEEVK,LGLIPEEFFQFLYP K
IPI00230507.5	Q9DCX2	Atp5h	ATP synthase subunit d, mitochondrial	TIDWVSFVEVMPQNQK,KYPYWPHQP IENL	LASLSEKPPAIDWAYYR,ANVAKP GLVDDFEKK,ANVAKPGLVDDFE K,IPVPEDK,SCAEFVSGSQLR,TID WVSFVEVMPQNQK LASLSEKPPAIDWAYYR,YPYWPHQ PIENL,IPVPEDK,NIIPFDQMTIDDLN EIFPETK,SCAEFVSGSQLR
IPI00271986.6	P56135	Atp5j2	ATP synthase subunit f, mitochondrial		DFTPSGIAGAFR,KLMEVK,LGELP SWIMMR
IPI00111770.7	Q06185	Atp5k	ATP synthase subunit e, mitochondrial		LDELKR,YSALIIGMAYGAK,YSYL KPR,ELAEAQDDSILK,MVPPVQV SPLIK
IPI00133342.1	Q9CQY3	Atp5l	Putative uncharacterized protein		LATFWHYAK,APSMVAAAVTYSK, KIIQSAK,VELVPPTPAEIPAIQSV K,APSMVAAAVTYSKPR
IPI00407692.3	P50516	Atp6v1a	Isoform 1 of V-type proton ATPase catalytic subunit A		VGHSELVGEIIR,LPANHPLLTGQ R,ASLAETDKITLEVAK
IPI00119113.3	P62814	Atp6v1b2	V-type proton ATPase subunit B, brain isoform		IPIFSAAGLPHNEIAAQICR,QIYPPIN VLP SLSR

IPI00118787.1	P57746	Atp6v1d	V-type proton ATPase subunit D	AAGEVMEPANLLAE EK,TLAYIITELDE R,FTAGDFSTTVIQNVNK	
IPI00116896.1	P03930	ATP8	ATP synthase protein 8		VSSQTFPLAPSPK,IYLP HSLPQQ, TPWELK
IPI00223024.3	Q8BMG1	Atrip	ATR-interacting protein		MLLQLMASSSAASGHFQASV LGLC LK,TNKPAAPSVSHVSPRK
IPI00123202.1	P28658	Atxn10	Ataxin-10		ITLLDIVIAK,LSGIMVPAPIQDLEAL R,CLRNACIECSVNQNSIR,NACIE CSVNQNSIR,LVGEEQLTK
IPI00117229.3		Atxn2	ataxin 2	ANQLAEEIESSAQYK,LQPSSTSESM D QLLSK,TSPAGGTWSSVSGVPR,TNS PSISPSMLSNAEHKR,GSMSSGLEFVS HNPPSEAAAPPVAR,GLPQPTISFDGIY ANVR	
IPI00459758.1	Q62506	Atxn2	Unknown protein (Fragment)		PPLVLCITK,AVGLAAATGTVA AAAAA SVKR
IPI00458001.1	Q7TQH0-2	Atxn2l	Isoform 2 of Ataxin-2-like protein	EVDGLLTSDPMGSPVSSK,LQPSSSPE TGLDPFPSR,GAESILAASAPPQHQR PGAVAIGSVR,TTYDSSLSSYTVPLEK, REDIVDTMVFKPSDVLLVHFR,EDIVDT MVFKPSDVLLVHFR,EFNPTKPLLSVN K,GPPQSPVFEQVYNNR,EKEVDGLL TSDPMGSPVSSK,TLSSPSNRPSGEA SVPPTSAVGR	LQPSSSPETGLDPFPSR,GPHHLDN SSPGPGSEAR
IPI00230633.1	P97477-2	Aurka	Isoform 2 of Serine/threonine-protein kinase 6	VLVTEQIPSNLGSASSGQAQR,VYLIL EYAPLGTVYR,DIKPENLLLGSNGELK	
IPI00387315.1	Q8C6C1	Aurkb	aurora kinase B	DIKPENLLLGLQGELK,FPSSVPSGAQ DLISK	
IPI00226228.5	Q62036	Azi1	5-azacytidine-induced protein 1	PAEPTDFLMLFEGSTSGR,LQSIMTFL DEMEK	
IPI00387388.3	A6H663	Bag3	BCL2-associated athanogene 3	VQGLEQAVDSFEGK,PGYIPIV LHEG SENR,AIDVPGQVQVYELQPSNLEAEQ PLQEIMGAVVADK,AIDVPGQVQVYEL QPSNLEAEQPLQEIMGAVVADKDK,EL LALDSVDPEGR,YLMIEEYLTK,PGPAG PDLPPGHIPIQVIR	
IPI00895277.1	B1ASC0	Bai2	Brain-specific angiogenesis inhibitor 2		SVLFQALFAVFNSAQQGFVITAVHCF LR,RTLSLQPGGGGTAGEEAPR,AG ASLWSSCVLPLLALTWMSAVLAM TDRR,EVQDVVK
IPI00119959.1	O54962	Banf1	Barrier-to-autointegration factor	DFVAEPMGEKPVGSLAGIGDVL SK,HR DFVAEPMGEKPVGSLAGIGDVL SK,AY VVLGQFLVLK	DFVAEPMGEKPVGSLAGIGDVL SK, K,DCFGCLR,KDEDLFR,PVGS LA GIGDVL SK,AYVVLGQFLVLK

IPI00129519.3	Q91XV3	Basp1	Brain acid soluble protein 1	ESEPQAAADATEVK,AEPEKSEGAEE QPEPAPAPEQEAAPGPAAGGEAPK, AGEASAESTGAADGAAPEEGEAK,SE GAAEEQPEPAPAPEQEAAPGPAAG GEAPK,APAPAAPAAAEQAEAPAAA SSEQSVAVKE,APAPAAPAAAEQAEA PAAAASSEQSVAVK	
IPI00409462.2	Q9Z1N5	Bat1a	Spliceosome RNA helicase Bat1	LTLHGLQQYYVK,ILVATNLFGR,LFDLL DVLEFNQVIVFK,DFLLKPELLR,GLAI TFVSDENDAK,KFMQDPMEIFVDEETK ,FMQDPMEIFVDEETK	LTLHGLQQYYVK,ILVATNLFGR,K DEEVLK,DFLLKPELLR,GLAITFVS DENDAK,ILNDVQDR,FEVNISELP DEIDISSYIEQTR,VAVFFGGLSIK, CIAQAQLLVEQNFPAIAIHR,GSYV SIHSSGFR
IPI00380722.1	Q7TSC1	Bat2	Large proline-rich protein BAT2	LKAEPAPPVTPAAPALPPVVPK,YSS LNLFDYK,SSDASTAQPPESQPLPAS QTPASNQPK	
IPI00330171.3		Bat2d	RIKEN cDNA 1810043M20	LPDLSLVENK,MMWGSDPYHAEPQQA ATPK,ESVTDYTPSSSLPNTVATNNA K,LPSAQTSTNGTDFVAAGK,AFGSGIDI KPGTPPIGGR,AENKGNPNVNIIVPKD GTGWASK,QLGQDESTAITSEQNDILK, VAAPAVLNDISK,YATLSLFNTYK,DQM EGSPNSSESEFEIAR,PSQDEKLEPV GSVQVEPVVK	HGLQSLGK,APEVSPAQPK
IPI00380415.2	Q7TPM1	Bat2l	Isoform 1 of Protein BAT2-like	LQDVLASNAGLTQSIPILR,SPDEALPG GLGSHSPYALER,SSPYGTLKPEEISG PGLAESK	
IPI00120684.2	Q07813	Bax	Apoptosis regulator BAX		VVALFYFASK,TGAFLLQGFIQDR
IPI00130157.2		Baz2a	bromodomain adjacent to zinc finger domain, 2A		AFSDCLTIVEFLHSFGK,PKPGSLQP QLHQSTIR
IPI00625898.3	Q8VBW5	Bbx	Isoform 1 of HMG box transcription factor BBX	QFFLDAIHPTAIFSEDK,QSSESDIES VMYTIEAVAK	
IPI00115553.2	Q3TQI7	BC005624	Uncharacterized protein C9orf78 homolog	FYHEELNAPIR,VSEEDLHLGTSFSAE TNR,KDSETSFVPTNMAVNYVQHNR,K TEEMLSNQMLSGIPEVDLIGIDAK,VQE ETTLVDDPFQMATGGMVDK,KRPNG VSAAALLVGEK,DSETSFVPTNMAVNY VQHNR	
IPI00653023.2	A2AS03	BC006779	Novel protein, possible orthologue of human peroxisomal proliferator-activated receptor A interacting complex 285 PRIC285		RHELAFVCR,TYTLAMAALVVQ QPHTK

IPI00347814.2	Q5U445	BC085271	cDNA sequence BC085271	VEVTEFEDIK,EQQEAIEHIDEVQNEID R,IDFYFDENPYFENK	EQQEAIEHIDEVQNEIDR,VEVTEF EDIK,RQSAILPQPK,IPNFWVTTF VNHPQVSALLGEEDEEALHYLTR, GEKEQQEAIEHIDEVQNEIDR,LN EQASEEILK,IDFYFDENPYFENK
IPI00279010.6	Q99K86	Bcam	Bcam protein	VEDYDADEEVQLVK,TQSFQLIVQGAP ELKPNEIMPK,EASGLYSLTSTLYLR,LA SVEPQGSEFLGTVHSLGR	
IPI00316184.1	Q9D287	Bcas2	Pre-mRNA-splicing factor SPF27	EAAAALVEEETR,TIVQLENEIQIK	
IPI00415385.1	Q8K019	Bclaf1	Isoform 1 of Bcl-2-associated transcription factor 1	SQEEPKDTFEHDPSESIDEFNK,DTFE HDPSESIDEFNK	
IPI00134095.3		Birc6	baculoviral IAP repeat-containing 6		TAEIVHAATANLR,LVNILVQLPLS SNR,LLDYVATVEDEAAAAK,LLA GQPLPAEMTLAQLLTLLYDR
IPI00153107.3	Q8R016	Blmh	Bleomycin hydrolase		ATVQGAQHVFQHVVPQEGKPVTN QK,TLYNNQPIDFLK,IGPITPLQFYK
IPI00857740.1		Blvrb	27 kDa protein	TGLTTLAQAVQAGYEVTVLVR,YVAVM PPHIGDQPLTGAYTVTLTLDGR,LPSEGP QPAHVVVGDVR	ILQESGLK,TGLTTLAQAVQAGYE VTVLVR
IPI00453860.2	Q6PGF5	Bms1	BMS1-like, ribosome assembly protein	IAATGVVLDLDDK,LLMSDIVFMR	
IPI00111953.1	Q9D8S9	Bola1	BolA-like protein 1	NESGGHAVPAGSETHFR,LVHEALSE ELAGPVHALAIQAK	
IPI00221694.1	Q8BGS2	Bola2	Isoform 1 of BolA-like protein 2		TLTPEQWTR,LVNECLAEELPHIH AFEQK
IPI00387354.5	P97452	Bop1	Ribosome biogenesis protein BOP1		LTDEQVALVHR,GDYLAVVLSSQE IYKPLR,TVHVGGVVR,LLVGSTDQL HTQVLLHQVSR LEAFTPPEEPALQPAR,AVAFHPR
IPI00133099.1	O88665	Brd7	Bromodomain-containing protein 7	NNDYQSIEELKDNFK,EMYLAEQVTNN LK,VGGSEVTELTGSSGHSSLFEDR	
IPI00130436.5	Q9DCA5	Brix1	Brix domain-containing protein 2	NFQIIEEDAALVEIGPR,SQPFVDHVFT FTILDNR,RGGLEVQAK,TILPHDPTAD VFVIPAEK,PLLSFDPAFDDLPHYALL K,EFLIQIFSTPR,FLVQNIHTLAELK	FVLNLIK,SQPFVDHVFTTILDNR, EFLIQIFSTPR
IPI00408495.1	P18572	Bsg	Isoform 1 of Basigin		YVVVSTPEK,VLQEDTLPDLHTK

IPI00515257.1	Q64152	Btf3	Isoform 1 of Transcription factor BTF3	VQASLAANTFTITGHAETK,APLATGED DDDEVPDLVENFDEASKNEAN,KLGV NNISGIEEVNMFTNQGTVIHFNNPK,G GWPGAEATPSLPLGGSR,APLATGED DDDEVPDLVENFDEASK,LGVNNISGI EEVNMFTNQGTVIHFNNPK,ETIMNQE KLAKLQAQVR,QLTEMLPSILNQLGAD SLTSLR	VQASLAANTFTITGHAETK,APLAT GEDDDDEVPDLVENFDEASKNE AN,LGVNNISGIEEVNMFTNQGT VIHFNNPK	VQASLAANTFTITGHAETK,APLATG EDDDDEVPDLVENFDEASK,LGVNN ISGIEEVNMFTNQGTVIHFNNPK,QL TEMLPSILNQLGADSLTSLR
IPI00132539.3	Q9CQH7	Btf3l4	Transcription factor BTF3 homolog 4	APKPEDIDEEDDDVPDLVENFDEASK NEAN,KLAVNNIAGIEEVNMIK,LAVNNI AGIEEVNMIK,VQASLSANTFAITGHAE AK,APKPEDIDEEDDDVPDLVENFDEA SK		
IPI00420724.4	Q6ZWM5	Bub3	Putative uncharacterized protein	VAVEYLDPSPEVQK,FSPNTSQFLLVS SWDTSVR,MHDLNTDQENLVGTHDAP IR		
IPI00118762.6	O54825	Bysl	Bystin	HAPLAEQILAGNAVR,MAGVDHQAEVI VDPEDER,EAIIVGSIITK,FYNLVLLPR,I AEMEYSGANSIFLR		
IPI00132388.3	Q9CQC6	Bzw1	Basic leucine zipper and W2 domain- containing protein 1		DIILYVK,FDPTQFQDCIIQGLTETG TDLEAVAK,IVVLFYK	
IPI00330711.4	Q3U155	C130022K22Rik	Uncharacterized protein C3orf19 homolog	DFSFGFWSK,DPEFAPPSNYFVGQK,K PLDVTASSLVDLK		
IPI00132799.4	Q8R5L1	C1qbp	complement component 1, q subcomponent binding protein	MMSGDWELEVNGTEAK,AFVEFLTDEIK EEK,AEEQEPELTSTPNFVVEVTK,AFV EFLTDEIK,EVSFQATGDSEWR	SLPKMSGDWELEVNGTEAKLLR, DTNYTLNTDSDLWALYDHLMDFL ADR,AFVEFLTDEIKEEK,GVDNTF DR,GVDNTFADELVELSTALEHQEYI ADELVELSTALEHQEYITFLEDLK, TFLEDLK,AEEQEPELTSTPNFVVEV TK EFLTDEIK	DTNYTLNTDSDLWALYDHLMDFLA DR,GVDNTFADELVELSTALEHQEYI TFLEDLK,AEEQEPELTSTPNFVVEV TK
IPI00226576.1	Q8BWZ3	C330023M02Rik	Isoform 1 of N-terminal acetyltransferase B complex subunit MDM20		LALPADIR,IENSLASLLELLK,LLLQ QLEVAVETGKR,GLQQHLCVVQL TR,VQSSYLHSLLETGELLR,EAG EETAVWQALTLEEGLTHSPSNA QFK,IYCVLGAFEPVVDLYSSLDA K,ETSIIMPPIFTSFQDYVTGLQTVI SNAVDHIK	
IPI00115650.4	Q9CXW3	Cacybp	Calcyclin-binding protein	EKPSYDTEADPSEGLMNVLKK,NYSMI VNNLLKPISVESSSK,IYITLTGVHQVP TENVQVHFTER,EKEKPSYDTEADPSE GLMNVLK,WDYLTQVEK,PAAVVAPLT TGTYVK,NLNGKNYSMIVNLLKPISVE SSSK,NYSMIVNLLKPISVESSSK,KP ELDNEKPAAVVAPLTTGYTVK,EKPSY DTEADPSEGLMNVLKK,NYSMIVNLLK, IYEDGDDDMKR	IYITLTGVHQVPTENVQVHFTER,T WDYLTQVEK,PAAVVAPLTTGYTVK, DTVIILCR,SKIETELK,LRDTLTSEK PELDNEKPAAVVAPLTTGYTVK,NY ,KPELDNEKPAAVVAPLTTGYTVK ,SFDLLVK	SMIVNLLKPISVESSSK,PISVESS K

IPI00380280.3	B2RQC6	Cad	carbamoyl-phosphate synthetase 2, aspartate transcarbamylase, and dihydroorotase	VYFLPITLHYVTQVIR,VLSEPNPR,HPQPGAVELAAK,ASDPGLPAEEK,VLGTSPEAIDSAENR,LYLNETFSELR,QIALAVLSTELAVR,VFNAGGAPR,VNEISVEVDSDPR,RLSSFVTK,LAADFSVPLIIDIK,ICALDCGLK,AIVHAVGQELQVTGPFNLQLIAK,APHVLVLGSGVYR,LGYPVLVRF,FLSSAAAVSK,ALKEENIQTLINPNIATVQTSQGLADK,NILLTIGSYK,AAFALGGLGSGFASTK,MALLATVLGR,LSLDDLLQR,GIPGLQGVDTR,PVFGICLGHQLLALAIGAK,LALGIPLPELR,LPGLIDVHVHLR,GHNQPCLLVGTGR,EIEYEVVR,EAAAGNIGGQTVR,AQGLPVTCEVAPHHLFLNR,KEEILLIK,LLESLGYSLYASLGTADFYTEHGVK,EELSALVAPAFHTSQVLIDK,AQILVLTYPPLIGNYGIPSDDEEDEFGLSK,LGGAVLSFSEATSSVQK,LCPPELPIPGSGLPPPR,GEVRPELGSR,GTEPSALPFVDPNARPLAPEVSIK,PLAPEVSIK,SFEEAFQK,VTAVDWHFEEAVDGECPQR,LLDTIGISQPQWR,ATGYPLAYVAAK,LFVEALGQIGPAPPLK,ELSDLESAR,IDCWFLHR,IVTHAQLLEQHR,NERPDGVLLTFGGQTALNCGVELTK,TLGVDLVALATR,EHPVVISK,VLILGSGGLSIGQAGEFDYSGSQAIAK,AGPSDMELLFDFLETVR,GEVAYIDGQVLVPPGYGQDVR,RPVINAGDGVGEHPTQALLDIFTIR,RVIPGLPDGR	LLDTIGISQPQWR,LFVEALGQIGPAPPLK,LGYPVLVRF,GQALPQDLLHQA K,VYFLPITLHYVTQVIR,AAFALGGLGSGFASTK,AQGLPVTCEVAPHHLLNR,HPQPGAVELAAK,NSVTGGTAVTHAQLLEQHR,EELSALVAPAFHTSQVLIDK,LALGIPLPELR,CGPKPPGFPGLETMLPLLLTAVSEGR,LCPPELPIPGSGLPPPR,GEVRPELGSR,AIVHAVGQELQVTGPFNLQLIAK
IPI00311344.3		Cald1	89 kDa protein	LEQYTNAIEGTK,QUEEESLGQVTDQVEAHVQNSVPDEESK,QQEAALLELEELK, YEVEETEVIK,PASSNTQVEGDEEAA LLER,efdptitdgsLsgpsr	
IPI00467841.6	Q3UKW2	Calm1	Putative uncharacterized protein	EAFSLFDKDGDTITTK,EADIDGDGQVNYEEFVQMMTAK,VFDKDGNGYISA AELR	
IPI00123639.1	P14211	Calr	Calreticulin	FYALSAK,GQTLVVQFTVK,HEQNI DCGGGYVK,GLQTSQDAR,IKDPD AAKPEDWDER,SGTIFDNFLITND EAYAEFFGNETWGVTK,KVHVIFN YK	VHVIFNYK,FYALSAK,EQFLDGDWATNR,HEQNIDCGGGYVK,GLQTSQDAR,SGTIFDNFLITNDEAYAEFFGNETWGVTK,GEWKPR,QIDNPDYK

IPI00399958.3	Q6XLQ8	Calu	calumenin isoform 2	EEFTAFLHPEEYDYMK,YDLFVGSQAT DFGEALVR,DWILPSDYDHAEAEAR,S FDQLTPEESK,IDADKDGFTVEGELK,L GMIVDKIDADKDGFTVEGELK,EEIVDK YDLFVGSQATDFGEALVR,DIVVQETM EDIDK,NADGFIDLEEYIGDMYSHDGN ADEPEWVK,YIYDNVENQWQEFDMNQ DGLISWDEYR,VHND AQNFYDHDFAF LGAEAAK		
IPI00135186.1	O35887	Calu	Calumenin	EEFTAFLHPEEYDYMK,YDLFVGSQAT DFGEALVR,DWILPSDYDHAEAEAR,S FDQLTPEESK,DGFVTVDDELK,VDELK, EEIVDKYDLFVGSQATDFGEALVR,IDD DKDGFVTVDDELK,GHDLNEDGLVSWE EYK,DIVVQETMEDIDK,NADGFIDLEEY IGDMYSHDGN ADEPEWVK,VHND AQN FDYDHDFAFLGAEAAK		
IPI00673777.2	A2AHC3	Camsap1	Isoform 1 of Calmodulin-regulated spectrin-associated protein 1	VESLEALPILSR,ASLIEVDLSDLK,SSP CLSTTSQLSSMSMASGSVK		
IPI00670928.3		Camsap111	calmodulin regulated spectrin-associated protein 1-like 1	QQLEAEMEHKK,GPPVSSLSLASLNTG DSESVHSGK		
IPI00896727.1	Q6ZQ38	Cand1	Cullin-associated NEDD8-dissociated protein 1	EVYPHVSTIINICLK,IDLRPVLGEG VPILASFLR,LTLDIPETLLPR,TLED PDLNVRRL,DLSDVLPFLYNETK,I SGSILNELIGLVR,TVSPALIAR,AV AALLTIPEAEK,LLALLSLGEVGHHI DLSGQLELK,EGPAVVGQFIQDVK ,LGTLSALDILIK,SAASYALGSISV GNLPEYLPFVLQEITSQPK	IDLRPVLGEGVPILASFLR,LTLDIP ETLLPR,ISGSILNELIGLVR,SPLMSEF QSQISSNPELAAIFESIQA,FTISDHP QPIDPLLK,LSTLCPSAVLQR,ITSEA LLVTQQLVK,EGPAVVGQFIQDVK,L GTLSDILIK,QQGLLVNFHPSILTC LLPQLTSPR	
IPI00119618.1	P35564	Canx	Calnexin	LNKPFLFDTKPLIVQYEVNFQNGI ECGGAYVK,IPNPdffedLEPFK,V VDDWANDGWGLK,GSLSGWILS K,RPDADLK,APVPTGEVYFADSF DR,KPEDWDERPK,PEDWDERPK ,RDEEEEEKLEEK,AEDEILNR, TAELSLDQFHDK,IADPDAVKPDD WDEDAPSK,KIPNPdffedLEPFK ,SDASTPPSPK,TDAPQPDVKDEE GKEEEK,DEEEEEKLEEK,KTDA PQPDK	IPNPdffedLEPFK,VVDDWANDGW GLK,TAELSLDQFHDK,IADPDAVKP DDWDEDAPSK,LNKPFLFDTK,GSL SGWILSK,SDASTPPSPK,APVPTGE VYFADSFDR,KPEDWDERPK	
IPI00869430.1	Q8BPT7	Cap1	Adenylyl cyclase-associated protein	LSDLLAPISEQIQEVITFR,LGLVFDDVV GIVEIINSR	HAEMVHTGLK,GAVPYVQAFDLSL LANPVAEYLK,LSDLLAPISEQIQE VITFR,SALFAQINQGESITHALK	HVDWVR,HAEMVHTGLK,GAVPYV QAFDLSLANPVAEYLK,LSDLLAPIS EQIQEVITFR,SALFAQINQGESITHA LK

IPI00277930.6	Capg	Putative uncharacterized protein	AQVEIITDGEEPAEMIQVLGPK,YSPNT QVEILPQGR,QAALQVADGFISR,EVQG NESDLFMSYFPR,EGNPEEDITADQTN AQAAALYK			
IPI00757359.1	Q60865	Caprin1	Caprin-1	QFMAETQFSSGEK,SSGPPPPSGSSG SEAAAGAAAPASQHPATGTGAVQTEA MK,SFMALSQDIQK,TVLELQYVLDK,Q GLSGVPILSEEELSLLEDFYK,LNEQYE HASIHLWDLLEGK,YQEVTTNNLEFAK,P SFSNTPNSGYSQSQFTAPR,GGYDGY RPSFSNTPNSGYSQSQFTAPR	LNQDQLDAVSK,LGDDDVDR,SFM ALSQDIQK,TVLELQYVLDK,GKLD DYQER,LNEQYEHASIHLWDLLE GK,YQEVTTNNLEFAK	SSGPPPPSGSSGSEAAAGAAAPAS QHPATGTGAVQTEAMK,LNQDQLD AVSK,TVLELQYVLDK,QGLSGVPIL SEEELSLLEDFYK,YQEVTTNNLEFAK ,LNEQYEHASIHLWDLLEGK,PVCGT TYK
IPI00330063.6	P47753	Capza1	F-actin-capping protein subunit alpha-1	DVQDSVTVSNEVQTTK,EGAAHFAAQ YNMDQFTPVK,IEGYDDQVLITEHGDL GNSR,LLLNNNDNLLR,IQVHYEDGNV QLVSHK	FTITPPSAQVVGVLK,LLLNNNDNLLR	
IPI00111265.3	P47754	Capza2	F-actin-capping protein subunit alpha-2	IEGYEDQVLITEHGDLGNGK,FTVTPST TQVVGILK,LLLNNNDNLLR,IQVHYEDG NVQLVSHK	FTVTPSTTQVVGILK,LLLNNNDNLL R	FTVTPSTTQVVGILK,LLLNNNDNLLR
IPI00474883.2	A2AMV7	Capzb	Capping protein (Actin filament) muscle Z-line, beta		RLPPQQIEK,NLSDLIDLVPSCEDLL SSVDQPLK	
IPI00121534.11	P00920	Car2	Carbonic anhydrase 2	AVQQPDGLAVLGIFLK,QSPVDIDTATA QHDPALQPLLLISYDK	AVQQPDGLAVLGIFLK,YAAELHL VHWNTK,IGPASQGLQK	AVQQPDGLAVLGIFLK,IGPASQGLQ K,QSPVDIDTATAQHDPALQPLLLISY DK
IPI00331422.4	Q9ER72	Cars	Isoform 1 of CysteinyI-tRNA synthetase, cytoplasmic	FMNEFFLNVK,VLEVLQLSDALR		
IPI00409176.1	P51125	Cast	Isoform 1 of Calpastatin	GVPEDAVETLAGSLGTR,LSAAISEV VSQTPAPSTHAAAPLPGTEQK,FQDVP SAGGESVAGGGTVATALDK,KVEEEVI NDQALQALSDSLGTR,SGMDAALDDLI DTLGGHEDTNR,SLSESELIGELSADF DR,VEEEVINDQALQALSDSLGTR		
IPI00312058.5	P24270	Cat	Catalase	GPLLVDVFTDEMAHFDR,EAETFPF NPFDLTK,FSTVAGESGSADTVR		
IPI00652341.1	Q3U527	Cbl	Casitas B-lineage lymphoma	GTEPIVVDPFDPR,CEIKGTEPIVVDPF DPR		
IPI00844721.1	Q9JIY2	Cbl1	Isoform 1 of E3 ubiquitin-protein ligase Hakai	RGPPPPPR,ASLENVHPPPIAPPPTDIPD R		
IPI00314191.6	P48758	Cbr1	Carbonyl reductase [NADPH] 1	SETITEEELVGLMKN,EYGGDLVLVNN AGIAFK,SPEEGAETPVYLALLPPDAEG PHGQFVQDK		
IPI00677454.2	Q9DCC5	Cbx3	Chromobox homolog 3	WKDSDEADLVLAK,VEEAPEEFVVEK ,IIGATDSSGELMFLMK,DSDEADLVLA K,KVEEAPEEFVVEK	CPQIVIAFYEER,GFTDADNTWEP EENLDCPELIEAFLNSQK,IIGATD SSGELMFLMK,KVEEAPEEFVVEK EK	
IPI00458723.2	Q9D8X2	Ccdc124	Coiled-coil domain-containing protein 124	EQLERK,AAFTAEEVQLPR,TVEDAIA VLSVAEEADRHPR		

IPI00122137.6	Q8C9M2-2	Ccdc15	Isoform 2 of Coiled-coil domain-containing protein 15	AQNYLHNYQEQLQLQNQEVNSK,YQ NQHFLPVDQEFLPR	
IPI00466468.2	Q3UHY7	Ccdc32	coiled-coil domain containing 32	PWAPLHDSEVYLASLEK,LASEFFVDG LDSDESTLEHFK	
IPI00133032.5	Q9CR29	Ccdc43	Isoform 1 of Coiled-coil domain-containing protein 43	KEDEVQAIATLIEK,EDEVQAIATLIEK	
IPI00170090.5	Q8C804	Ccdc52	Coiled-coil domain-containing protein 52	EENSELINQLWTDIQQK,QEWDNTVN DLTVHR,IAELTLQNSAIK,SNSEFSPLQ DVLRL	
IPI00381495.5		Ccdc6	coiled-coil domain containing 6	IDLENTLEQEQEALVNR,AELEQHLEQ EQEFQVNK,EKETLAVNYEKEEEFLTN ELSR,AEQEEEFISNTLFFK,EKIDLENTL EQEQEALVNR,DISMEIDSPENMMR	
IPI00468895.2	Q6NS45	Ccdc66	Isoform 1 of Coiled-coil domain-containing protein 66	TNEIYYLDPDAPLSR,SMTALLDPAQIE ER,QKQLEHQKAIMAQVEENR	
IPI00229261.5	Q3UFS4	Ccdc75	Coiled-coil domain-containing protein 75	LQILTGYLR,SGDGIVEPIPLNVK	
IPI00378506.1	Q8BYH3	Ccdc76	tRNA guanosine-2'-O-methyltransferase TRM13 homolog		DVPETWTPVAGIVIALCCHHR,GFS PALQYYTDPLVSLLENVLLTAVPAHP SSQEK,KIGHLCK
IPI00844630.1	Q6VGS5-2	Ccdc88c	Isoform 2 of Protein Daple		RLIDER,EKLHDVDFYK
IPI00123958.2	Q923A2	Ccdc99	Protein Spindly	LPPHREEESCLNSLK,VLSSMSSELLA LELTAAEGVK	
IPI00111207.1	P24860	Ccnb1	G2/mitotic-specific cyclin-B1		VLNFSLGRPLPLHFLR,VPVTVTAAS KPGLRPR,ISTLAQLNCTLVQNLSK
IPI00752728.2	Q3UUW5	Ccnh	Putative uncharacterized protein	FYLNNSVMEYHPR,YPMLENPEILR	
IPI00320217.9	P80314	Cct2	T-complex protein 1 subunit beta	QVLLSAAEAAEVILR,DAALMVTNDGA TILK	FWQDLMNIAGTTLSSK,GATQQIL DEAER,LALVTGGEIASTFDHPEL VK,LAVEAVLR,HGINCFINR,MLPT IIADNAGYDSADLVAQLR,SLHDAL CVLAQTVK,ILIAN TGMDTDK,GSG NLEAIHVIK,GSGNLEAIHVIK,QLI YNYPEQLFGAAGVMAIEHADFAG VER,VQDDEVDGDTTSTVTLAAE LLR,VAEIEHAEK,LIHFSGVALGEA CTIVLR,LSSFIGAIAIGDLVK,AAHS EGHITAGLDMK,EALLSSAVDHGS DEAR,DAALMVTNDGATILK,LGG SLADSYLDEGFLLDK,LIEEVMIGE DK,NIGVDNPAAK,IGVNQPK

IPI00116283.1	P80318	Cct3	T-complex protein 1 subunit gamma	EDDVGTGAGLLEIK,TAVETAVLLLR	TLIQNCGASTIR,IPGGIIEDSCVLR ,VQSGNINAANK,SMIEISR,EMMLSII NSSITTK,ELGIWEPLAVK,IDDIVS GHK,EIQVQHPPAAK,KGESQTDIEI TR,IVLLDSSLEYK,NVLLDPQLVP GGGASEMAVAHALTEK,IVSRPEE LREDDVGTGAGLLEIK,ISTPVDVN NR,TAVETAVLLLR,AVAQALEVIP R,EILSEVER,ACTILLR,ILQMEEEE IHQLCEDIIQLKPDVVITEK,KVQS GNINAANK,TIADIIR	TLIQNCGASTIR,IPGGIIEDSCVLR,M ALDDMISTLK,VQSGNINAANK,WSSL ACNIALDAVK,ELGIWEPLAVK,IDDI VSGHK,EIQVQHPPAAK,KGESQTDIE ITR,NVLLDPQLVPGGASEMAVAH ALTEK,IVLLDSSLEYK,ISTPVDVNN R,EDDVGTGAGLLEIK,AVAQALEVIP R,ILQMEEEEYIHQLCEDIIQLKPDVVI TEK,ACTILLR,IVSRPEELR
IPI00116277.3	P80315	Cct4	T-complex protein 1 subunit delta		GGISNILEEMVVQPLLVSVALTL ATETVR,GDVTITNDGATILK,PVQ LSDR,ETLLNSATTSLNSK,SGAPT AGPGSR,AFADAMEVIPSTLAENA GLNPSTVTELR,DVEREDIEFICK, IGLIQFCLSAPK,ITGCTSPGK,AQ DIEAGDGTTSVVIAGSLDSCCTK, VIDPATATSVDLR,SIHDALCVIR,K TGCNVLLIQK,DALSDLALHFLNK, AYILNLVK,KGGISNILEEMVVQPL LVSVALTLATETVR,LVIEEAER, GIHPTIISESFQK,MPENVASRSGA PTAGPGSR,ALIAGGGAPEIELAL R,VANSGITR	GDVTITNDGATILK,QMQVLHPPAA, PVQLSDR,SGAPTAGPGSR,TGCNV LLIQK,ETLLNSATTSLNSK,AFADAM EVIPSTLAENAGLNPSTVTELR,VID PATATSVDLR,SIHDALCVIR,LGGTI DDCELVEGLVLTQK,IDDVVNTR,AYI LNLVK,LVIEEAER,GIHPTIISESFQK, VANSGITR,ALIAGGGAPEIELALR
IPI00116279.3	P80316	Cct5	T-complex protein 1 subunit epsilon	GSNDMQYQHVIETLIGK,DGDVTITND GATILSMMDVDHQIAK,VLVDINNPEPL IQTAK,WVGGPEIELIAIATGGR	IADGYEQAAR,ETGANLAICQWGF DDEANHLLQLNGLPAVR,AVTIFIR ,AFADALEVIPMALSENSGMNPIQ TMTEVR,LGFAGVVQEISFGTTK, VLVDINNPEPLIQTAK,LMVELSK, WVGGPEIELIAIATGGR,IAIQHLD K,SQDDEIGDGTGVVVLGALLE EAEQLLDR,IAILTCPFEPPKPK	ETGANLAICQWGFDEANHLLLQN GLPAVR,AFADALEVIPMALSENSG MNPIQTMTEVR,LGFAGVVQEISFG TTK,FSELTSEK,WVGGPEIELIAIAT GGR,IAIQHLDK,QQISLATQMVR,SQ DDEIGDGTGVVVLGALLEEAEQL LDR,IAILTCPFEPPKPK,IADGYEQA AR,VVYGGGAAEISCALAVSQEADK, SHIMAAK,LMGLEALK,VLVDINNPE PLIQTAK
IPI00116281.3	P80317	Cct6a	T-complex protein 1 subunit zeta	AQAALAVNISAAR,KKDEPIDLFMVEIM EMK,GIDPFSLDALAK,VHAELADVLTE AVVDSILAIR,AQLGVQAFADALLIIPK	GLVLDHGAR,GIDPFSLDALAK,VA TAQDDITGDGTSSNVLIIGELLK,A QLGVQAFADALLIIPK,IITEGFEEA K,FTFIEK,ALQFLEQVK,HTLTQIK, AQAALAVNISAAR,SVTLLVK,GFV VINQK,NAIDDGCVVPGAGAVEVA LAEALIK,VLAQNSGFDLQETLVK, VHAELADVLTEAVVDSILAIR,GLQ DVLRL,MLVSGAGDIK	GLVLDHGAR,TEVNSGFFYK,GIDPF SLDALAK,AQLGVQAFADALLIIPK,II TEGFEEAK,ALQFLEQVK,HTLTQIK, AQAALAVNISAAR,SVTLLVK,KQLLH SCTVIATNILLVDEIMR,NAIDDGCVV PGAGAVEVALAEALIK,VHAELADVL TEAVVDSILAIR,VLAQNSGFDLQET LVK,QADLYISEGLHPR,GLQDVLRL, MLVSGAGDIK

IPI00331174.5	P80313	Cct7	T-complex protein 1 subunit eta	MVVDVAVMMLDELLQLK,TATQLA VNK,IALLNVELELK,INALTAASEA ACLIVSVDETIK,TCTIILR,ATISND GATILK,SQDAEVDGDTTSVTLA AEFLK,INALTAASEAACLIVSVDE TIKNPR,LPIGDVATQYFADR,VQG GALEESQLVAGVAFK,ALEIIPR,SL HDAIMIVR	MVVDVAVMMLDELLQLK,TATQLAVN K,LLDVVHPPAAK,YNFFTGCQPK,QLC DNAGFDATNILNK,EGTDSSSQGIPQL VSNISACQVIAEAVR,VHTVEDYQAI VDAEWNILYDK,INALTAASEAACLIV SVDETIK,ATISNDGATILK,LPIGDVA TQYFADR,VQGGALEESQLVAGVAF K,QVKPYVEEGLHPQIIR,ALEIIPR,S LHDAIMIVR
IPI00469268.5	P42932	Cct8	T-complex protein 1 subunit theta	KFAEAFEAIIPR,VDQIIMAK,AHEIL PELVCCSAK,ELEVQHPPAAK,GST DNLMDDIER,DVDEVSSLLR,FAE AFEAIIPR,ALAENSGVK,HFSGLEE AVYR,APGFAQMLK,VADIALHYA NK,IGLSVSEVISGYEIAACK,NVGL DIEAEVPAVK,ILGSGIYSSSVLHG MVFK,IAVYSCPFDMITETK,YN MLVR,GEENLMDAQVK,LFVTNDA ATILR,ETEGDVTSVK,LATNAAVT VLR,LYSVHQEGNK,AIAGTGANVI VTGGK,ANEVISK,AVDDGVNTFK, LVPGGGATEIELAK	ILGSGIYSSSVLHGMVFK,AHEILPEL VCCSAK,IAVYSCPFDMITETK,QIT SYGETCPGLEQYAIK,ELEVQHPPAA K,DVDEVSSLLR,FAEAFEAIIPR,LFV TNDAAATILR,YNIMLVR,HFSGLEEAV YR,APGFAQMLK,VADIALHYANK,LA TNAAVTVLR,NVGLDIEAEVPAVK,T VGATALPK,IGLSVSEVISGYEIAACK ,LYSVHQEGNK,AIAGTGANVITGG K,LVPGGGATEIELAK,EDGAISTIVL R
IPI00268688.3	Q9JLQ0	Cd2ap	CD2-associated protein	LGLFPSNFVK,VNTAAFLTPELAK	
IPI00109203.3	Q9CWK3	Cd2bp2	CD2 antigen cytoplasmic tail-binding protein 2	VTFQGVGDEDEGEDEISVPK,KVTFQGV GDEDEGEDEISVPK	
IPI00169700.4	Q76KJ5	Cd3eap	DNA-directed RNA polymerase I subunit RPA34	TMEPVAELPVPSATSSK,FSAFGGSP VTGPGSASALR,RVGETEALPDDFEP QGALAPSK,VGETEALPDDFEPQAL APSK	VPLQLIPTSLPPQIPAGLRPR,TMEP VAELPVPSATSSK,FSAFGGSPPV TGPGSASALR
IPI00114491.1	P11440	Cdc2a	Cell division control protein 2 homolog	HPYFDDLDNQIK,KPLFHGDSEIDQLFR ,DLKPQNLLIDDK,IRLESEEEGVPSTAI R,NLDENGLDLLSK,HPNIVSLQDVL MQ DSR	YSTPVDIWSIGTIFAELATK,VYTH EVVTLWYR YSTPVDIWSIGTIFAELATK,IGEGTY GVVYK,WKPGSLASHVK
IPI00117087.1	Q61081	Cdc37	Hsp90 co-chaperone Cdc37	ELEVAESDGQVELER,KLKELEVAESD GQVELER,NMPWNVDTLTK,LGPGGL DPVEVYESLPEELQK,EGEEAGPGDPL LEAVPK	YLSDNVHLVCEETANYLVIWCIDLE VEEK,LGPGGLDPVEVYESLPEELQ K
IPI00113849.1	P60766-2	Cdc42	Isoform 2 of Cell division control protein 42 homolog	TPFLLVGTQIDLR,YVECSALTQK	
IPI00124906.1	Q9JM96	Cdc42ep4	Cdc42 effector protein 4	DQWGSEEEEEAGGYR,DSSSLSSYTS GVLEER,ADLTAEMISAPLGDFR,DKEG PSSIVQAPPVLEVPPLGR,AGDAFGD TSFLTSTK	

IPI00284444.5	Q6A068	Cdc5l	Cell division cycle 5-related protein	GVDYNAEIPFEK,LGLLGLPAPK,TEWS REEEKLLHLAK,DKLNINPEDGMADY SDPSYVK,PARPDPIDMDELEMLSE AR,ESDLPSAILQTSQVSEFTK,PSEVN ETILRPLNVEPPLTDLQK,NDFEIVLPE NAEK,LVLPAPQISDAELQEVVK,QLND LWDQIEQAHLER,AQDALVQEMEVV K,ILQEAQNLMALTNVDTPLK,QTAEES GITNSASSTLLSEYNVTNNSIALR,SKL VLPAPQISDAELQEVVK,KKESDLPSAI LQTSQVSEFTK,KPALGFYDTSEENYQ ALDADFR,KPALGFYDTSEENYQALDA DFRK,WYEWLDPSIK,DLPRPSEVNETI LRPLNVEPPLTDLQK,GGLNTPHESD FSGVTPQR,NVGFATNNSHITYLEHS PYEK,RGVDYNAEIPFEK,EIDDTYIEDA ADVDAR,NDFEIVLPENAEKELEER,LNI NPEDGMADYSDPSYVK	VGQASEVAR,IASLLHR,RLAALQK,E SDLPSAILQTSQVSEFTK,GGLNTPH HESDFSGVTPQR,LVLPAPQISDAEL QEVVK,LGLLGLPAPK,AAGIEIQK
IPI00170345.1	Q8JZM7	Cdc73	Parafibromin	SFVDAEVDVTR,TDLDDDITALK,KTQT PAAQPVPR,NIFAILQSVK,GDEVIFGEF SWPK,DQMMPGGTAISVTPYR,HLDR PVFLR,TPIIIIPAATSLITMLNAK	RAATENIPVVR,IEDEECVR,TPIIIIPA ATSLITMLNAK
IPI00228728.5	Q14B71	Cdca2	Isoform 1 of Cell division cycle-associated protein 2	ECVLNNSSENDVFR,KEDLLEYQQSGFP VNSSSK	
IPI00318626.1	P09803	Cdh1	Cadherin-1		GLDARPEVTR,VFYSITGQGADKP PVGVFIIER
IPI00468999.4	Q99L43	Cds2	Phosphatidate cytidyltransferase 2		AETAPLPTSVDDTPEVLNR,LQEY NIPGVIQSAIGWK
IPI00227808.3	Q4VAA2	Cdv3	Isoform 1 of Protein CDV3	TPQGPPEIYSDTQFPSLQSTAK,LQLD NQYAVLENQK,KTPQGPPEIYSDTQFP SLQSTAK	TPQGPPEIYSDTQFPSLQSTAK,AA NAASGAGGSSAAAGSR,PGDGGSL GSGAR
IPI00132346.2	Q78Y72	Ceacam14	CEA-related cell adhesion molecule 14	NDTGLYTLRTISVDLKEWAIIEVQVNS K,SVPIAVEGENVLLFVHNLPK	
IPI00356898.4	Q569L8	Cenpj	Centromere protein J	DSVLTSK	
IPI00225036.3	Q3TJM4	Cenpt	Centromere protein T	QLVNAGALLQDLEDNSLASALPGDSH R,LRLSVFQQEVDQGLPLSQEPR	
IPI00466518.2	Q8BT07	Cep55	Isoform 1 of Centrosomal protein of 55 kDa	QLHGFTITEQPFPLQR,SPSAALNDSL VECPKCSVQYPATEHR	
IPI00128741.1	Q9R1K9	Cetn2	Centrin-2	DGDGEVNEQEFLR,LFDDDETGKISFK, MNFSDFLTVMTQK,ELGENLTDEELQE MIDEADR,EAFDLFDADGTGTIDIK	
IPI00114065.1	P04186	Cfb	Complement factor B	DMEDLENVYQMIDETK,DFHINLFQVL PWLK	

IPI00890117.1	P18760	Cfl1	Cofilin-1	LGGSAVISLEGK,LGGSAVISLEGKPL, KLTGIK,VFNDMK,MIYASSK,EILVGDV GQTVDDPYTTFFVK,KSSTPEEVKK,YAL YDATYETK,KEDLVFIFWAPENAPLK,NI ILEEGKEILVGDVGGQTVDDPYTTFFVK,K SSTPEEVK,NIILEEGK	AVLFCLSEDKK,LGGSAVISLEGK PL,KAVLFCLSEDKK,HELQANCY EEVKDR,HELQANCYEEVK,AVLF CLSEDK,EILVGDVGGQTVDDPYTT FVK,EDLVFIFWAPENAPLK,YALY DATYETK,NIILEEGKEILVGDVGGQ TVDDPYTTFFVK,KEDLVFIFWAPE NAPLK,NIILEEGK	LGGSAVISLEGK,LGGSAVISLEGKP L,VFNDMK,HELQANCYEEVK,EILV GDVGGQTVDDPYTTFFVK,YALYDATY ETK,KEDLVFIFWAPENAPLK
IPI00266188.6	P45591	Cfl2	Cofilin-2	VFNDMK,QILVGDIGDTVEDPYTSFVK, MIYASSK,KEDLVFIFWAPESAPLK,YAL YDATYETK		
IPI00133562.1	Q9CRB9	Chchd3	Coiled-coil-helix-coiled-coil-helix domain- containing protein 3, mitochondrial		VAEELALEQAK,LSENVIDR	
IPI00107999.1	P40201	Chd1	Chromodomain-helicase-DNA-binding protein 1		LVIAHEDELIPLHK,VLIFSQMVR	
IPI00857771.1		Chd4	MKIAA4075 protein	VGGNIEVLGFNAR,FGTEELFKDEATD GGGDNK,AAYLNMSEDPSPSMALNT R,WSMPELAEVEENKMSQPGSPSPK ,YAILNEPFK,SAVDLTPIVVEDK,GGGN QVSLLNVMMDLK,ENEFSFEDNAIR	FAEVECLAESHQHLSK,VGGNIEV LGFNAR,NFEALNAR,GPFLVSAP LSTIINWER,NDKDKPLPPLLAR,H HYEQQQEDLAR,KLERPPETPTV DPTVK,LLEQALVIEEQLR,GGGN QVSLLNVMMDLK,FNAPGAQQFC FLLSTR,TVQTAVFLYSLYK,FHNL EGFLEEFADIAK,LLLTGTPLQNNL EELFHLLNFLTPER,APEPPPQQV AQQQ,YAILNEPFK,RHDYWLLAGI INHGYAR,GTTEVEKVEEK,VAQY VVR,IEENSLKEEESTEKEKEVK	LLLTGTPLQNNLEELFHLLNFLTPER ,GSSGASVAAAAAAVAVVESMVTA TEVAPPPPPVEVPIR,GPFLVSAPLS TIINWER,HHYEQQQEDLAR
IPI00345676.5	A2AJK6	Chd7	Isoform 1 of Chromodomain-helicase- DNA-binding protein 7		VLIFSQMVR,SLLIGVFK	
IPI00119020.1	Q9DB34	Chmp2a	Charged multivesicular body protein 2a	KAEATASALADADADLEER,AEATASA LADADADLEER		
IPI00134017.1	Q9D1P4	Chordc1	Cysteine and histidine-rich domain- containing protein 1		HNSEKPPPEPVKPEVK,LSSGSEE DKKEEDSDEIK	
IPI00187301.1	Q8WTY4	Ciapi1	Anamorsin		KPNFEVGSSSGLK,ILRPGGCLFL K,ESSFDVILSGVVPGSTLSHSAE VLAEMAR	RPDPASLK,LQELTGSEGVFMENV TQLLQSSHK,ILRPGGCLFLK
IPI00128346.1	Q91WS0	Cisd1	CDGSH iron sulfur domain-containing protein 1		AMVNLQIQK,VVHAFDMEDLGDK	
IPI00470092.2	Q3V1H1	Ckap2	Cytoskeleton-associated protein 2			IEPITSPIENIISIYEK,RPPHSVVTQA EPK
IPI00223047.2	Q8BMK4	Ckap4	Cytoskeleton-associated protein 4		VGAHGSEEGAVFK,KPPAAPQQP QPPAPHPQHPQNAHR,IETNE NNLESAK,VQSLQATFGTFESLLR	VGAHGSEEGAVFK,KPPAAPQQP PPAPHPQHPQNAHR

IPI00337930.4	A2AGT5	Ckap5	Isoform 1 of Cytoskeleton-associated protein 5		TTGEVSGVVSK,EALEAVEVLVK,GLEAALVYVENAHVAGK,NAALNTIVTVYNVHGDQVFK,EGLDEVAGIINEAK,IIVACIETLR,LFAIEIYR	ILVQQTLNILQQLAVAMGANIR,QDDRPPLTSLLSKPAIPPVASSTDMLHSK
IPI00136703.1	Q04447	Ckb	Creatine kinase B-type	FPAEDEFDLSSHNNHMAK,GTGGVDTAAVGGVFDVSNADR,VISMQKGGNMKEVFTR,LGFSEVELVQMVDGVK,DLFDPIIEER,LEQQQAIDDLMPAQK	HGGYQPSDEHK,GTGGVDTAAVGGVFDVSNADR,FCTGLTQIETLFK,LAVEALSSLDGDLGSR,NYEFMWNPHLGYILTCPSNLGTGLR,LGFSEVELVQMVDGVK,VLTPELYAELR,DLFDPIIEER,SMTEAEQQQLIDDHFLFDKPVSPLLLASGMAR,TFLVWINEEDHLR,LEQQQAIDDLMPAQK	TDLNPDNLQGGDDLDPNYVLSSR,GTGGVDTAAVGGVFDVSNADR,LGYILTCPSNLGTGLR,FCTGLTQIETLFK,PVSPLLLASGMAR,GIWHNDNK,GFCLPPHCSR,LAVEALSSLDGDLGSR,VLTPELYAELR,DLFDPIIEER
IPI00415523.1	Q9ET38	Cldn19	Isoform 1 of Claudin-19			QSSYAGDAIITAVGLYEGLWMSCASQSTGQVQCK,ALMVAVLLGFVAMVLSVVGMK
IPI00130344.3	Q9Z1Q5	Clic1	Chloride intracellular channel protein 1			FLDGNELTLADCNLLPK,LAALNPESNTSGLDIFAK,LHIVQVVK
IPI00135977.3	Q9QYB1	Clic4	Chloride intracellular channel protein 4		NSRPEANEALER,GVVFSVTTVDLK	
IPI00119808.1	Q9JHS4	Clpx	ATP-dependent Clp protease ATP-binding subunit clpX-like, mitochondrial	TLVQILTEPR,AQQGIVFLDEVDK		

IPI00648173.1	Q5SXR6	Cltc	Clathrin, heavy polypeptide	<p>NLQNLILTAIK,HDVVFLITK,LEKH ELIEFR,GQCDELEINVCNENSLFK ,FQEHLQLQNLGINPANIGFSTLT MESDK,NNLAGAEELFAR,YIQAA CK,GYFEELITMLEAALGLER,LDN YDAPDIANIAISNELFEEAFAIFR,G QFSTDELVAEVEK,LPVVIGLLD VDCSESVIK,SVNESLNNLFITEED YQALR,TLQIFNIEMK,VANVELYY K,ISGETIFVTAPHEATAGIIGVNR, AHMGMFTELAILYSK,KVSQPIEG HAASFAQFK,LECSEELGDLVK,A YEFAER,ECFGACLFICYDLLRPD VVLETAWR,EDKLECSEELGDLV K,LAELEEFINGPNNNAHIQVVGDR, FNALFAQGNYSEAAK,DTLAEEL TQDPEEVSVTVK,FQSVPAQPGQTS LQWFLQEEK,AHIAQLCEK,RKDP PLLQYFGILLDQGQLNK,LDASESLR ELWGSVLLSNPYR,LLLPWLEAR, IHEGCEEPATHNALAK,AFMTADLP ,IVLNSVFSEHR,YESLELCRPVL NELIELLEK,HSSLAGCQIINYR,NNR QQGR,IAAYLFK,YHEQLSTQSLIE PSEGPLQTR,AHIAQLCEK,VIQCFA LFESFK,GQVLSVCVEEENIIPYIT ETGQVQK,TSIDAYDNFDNISLAQR, NVLQNPDLALR,KFDVNTSAVQVL ELGDLVK,LASTLVHLGEYQAAVDG IEHIGNLDR,EKVGQAQVVIDMN AR,LLYNNVSNFGR,LLLPWLEAR,N DPSNPIR,RPISADSAIMNPASK,K NLAGAEELFAR,LHIEVGTPTGNQ DPFLWGSVLLSNPYR,RPLIDQV PFPK,LDNYDAPDIANIAISNELFEEA VQTALSETQDPEEVSVTVK,ESYV FAIFR,PVLQQGR ETELIFALAK,VSQPIEGHAASFAQ FK,AFMTADLPNELIELLEK,EVCF ACVDGK,NLILVVR,VIQFAETGQ VQK,TSIDAYDNFDNISLAQR,LTD QLPLIIVCDR,LASTLVHLGEYQAA VDGAR,LLYNNVSNFGR,VGEQA QVVIDMNDPSNPIR,HELIEFR,LH IIEVGTPTGNQPFPK,DFVHDLV LYLVR,VDKLDASESLR,IYIDSNN NPER,GQFSTDELVAEVEKR,KGQ VLSVCVEEENIIPYITNVLQNPDLA LR,ALEHFTDLYDIK,FQSVPAQPG QTSPLLQYFGILLDQGQLNK,IHE GCFEPATHNALAK,KVGYTPDWIF</p>	
IPI00330767.1	P53996	Cnbp	Isoform 1 of Cellular nucleic acid-binding protein		GFQFVSSSLPDCYR,CGETGHVAIN CSK,TSEVNCYR
IPI00315879.1	Q9D1A2	Cndp2	Cytosolic non-specific dipeptidase	YPSLSLHGIEGAFSGSGAK,MLAAYLY EVSQK,LVPDPIPEVSEQVSSYLSK	MMEVAADVQR,LVPDPIPEVSE QVSSYLSK,DVDYVCISDNWLGKN KPCITYGLR,LPDGSEIPLPILLGK
IPI00116649.1	Q08093	Cnn2	Calponin-2	GPSYGLSAEVK,SWIEGLTGLSIGPDF QK,SMQNWHLLENLSNFIK	
IPI00119111.2	Q9DAW9	Cnn3	Calponin-3	GPSYGLSAEVK,CASQAGMTAYGTRR, MQTDPKPFQTTISLQMGTKN,LTLQPV DGIILCELINK,GFHTTIDIGVK DNSTISLQMGTKN	GPSYGLSAEVK,LTLQPVNDSTISLQ MGTKN,VNESLNPWPLENIGNFIK, GFHTTIDIGVK

IPI00880243.1	Q6ZQ08-4	Cnot1	Isoform 4 of CCR4-NOT transcription complex subunit 1		SLLLEAYVK,YLFLNAIANQLR,ILD VAQDLK,AVQELVHPVVDR,SLLE VVVLSR,DAIAALGLLQK,LIALLVK, NKPIHTDLDVK,YNVEAVELLIR
IPI00221683.3	Q8BH15	Cnot10	Isoform 1 of CCR4-NOT transcription complex subunit 10	QDINK	FIPAPPSSPLR,KFSGRPMCTLLT NK
IPI00410930.3	Q8BT14-3	Cnot4	Isoform 3 of CCR4-NOT transcription complex subunit 4	KPYPEDPAVYKPLSQEELQR,SPFEGA VTESQSLFSDNFR,QPEDDLGDFPFDV TR,ELSVQDQPSLSPTSLQNASSHTTT AK	
IPI00319602.3	P16330	Cnp	Isoform CNPII of 2',3'-cyclic-nucleotide 3'-phosphodiesterase		PSASEGLPPGSR,RPPGVLHCTTK
IPI00135512.1	Q9QXT0	Cnpy2	Protein canopy homolog 2	INPDGSQSVVEVPYAR,ALVDELEWEI AR	
IPI00875961.1	Q8BQ47	Cnpy4	Protein canopy homolog 4	LLSMELQEALSRTGR,LLSMELQEALS R,EVLELQQLVLDTGKR,SREVLELQGV LDTGKR,EVLELQQLVLDTGK,ISDGQEE ADDEEEEEEEITK	
IPI00551146.5	Q8CB62	Cntrob	Isoform 1 of Centrobilin	VLELQQQLAVAVAADHK,LQALQEEG QAQLER,DGLNLDVSELLR	
IPI00330247.4	Q5NBX1	Cobl	Isoform 1 of Protein cordon-bleu	VSSLASEELQSFR,DGKDESSNSAPPP WSHHGQALGGSYGLK,LPHDATLGSQ QSLVYMK,IDELGNLVSPHMNGSR,TIS PPSAVVEDTTPPIGK,APAPPPPPQPP PSPVVPNR,DVSLHSALMEAIHSSGGR ,VPASNPTDITFLKPQR,SLTLGPSSL GNISGVSMK,RAPAPPPPPQPPSPV VPNR	
IPI00762331.2	Q3UMF0	Cobl1	Isoform 1 of Cordon-bleu protein-like 1	ADETVQTS DGSISAQHSSASLQDSVN ASR,MDRSVPDPLPRAPR	
IPI00129529.2	Q9Z160	Cog1	Conserved oligomeric Golgi complex subunit 1		EGAFPMTQNR,TCMAQVIAAYEQLT EENQIKK,LPTQPSWYVQSFLFSLC QEVNR
IPI00626353.5	Q9QZR9	Col4a4	Isoform 1 of Collagen alpha-4(IV) chain		PGLPGLPGAPGPEGPPGSDVIYCR PGCPGPMGEK,GKPGMSGIPGPPG FR,GPPGPTLLVQPPDL SIYK,GDTG EAGCPGAPGPPGPTGDPGPK,GPV GPPGCR
IPI00229834.3	Q8CIE6	Copa	Coatomer subunit alpha	TLDLPIYVTR,DADSITLFDVQK,GITG VDLFGTTDAVVK,LVGQSIAYLQK,DM SGHYQNALYLGDVSER,CPLSGACYS PEFK,ASNLENSTYDLYTIPK,VLTDPT EFK	YAVTTGDHGIIR,LVGQSIAYLQK, LSFLYLITGNLEK,SILLSVPLLVD LLQPPAPIMPLDTNWPLLTVSK,LVG QSIAYLQK,GLSFHPK,HAIVICNR,G HYNNVSCAVFHPR IEIALEAAK

IPI00120503.1	Q9JIF7	Copb1	Coatomer subunit beta	AAAQCYIDLIK,NFEHLIPDAPELI HDFLVNEK,TLQLALDLVSSR,NAV LAIYTIYR,KEEDRPPLR,NVEELVI VLK,KPITDDDVDR,VLQDLVMDIL R,VLSTPDLEVR
IPI00115097.1	O55029	Copb2	Coatomer subunit beta'	VLAAQETHEGVTEDGIEDAFEVL GEIQEIVK,EAFVVEEWVK,HSEV QQANLK,AAESLADPTEYENLFPGLPEAAFLAR,HSEVQQANLK,AAESL LK,LDACLELLIR,LNYYVGGIEVTLADPTEYENLFPGLK AHLDR,FELALQLGELK
IPI00223437.4	Q8BP96	Copg	Putative uncharacterized protein	VVVVQAISALCQK,ELAPAVSVLQ LFCSSPK,DSPLDFDIESCLR,TLE EAVGNIVK,AIVDCIISIIIEENSEKAGAVSALAK,SAVLQEAR,ALCQITD STMLQAVR,ELAPAVSVLQLFCSS PK,VPSVSSSALVSSLHLLK,TLEEA VGNIVK
IPI00316359.1	Q9QXK3	Copg2	Isoform 1 of Coatomer subunit gamma-2	ELAPAVSVLQLFCSSPK,FGAQNE SLLPSILVLLQR
IPI00131873.1	O88545	Cops6	COP9 signalosome complex subunit 6	PMQVIGALIGK,IGVDHVAR
IPI00124820.2	Q9WUM4	Coro1c	Coronin-1C	KPTDTASVQNEAK,HVFGQAVK,A IFLADGNVFTTGFSR,VGIVAWHP TARKPTDTASVQNEAK,LEQQLAK,HVF GQAVK,VGIVAWHPTAR,KSDLFQD DLYPDTAGPEAALEAEWFEGK,H GYIPGK
IPI00132575.3	Q9CQI6	Cot1	Coactosin-like protein	DDGSAVIWVTFR,FALITWIGEDV SGLQR
IPI00131176.1	P00405	COX2	Cytochrome c oxidase subunit 2	ILYMMDEINNPVLTVK,LLEVDNR, MLISSEDLVLSWAVPSLGLK,VVL PMELPIR
IPI00117978.1	P19783	Cox4i1	Cytochrome c oxidase subunit 4 isoform 1, mitochondrial	SEDYAFPTYADR,DYPLPDVAHVT MLSASQK,ANPIQGFSK,ADWSS LSR,IQFNESFAEMNR
IPI00120719.4	P12787	Cox5a	Cytochrome c oxidase subunit 5A, mitochondrial	LNDFASAVR,EIYPYVIQELRPTLN ELGISTPEELGLDKV,RLNDFASA VR,GMNTLVGYDLVPEPK,EIYPY VIQELRPTLNELGISTPEELGLDK,I IDAALRLNDFASAVR,GMNTLVGYDLVPEPK ,KGMNTLVGYDLVPEPK
IPI00121443.1	Q9DCW5	Cox6a1	Cytochrome c oxidase polypeptide VIa	SRHEEHERPPFVAYPHLR,HEEH ERPPFVAYPHLR,ALTYFVALPGV GVSMNLVFLK,TKPFPWGDGNHT LFHNPVHNPVLPPTGYEDE
IPI00225390.5	P56391	Cox6b1	Cytochrome c oxidase subunit 6B1	NCWQNYLDFHR,IAEGTFPGK,G GDVSVCEWYR,IAEGTFPGKI,SL CPVSWVSAWDDR,FPNQNTK
IPI00114377.1	P48771	Cox7a2	Cytochrome c oxidase polypeptide 7A2, mitochondrial	GGASDALLYR,LFQEDNGMPVHL K
IPI00605187.4		Cp	ceruloplasmin isoform a	DIFTGLIGPMK,MFTTAPDQVDKEDD FQESNK

IPI00421085.1	Q6NVF9	Cpsf6	Cleavage and polyadenylation specificity factor subunit 6		VLISLQDCLHGIESK,AVSDASAGD YGSAIETLVTAISLIK,LMDLLPK
IPI00130708.1	O35427	Crcp	DNA-directed RNA polymerase III subunit RPC9	NQSPAIVQEFLTAMK,HSAGQQNLNAI TYETLK	
IPI00119924.1	Q01147	Creb1	Isoform 1 of Cyclic AMP-responsive element-binding protein 1	ILNDLSSDAPGVPR,TAPTSTIAPGVVM ASSPALPTQPAEEAAR	
IPI00111286.1	Q9CYA0	Creld2	Cysteine-rich with EGF-like domain protein 2	LLEIMEGLCDSSDFECNQLLEQQEEQ LEAWWQTLK,GPLCIDCTDGFSLQR	
IPI00121319.1	Q9DCT8	Crip2	Cysteine-rich protein 2	GVNIGGAGSYIYEKQTEAPQVTGPIE VPVVR,GVNTGAVGSYIYDKDPEGTVQ P	
IPI00307991.1	Q64010	Crk	Isoform Crk-II of Proto-oncogene C-crk	ALFDFNGNDEEDLPFK,IGDQEFDSL ALLEFYK,HGVFLVRDSSTSPGDYVLS VSENSR,IHYLDTTTLIEPVAR,TALALE VGELVK,ALFDFNGNDEEDLPFK,DS STSPGDYVLSVSENSR	
IPI00113362.2	P47941	Crkl	Crk-like protein	KGELLVIIKPEEQWWSAR,VGMIPVP YVEK,YSPSPVGSVSAPNLPTAEENLE YVR,IGDQEFHLPALLEFYK,VIIK,TA LALVGDIVK,GELLVIIKPEEQWWSA R,IHYLDTTTLIEPAPR	
IPI00338211.4	Q9Z2L7	Crif3	Isoform 1 of Cytokine receptor-like factor 3		ASHIQLDSLPEVPLLVDVPCLSAQL DDSILNIVK,LVTLLQEVDTIEQETIKP LDDCQK
IPI00132376.3	P63154	Crnk1	Crooked neck-like protein 1	RTVISNWIK,EAAEQDPDKDIDSESSS F,APAEVQITAEQLLR,LMLLESWR,LD MPEVLWK,FAELETILGDIER,AIYELAIS QPR,ANPHNYDAWFDYLR	
IPI00113141.1	Q9CZU6	Cs	Citrate synthase, mitochondrial		TVVGQITVDMMYGGMR,LPCVAA AALPSHVVTMLDNFPTNLHPMSQL K,ALGVLAQLIWSR,MALLTAATR, ALGFPLERPK SAAITALNSENFR,NSSCLVLAAR ,DVLSNLIPIK
IPI00330591.1	Q9JKB3	Csda	Isoform 1 of DNA-binding protein A	GAEAANVTGPDGVPVEGSR,PAPAIG EAEDKENQQAANGPNQPSAR,EDVVF HQTAIK,DGVPEGTQLQHR,SVGDE TVEFDVVEGK,NDTKEDVFVHQTAIK	GAEAANVTGPDGVPVEGSR,SRP LNAVSQDGK,SVGDETVFEFDV EGEK EDVVFVHQTAIK,PAPAIGEAEDK,RP QYRPPYR,SRPLNAVSQDGK,VFP PNR
IPI00338717.3	Q80TP8	Csde1	MKIAA0885 protein (Fragment)	VGDDVEFEVSSDRR,DQFGFINYEVG DSK,VGDDVEFEVSSDR,ATNIEVLSNT FQFTNEAR,GEVYFPGIVGMANK	QRPGQIATCVR,GDLETLQPGDDV EFTIK,NITLDDASAPR,IKPEIHPEER

IPI00112414.1	Q9ERK4	Cse1l	Exportin-2		LVLDAFALPLTNLFK,ATIELCSTH ANDASALR,FVTAIWNLVTTGR,V CASVTFK,NDIPSSYMLFPHLLQ PVLWER,SFSLQEAIPYIPTLITQ LTQK,FFEGPVTGIFSGYVNSMLQ EYAK,HGITQANELVNLTEFFVNI LPDLK,ILFSSLILISK,GSNNTLFT AAEIAPFVEILLTNLFK,LLQTDDEE EAGLLELLK,IHLAQLSHK,IIPEIQ K,FLESVEGNQNYPLLLLTLEK,D AAIYLVTSLASK	LVLDAFALPLTNLFK,SNNVNEFPVL K,IPGLLGVFQK,LSTACPGR,MELSD ANLQTLTEYLK,LLQAFLER,VCAS VTFK,SFSLQEAIPYIPTLITQ,LTQK, FFEGPVTGIFSGYVNSMLQEQYAK,Q LSDAISIIGR,YGALALQEIFDGIQPK, GSNNTLFTAEEIAPFVEILLTNLFK,I HLAQLSHK,IIPEIQK,FQSGDFHVIN GVLK,GSSTIATAAADK,FLESVEGN QNYPLLLLTLEK,TAHSLFK
IPI00330729.4	Q8BK63	Csnk1a1	Isoform 1 of Casein kinase I isoform alpha	YASINAHLGIEQSR,LFLIDFGLAK		
IPI00120162.1	Q60737	Csnk2a1	Casein kinase II subunit alpha	QLYQTLTDYDIR,FVHSENQHLVSPEA LDFLDK,VLGTEDLYDYIDK,GGPNIITL ADIVK,YSEVFRAINITNNEK	DVKPHNVMIDHEHR,DVKPHNVM IDHEHRK	VLGTEDLYDYIDK,GGPNIITLADIVK
IPI00118795.1	O54833	Csnk2a2	Casein kinase II subunit alpha'	VLGTDELYGYLK,YSEVFRAINITNNER, EPFFHGQDNYDQLVR,LIDWGLAEFYH PAQEYNVR,QLYQILTDFDIR,YHIDLDP HFNDILGQHSR,HLVSPEALDLLDKLLR ,HLVSPEALDLLDK		
IPI00357493.6	B2RX88	Cspp1	centrosome and spindle pole associated protein 1	GYVDGDDVPEEPNTQISAAENK,RGY VDGDDVPEEPNTQISAAENK,KPTNTD DEGSLVDPDDIMR,GNTFGEPLSELQI K,EEVGISGAEHPSLSGSAGVPER,NP MDIFDMAR,AVVSDQNLATSNAENLE DSANK,GLDATTQNIHDFNELR		
IPI00123891.3	P97315	Csrp1	Cysteine and glycine-rich protein 1			GFGFGQGAGALVHSE,HEEAPGHR PTTNPASK
IPI00125931.1	Q62426	Cstb	Cystatin-B			QIVAGTNLFK,VFQPLPHENKPLTLS SYQTNK
IPI00116747.1	Q99LC2	Cstf1	Cleavage stimulation factor 50 kDa subunit	SISFHPSGDFILVGTQHPTLR,DGQLIA TGSADASIK,LGMENDDTAVQYAIGR,S AMPIEVMMNETAQQNMENHPVIR		
IPI00467932.4	Q8C7E9	Cstf2t	Cleavage stimulation factor 64 kDa subunit, tau variant	NMLLQNPQLAYALLQAQVVMRIMDPEI ALK,AALIMQVLQLTADQIAMLPPEQR, GPMTGGIQGPGPINMGAGGPQGP,RP IFSEVGSVVSFR,SLGPAAPIIDSPYGD PIDPEDAPESITR		
IPI00116929.1	Q99LI7	Cstf3	Cleavage stimulation factor 77 kDa subunit		LAAIIPDPVVAPSIVPVLK,FLAFES NIGDLASILK	LAAIIPDPVVAPSIVPVLK,HLAPPGL HPVPGGVFPVPPAAVLMK

IPI00856974.1	P56546-2	Ctbp2	Isoform 2 of C-terminal-binding protein 2	GAALDVHESEPFSAQGGLK,GETLGLIGFGR	GAALDVHESEPFSAQGGLK,PLVALLDGR,AAGELGIAVCNIPSAAV EETADSTVCHILNLYR,TGQAVAVR,VQSVEQIR,DLATVAFCDQST QEIHEK	GAALDVHESEPFSAQGGLK,PLVALLDGR,TGQAVAVR
IPI00112963.1	P26231	Ctnna1	Catenin alpha-1		AVMDHVSDSFLETNPVLLVLEAAK,VLTDAVDDITSIDDFLAVSENHILEDV,NK,AEVQNLGGELVVGVDAMSLIQAAK,AHVLAASVEQATEN FLEK,EELVVAVEDVR,LLILADMA DVYK,LAQENMDLFKEQWEKQVR,ESQFLKEELVVAVEDVR,ALLSAVTR,TIADHCPDSACK,MSASQLEALCPQVINAALAAKPQSK,LLEPLVTQVTTLVNTNSK,VKAEVQNLG GELVVGVDAMS LIQAAK,IAEQ VASFQEEK	SKLDAEVSK,NVPILYASQACLQHP DVAAYK,IVAECNAVR,ALLSAVTR,V LTAVDVDDITSIDDFLAVSENHILEDV NK,MSASQLEALCPQVINAALALAA KPQSK,AEVQNLGGELVVGVDAMS LIQAAK,LLEPLVTQVTTLVNTNSK,NLMNAVVTQVK
IPI00119870.2	Q61301	Ctnna2	Isoform 1 of Catenin alpha-2			IVAECNAVR,ALLSAVTR,LLEPLVTQ VTTLVNTNSK
IPI00125899.1	Q02248	Ctnnb1	Catenin beta-1		EGLLAIFK,LVQLLVR,GLNTIPLFV QLLYSPIENIQR,VAAGVLCELAQ DKEAAEIEAEGATAPTELLHSR, LHYGLPVVVK,VAAGVLCELAQD K,LSELVTSLLFR,LILASGGPQAL VNIMR,NLALCPANHAPLR,MLGS PVDSVLFYAITTLHNLLHQEGAK, LLNDEDQVVVVK	AAVMVHQLSKKEASR,LHYGLPVV V K,VAAGVLCELAQDK,NKMMVCQV G GIEALVRTVLR,FLAITDCLQILAYG NQESKLILASGGPQALVNIMR
IPI00752108.1		Ctnnd1	108 kDa protein	QPELPEVIAMLGFR,VSPQDANSLMAN GTLTR,TVQPVPMGPDGLPVDASAVS NNYIQTLLGR,HYEDGYPGGSDNYGSL SR,LNGPQDHNHLLYSTIPR,DMDLDEV ITGTLWNLSSHDSIK,AAALVLQTIWGY K,GIPILVGLLDHPK,ARDMDLDEVITGT LWNLSSHDSIK	ALSAIAELLTSEHER,DMDLDEVIT GTLWNLSSHDSIK,AAALVLQTIW GYK,NLPGGQQNSSFSEDTV VSILNTINEVIAENLEAAK,TPAILE ASAGAIQNLCAGR	HAIPNLVK,TPAILEASAGAIQNLCAG R,NLSYQVHR
IPI00111959.2	P70698	Ctps	CTP synthase 1	YILVTGGVISGIGK,VPLLLLEEQQVVDY FLR	YILVTGGVISGIGK,VPLLLLEEQQV VDYFLR,ALEHSALAINHK	GLGLSPDLVVCRA,LCSAHGVLVPPG FGVRA,ALEHSALAINHK,SCGLHVTSI K,GVIASSVGTILK
IPI00624988.4	Q3UGC2	Ctnn	Cortactin, isoform CRA_e	YGLFPANYVELR,NASTFEEVVQVPSA YQK		
IPI00453812.3	Q99LJ0	Ctnbp2nl	CTTNBP2 N-terminal-like protein	FTNQGGPIKPVSPNSSPFGTDYR,LSKP ELLTLFSILEGELEAR		
IPI00124047.1	Q9WTX6	Cul1	Cullin-1		QVTNAVLR,LLIQAIVR	
IPI00467383.2	Q9JLV5	Cul3	Cullin-3	MQHNVLVAEVTQQLKAR,GLTEQEVE TILDK		

IPI00224689.3	A2A432	Cul4b	cullin 4B		GGVQVLLQQWIEYIK,ETVEEQAS TTER,TIDGILLIER,RPNKPAELIA K,LKEAVEAIQNSTSIK	HECGAFTSK,RPNKPAELIAK,AQI HQFR,YNLEELYQAVENLCSHK,QG PPRPPYPPLLPPVFPPTPPPQVR
IPI00230113.5	P56395	Cyb5	Cytochrome b5		TYIIGELHPDDR,FLEEHPGGEEVL R	
IPI00110885.2	B0QZG1	Cyb5r3	Putative uncharacterized protein		DILLRPELEELR,IGDTIEFR	FALPSPQHILGLPIGQHIYLSTR,STP AITLENPDIK
IPI00116850.3	Q99LF4	D10Wsu52e	UPF0027 protein C2orf28 homolog	EQLAQAMFDHIPVGVGSK,GLGHQVA TDALVAMEK,VFNTTPDDLHLHVIYDV SHNIAK,NYNDELQFLDK,GLPQLGTLG AGNHYAEIQVVDEIFNEYAAK,NLDFQ DVLDK,DLEEALEMGVDWSLR,GGGV GGFLPAMK,QIGNVAALPGIVHR,GMA AAGNYAWVNR		GLPQLGTLGAGNHYAEIQVVDEIFN EYAAK,LRPIAVIK,QIGNVAALPGIVH R
IPI00222675.3	Q8BKS9	D19Bwg1357e	D19Bwg1357e protein	NMLTEELYGNTFQLYK,QIIIEISSLPS IVNDK,TYVEK,QAFQELQGDLVELSK, VFLDFFTYAPPK,HSEASAIVEYAYNDK ,DPAHTVPELIELLQK	EAVVYLAHTHDGAR,VFLDFFTYA PPKPR,SELIEAIR	
IPI00109313.1	Q9CWN7	D1Bwg0212e	Uncharacterized protein C2orf29 homolog		LGSVLVMLLQQPDLLPSAAQR,LP DLVENNPLVAIEMLLK	
IPI00468516.3	Q6PGL7	D6Wsu116e	Isoform 1 of Protein FAM21	STGVFQDEELLFSHK,THDIFEDDIFAT EAIKPFPK,DNDPDVDLDFAGTK,VSPEV GSADVASIAQK,SLAFDLDSEGSSTED LFQSVKPR,VASIFDDPLNAFGSQ,LAA QESSEAEVDTVDR,SMFDDDTDDIFSS GLQAK,SSVPSGGSLFGDDEDDDLFS SAK,SRPQTGNEADLFDSGDIFPK		
IPI00308852.4	P98078	Dab2	Isoform p96 of Disabled homolog 2	VGIPQEHVDHDDFDANQLLNK,DLFQV IYNVK,DIPSDAFTGLDPLGDK,LIGIDD VPDAR,DILLVDLNSEIDTNQNSLR,KG ETPPSGTSSAFSSYFNK,TGKPEAQQ GPWPYPSSQTQQAVR		
IPI00109082.3	P61804	Dad1	Dolichyl-diphosphooligosaccharide-- protein glycosyltransferase subunit DAD1		ADFQGISPER,IQINPQNK,FLEEY LSSTPQR	
IPI00222457.2	Q3U987	Dars	aspartyl-tRNA synthetase isoform 1	YDTDFYVLDK,LPLQLDDAIRPEVEGEE DGR,YGISSMIQSQEKPDR	ESIIDVEGVVR,LPLQLDDAIRPEV EGEEDGR,IGSCTQQDVELHVQK, ATVNQDTR,IYVISLAEPR,VTMLF LGLHNVR,ALHHGIDLEK,FGAPP HAGGGIGLER	VFCIGPVFR,MPSTNASR,IGSCTQQ DVELHVQK,LQSGICHLFR,ALHHGI DLEK
IPI00831695.1	Q3UGB5	Dazap1	DAZ associated protein 1 isoform c	FGVVTEVVMYDAEK,GFGVVKFK		
IPI00222430.5	Q4VWZ5	Dbi	diazepam binding inhibitor isoform 1	TYVEK,TQPTDEEMLIYSHFK,VDELK		QATVGDVNTDR,QATVGDVNTDRP GLLDLK

IPI00378015.1	Q62418	Dbnl	Isoform 1 of Drebrin-like protein	FVLINWTGEGVNDVRK,FVLINWTGEGVNDVR,SPTDWALFTYEGNSNDIR,ES TSFQDVGPQAPVGSVYQK,VAGTGEGGLEELVEELNSGK	
IPI00890234.1	Q3TMF5	Dbt	dihydrolipoamide branched chain transacylase E2		PVILPPEVAIGALGAIK,AASLGLLQF PILNASVDENCQNITYK
IPI00129701.6	Q6PAC3	Dcaf13	WD repeat and SOF domain-containing protein 1	NYDPTLHPFEVPR,MDGGPGYEEEEEP LYTVLGK	
IPI00886236.1	Q8BHC4	Dcakd	Dephospho-CoA kinase domain-containing protein		YVILDIPLLFETK,HVVQPGYPAHR,VLGDLIFNQPDR,MFLVGLTGGAISGK,HTVVVYCDR,IVEAFGTEVLL ENGDIDR,IVEAFGTEVLLLENGDIDRK,VLGDLIFNQPDRR
IPI00331692.1	Q8QZV3	Dci	dodecenoyl-Coenzyme A delta isomerase precursor		ALQLGTLFSPAELK,EAVDGARR
IPI00459280.2	Q9DAR7	Dcps	Scavenger mRNA-decapping enzyme DcpS	TDDPLLQLLQK,IVFENPDPSDGFVLIPDLK,VNEDSGDTHGEDAVVILEK,TPFQVEHVAQLLTGSPELK	
IPI00856500.2		Dctn1	Putative uncharacterized protein		EQVAQLK,RMPGTDAPGIPAALAFG SQVSDTLDCRK,LQEELSQAESTID ELK,GPPPSGIATLVSGIAGGGGAPG QAPGALPGPGLVK
IPI00116112.3	Q99KJ8	Dctn2	Dynactin subunit 2	ASVEDADTQNKVHQLYETIQR,RTGYE SVDYEMLGEGLVK,VSALDLAVLDQVEAR,DNTALLTQVQTTMR,LLHEVQELTTEVEK,LLGPDAAINLADPDGALAK,L LHEVQELTTEVEKIK,WSPVASTLPELVQR,ENLATVEGNFASIDAR,TGYESGD YEMLGEGLVK	LLGPDAAINLADPDGALAK,WSPVASTLPELVQR
IPI00109482.3	Q9CWS0	Ddah1	N(G),N(G)-dimethylarginine dimethylaminohydrolase 1	LQLNIVEMKDENATLDGGDVLFTGR,D YAVSTVPVADSLHLK,GAEILADTFKDY AVSTVPVADSLHLK,DENATLDGGDVL FTGR	
IPI00316740.4	Q3U1J4	Ddb1	DNA damage-binding protein 1		ETDDTLVLSFVGQTR,LVFSNVNLK,LEELHVIDVK,SVLLAYKPMENFEEIAR,LVSQEPK,EATADDLIK VVEELTR,LFMLLEK,DLLFILTAK, LVFSNVNLK,LPSFELLHK,VVEELTR,VTLTGTQPTVLR,YLAIAPPIIK
IPI00410819.3	Q8C4P7	Ddost	Putative uncharacterized protein		LPDVYGVFQFK,TAVIDHHNYDVS DLGQHTLIVADTENLLK,NTLLIAG LQAR,TLVLLDNLNVR
IPI00230034.5	O35215	Ddt	D-dopachrome decarboxylase	IPAGLENR,LCAATATILDKPEDR,FLTEELSLDQDR,STEPCAHLLVS SIGVVGTAEQNR	IPAGLENR,LCAATATILDKPEDR,TH SASFFK,FFPLEAWQIGK

IPI00127172.3	Q91VR5	Ddx1	ATP-dependent RNA helicase DDX1	GHVDVLAPTQELAALEK,DNTRPGAN SPEMWSEAIK	GIDIHGVPYVINVTLPDEK,LQVIV CSATLHSFDVK,APDNYIVK,FLVL DEADGLLSQGYSDFINR,MGLAIS LVATEK,ELAEQTLNNVK,ELLIIGG VAAR,EAQTSFLHLGYLPNQLFR, GEDSVPDVTVHHVVVPVNP,K,DLG LAFEIPAHIK,GHVDVLAPTQELA ALEK,FLICTDVAAR,ALIVEPSR,T GAFSIPVIQIVYETLK	FLPNAPK,TGASVLNK,TGAFSIPVIO IVYETLK,DQLSVLDNGVDIVGTGP
IPI00896604.1	Q80Y44	Ddx10	Probable ATP-dependent RNA helicase DDX10	MEVYNEFVR,APSLPNDEADESPAYV SEK,DDDDDEDGPDADFLTVK,ELAYQT FEVLR,AAVLFATDIAAR		
IPI00653307.1	Q3U741	Ddx17	DEAD box polypeptide 17 isoform 1	GLDVEDVK,MLDMGFEPQIR,APILIAT DVASR,ELAQQVQQVADDYGK	TIIFVETK,TLAYLLPAIVHINHQPYL ER,STCIYGGAPK,GLDVEDVK,GV EICIATPGR,EANQAINPK,GDGP CLVLAPTR,APILIATDVASR,ELAQ QVQQVADDYGK,VLEEANQAINP K	IVDQIRPDR,STCIYGGAPK,LMQLV DHRGGGGGGGGKGGGR,EANQAINPK ,GDGPICLVLAPTR,ELAQQVQQVAD DYGK,APILIATDVASR
IPI00459381.2	Q8K363	Ddx18	ATP-dependent RNA helicase DDX18	LQETSDTLSQPQNGDVPK,LLNGINII VATPGR,YHYELLNYIDLPLVAIHGK,AD DSEVPSLPLGLTGAFEDTSFASLSNLV NENTLK,KADDSEVPSLPLGLTGAFED TSFASLSNLVNENTLK,ILDVGFEEELK, FLLLFTFLK,ILDVGFEEELKQIIK,LTTLA NGEAAPTPPPDSEVK,VPLNQDFSW SK,LLDHMQNTPGFMYK,SVPVDSAEA QSGGMPEETLENGK	LLNGINIIVATPGR,GHALLLRPEE LGFLR,YHYELLNYIDLPLVAIHGK, VSDIQSQLEK,RFLLFTFLK,RGG GGGFGYQK,KADDSEVPSLPLGL TGAFEDTSFASLSNLVNENTLK,IL LNQDFSWK	QIFNVNNLNLPQVALSFGFK,KADD SEVPSLPLGLTGAFEDTSFASLSNL VNENTLK,NYFLHK,VPLNQDFSW SK,KVEDLAR,ELMTHHVHTYGLIMG GSNR
IPI00227749.1	Q8BZY3	Ddx19b	Putative uncharacterized protein	VFVLDEADVMIATQGHQDQSIR,LDTD DLDEIEK		
IPI00652987.3	Q3TVJ3	Ddx21	DEAD (Asp-Glu-Ala-Asp) box polypeptide 21	NGLSQPSEEEADIPKPK,SGIDILVGT GR,APQVLVLAPTR,GAVEALAAALAH SGATSVQDR,IGVPSATEIIK,LGSDGA EESMETLPKPKSEK,WQLTVATEQPELE GPPDGYR,EIITEEPSEEEADMPKPK,N GLSQPSEEEVDIPKPK,GVNFLFPIQAK ,LLDSVPPTAISHFK,NGNFGVLVATNV AAR,TFSFAIPLIEK,SLINSQAGFVTMIL R,LGSDGAEESMETLPK,EGAFSNFPIS EETVK	STYEQVDLIGK,LGVCFDVR,KGP SEDDVDPPK,TIIFCETK,DVESYIH R,LKDGLSQPSEPK,GVNFLFPIQA K,LLDSVPPTAISHFK,DSEDNPQT LLFSATCPHWVFNVAK,TEAVTEI QEK,EGAFSNFPISEETVK,LQGG LQER,STYEQVDLIGK,SGIDILV GTPGR,APQVLVLAPTR,EQLGES IDAK,AAVIGDVIR,EEYQLAQVEQ K,IGVPSATEIIK,KDAQELSQNTCI K,TGVCICFYQNK,AAITVEHLAIK, NGNFGVLVATNVAAR,GLDIPEVD LVVQSCPPK,TFSFAIPLIEK,LSVA CFYGGTPYGGQIER,SLINSQAGF VTMILR,ELANQVSK	SGIDILVGTGPR,STYEQVDLIGK,AP QVLVLAPTR,GAVEALAAALAHISGA TSVDQR,AAVIGDVIR,KGPSEDDVD PPK,IGVPSATEIIK,GVNFLFPIQAK, GLDIPEVDLVVQSCPPK,TFSFAIPLI EK,QDAQSLHGDIPQK,TEAVTEIQE K,ELANQVSK,EGAFSNFPISEETVK, LQGGQLQER

IPI00123878.4	Q8VDW0	Ddx39	Isoform 1 of ATP-dependent RNA helicase DDX39	LTLHGLQQYYVK,ILVATNLFGR,GLAVTFVSDENDAK,LFDLLDVLEFNQVVIFVK,DFLLLKPELLR	CMALAQLLVEQNFPAAIHR,LTLHGLQYYVK,ILVATNLFGR,GLAVTFVSDENDAK,DFLLLKPELLR,FEVNV AELPEEIDISTYIEQSR,ILNDVQD R,VSVFFGGLSIK,GSYVSIHSSGF R,NCPHVVVGTTPGR	CMALAQLLVEQNFPAAIHR,LTLHG LQYYVK,ILVATNLFGR,DFLLLKPEL LR,ELAFQISK,ILNDVQDR,GSYVSIH SSGFR,KNCPHVVVGTTPGR,EIRPV CR,NCPHVVVGTTPGR,AIVDCGFEH PSEVQHECIPQAILGMDVLCQAK
IPI00230035.7	Q62167	Ddx3x	ATP-dependent RNA helicase DDX3X	DLLDLLVEAK,LEQELFSGGNTGINFEK,QYPISLVLAPTR,HVINFDLPSDIEEYVHR,VGNLGLATSFNER,MLDMGFEPQIR,DFLDEYIFLAVGR,SFLDLLNATGK,ELAVQIYEER	VVVVEIDKR,DREEALHQFR,DSLTLVFVETK,HAIIIK,YLVLDEADR,FLAVGR,TAAFLLPILSQIYADGPG EALR,IGLDFCK,VRPCVVYGGAEI GQQIR,LEQELFSGGNTGINFEK,V IR,DFLDEYIFLAVGR,GRG EAK,LEQELFSGGNTGINFEK,QSSG DYDGIGGR,VGNLGLATSFNER, GCHLLVATPGR,SFLDLLNATGK,S YTRPTPVQK,SPILVATAVAAR,EL AVQIYEER	WWWVEIDKR,DREEALHQFR,DS EIQMLAR,QYPISLVLAPTR,DREEAL ,HVINFDLPSDIEEYVHR,DFLDEYI HQFR,HAIIIK,HVINFDLPSDIEEYV HR,FSGGFGAR,TAAFLLPILSQIYAD GPGEALR,VRPCVVYGGAEIGQQIR, IGLDFCK,VGSTSENITQK,DLLDLLV GSTSENITQK,DLLDLLVEAK,GRG EAK,LEQELFSGGNTGINFEK,QSSG ASSSSFSSSR,VGNLGLATSFNER, GCHLLVATPGR,SFLDLLNATGK,S GCHLLVATPGR,SFLDLLNATGK,S PILVATAVAAR
IPI00329839.7	Q810A7	Ddx42	Isoform 1 of ATP-dependent RNA helicase DDX42	KIIDPLPIDHSEIDYPPFEK,GIRDDIEE EDDQEAYFR,GFGGFSAISAGK,VSYLVFDEADR,DIPVLVATDVAAR		VVQGDIGEANEDVTQIVEILHSGPS K,PGSSFAHGFDEQLMHQIRK,IIDP LPPIDHSEIDYPPFEK,RLVEFTSSG SVLLFVTK
IPI00468896.7	Q569Z5	Ddx46	Isoform 1 of Probable ATP-dependent RNA helicase DDX46	GYAYTFITEDQAR,DMAAPGTSSVPAP TAGNAEK,DAGNFDQNKLEEMR,TIA FLLPMFR,ALELSGTAVPPDLEK,YEEE LEINDFPQTAR,ISEYSEAITIR,SLEEG EGPIAVIMTPTR,VTYVVLDEADR,RYE EELEINDFPQTAR,NFYVEVPELAK	LLVATSVAAR,VTYVVLDEADR	
IPI00187240.1	Q9CWX9	Ddx47	Probable ATP-dependent RNA helicase DDX47			LFALVLTPTTR,TGAFALPILNALLETPQR
IPI00648763.1	B1ARB9	Ddx5	DEAD (Asp-Glu-Ala-Asp) box polypeptide 5	NFYQEHPDLAR,PVLNIFYEANFPANVMDVIAR,QNFTEPTAIQAQGWVALSGLDMVGVAQTGSGK	RTAQEVDTYR,TLSYLLPAIVHINHQPFLER,NFYQEHPDLAR,GDGPICLVLAPTR,PVLNIFYEANFPANVMDVIAR	TLSYLLPAIVHINHQPFLER,NFYQEHPDLAR,WNLDELPAK,TAQEVDTYR,GDGPICLVLAPTR,QNFTEPTAIQAQGWVALSGLDMVGVAQTGSGK
IPI00420363.2	Q61656	Ddx5	Probable ATP-dependent RNA helicase DDX5	NFYQEHPDLAR,GLDVEDVK,MLDMGFEPQIR,FVINYDYPNSSEDIYHR,APILIATDVASR,PVLNIFYEANFPANVMDVIAR,TIVFVETK	RTAQEVDTYR,STCIYGGAPK,GLDVEDVK,YLVLDEADR,DYIHINIGALELSANHNILQIVDVCHDVEKDEK,GVEICITPGR,EANQAINPK,LLQLVEDR,KIVDQIRPDR,LIDFLECGK,GDGPICLVLAPTR,APILIATDVASR,PVLNIFYEANFPANVMDVIAR,TIVFVETK,ELAQQVQQVAAEYCR,R,NFYQEHPDLAR,TTYLVLEADR,FVINYDYPNSSEDIYHR	STCIYGGAPK,WNLDELPAK,EANQAINPK,LLQLVEDR,LIDFLECGK,GDGPICLVLAPTR,APILIATDVASR,IVDQIRPDR,ELAQQVQQVAAEYCR,QVSDLISVLR,NFYQEHPDLAR,TAQEVDTYR,FVINYDYPNSSEDIYHR

IPI00117771.1	Q99MJ9	Ddx50	ATP-dependent RNA helicase DDX50	LQAEWHDSWILSVPAK,LPEIEEYYD GNTSSNPR
IPI00336965.1	Q8K301	Ddx52	Probable ATP-dependent RNA helicase DDX52	IHVQGTDLDPDIATFQQLDQEYK,NSA VETVEQELLFVGSETGK,GIDFKGVNL VINYDFPTSSVEYIHR
IPI00109932.1	P54823	Ddx6	Probable ATP-dependent RNA helicase DDX6	GVTQYYAYVTER,FGHLGLAINLIT LQINQSIIFCNSSQR,PSPIQEEESIPIA YDDR,LDDTVHVVIATPGR,ELALQ LSGR,SGAYLIPLLER,SIEEQLGTEIK VSQICIQVSK PIPSNIDK
IPI00227720.3	Q7TNV0	Dek	Protein DEK	LLYNRPGTVSSLK,SICEVLDLER
IPI00230263.4	Q3UFM6	Dgcr14	DiGeorge syndrome critical region protein 14 isoform 1	VLDEEEYIEGLQTVIQR,EYLEAEENGD LER,QKDNLELPSAEHQAISSQAGVE TWK,DNLELPSAEHQAISSQAGVET WK,TPLTQDPASITDNLLQLPAR
IPI00230042.5	P00375	Dhfr	Dihydrofolate reductase	LIEQPELASK,LLPEYPGVLSEVQE EK
IPI00756386.1	A2ATU0	Dhtkd1	Probable 2-oxoglutarate dehydrogenase E1 component DHKTD1, mitochondrial	AAQINPLFPGQALLDTVPEIQALV R,LNLLTGLLQLPELMFR
IPI00128818.2	O35286	Dhx15	Putative pre-mRNA-splicing factor ATP-dependent RNA helicase DHX15	FQIYFDNCPLLIPGR,IRVESLLVT ASK,IMDRFNLPR,VIVMSATLDA VESLLVTAISK,TEMQDNTYPEILR,EVD GK,TCTDIKPEWLVK,FTDILVR,EA DLGPEVGDIAK,TLATDILMGVLK,LQLPV MNDPLLER,FAHIDGDHLLLNKY WEYK,SNLGSVVLQK,THPVEIFYTPE HAFK,ALVTGYFMQVAHLER,YGV PER IILDEAHER,DNQVQLHPSTVLD HKPEWVLYNEFVLTTK,SNLGSVV LQK
IPI00410936.1	Q6PGC1	Dhx29	ATP-dependent RNA helicase Dhx29	ILQIITELIK,VVVVAGETGSGK,FLE KCNIVCTQPR,KIVLATNIAETGITIPD EEEEITINVTSK VVFVIDTGR,VVVVAGETGSGK
IPI00351266.2	Q8VHK9	Dhx36	Probable ATP-dependent RNA helicase DHX36	DCAVLSAILDLIK,ISAVISVAER

IPI00339468.4	Dhx9		Isoform 2 of ATP-dependent RNA helicase A		<p> HLENNSHFGSHR,AAMEALVVEV SK,DVVLAYPEVR,VQSDGQIVFID DWIR,AAECNIVVTQPR,LAHFEPS QR,GISHVIVDEIHER,GMTLVTPL MMIMGCIFYVGDVAVCTISAATCFPE QLLLFASK,ETPFELIEALLK,LQIS PFISEGKR,HLENNSHFGSHR,ISAV HEAAACITALR,DFVNYLVR,TPLH AVAER,ELDALDANDELTPGR,AAE EIALSIK,YTQVGPDHNH,YSPFF CNIVVTQPR,LAHFEPSQR,TTQVPQ VFGKE,ISAVAVAER,ELDALDAND YILDDFIQNDR,GMTLVTPQLLLFA ELTPLGR,FSDHVALLSVFQAWD SK,YQILPLHSQIPR,LGYIHR,AAQS DAR,DINTDFLLVLR,AIEPPPLDA CALSLVR,LGGIGQFLAK,TPLHEIAL VIEAEHTLR,TTQVPQYILDDFIQN SIK,IVLMSATIDTTMFCEYFFNCPIIE DR,RISAVAVAER,YQILPLHSQIP VYGR,QPNIISQLDPVNEHMLNTIR,K R,YIETLNVPGAVLVFLPGWNLIYT LEAGIR MQK,AAQSCALSLVR,LGGIGQF LAK,VILSTNIAETSITINDVVYVIDS CK </p>
IPI00831596.1	Diap1		Diap1 protein		<p> VSLNNNPVSWVQTFGAEGLASLL DILK,VSLNNNPVSWVQTFGAEGL ASLLDILKR </p>
IPI00227881.4	Q8R418	Dicer1	Endoribonuclease Dicer		<p> LEMLGDSFLK,LEFLGDAILYLIT K,RLPAESPAK,TFIAVLLTK,FSAN VPR,LHQYIFSHILR,LNLLTPR </p>
IPI00453851.4	Q8C9B9	Dido1	Isoform 1 of Death-inducer obliterator 1	<p> VSATERPADFTTDASSASLVEQQK,EE DSAETGSVQIGSAEQDR,AFHTLLAEP GRPHDVQSVSETAER,LDMIKPALTA VVPK,ALEEEEEEDDRPYDPEEYNP R,DLYLIPLSAK,TELSQEQQAPDPSQ GAPNTNHNLSR </p>	
IPI00132415.1	Q9D0D4	Dimt1	Probable dimethyladenosine transferase		<p> KVVACELDPR,PTDVVLEVPGTGN MTVKLLEK,LSINTQLLAR </p>
IPI00407764.6	Q9CSH3	Dis3	Exosome complex exonuclease RRP44	<p> IDSAAMNDDITSLR,LAYDDEIPSLR </p>	
IPI00113635.7	Q9ESX5	Dkc1	H/ACA ribonucleoprotein complex subunit 4		<p> HGKPTDNTPATWK,VAQLDTSQWP LLLK,MIEYDPER,GEAICMAIALMTT AVISTCDHGIVAK,NTLVTEAVQAPQ LAAEAVNVIK,ALETLTGALFQRPPLI AAVK </p>
IPI00153660.4	Q8BMF4	Dlat	Dihydrolipoyllysine-residue acetyltransferase component of pyruvate dehydrogenase complex, mitochondrial		<p> DVPLGAPLCIIVEK,VAPAPAGVFT DIPISNIR,VPLPSLSPTMQAGTIAR VAPAPAGVFTDIPISNIR,GLETIASD ,DVPVGSIIICITVEKPQDIEAFK,GL VVSLASK ETIASDVVSLASK </p>
IPI00331564.2	Q3TIE8	Dld	Dihydrolipoyl dehydrogenase		<p> LGADVTAVEFLGHVGGIGIDMEIS IPNIYAIGDVVAGPMLAHK,ALTGGIA K,IDVSVEAASGGK HLFK </p>
IPI00310862.6	Q8K4R9	Dlgap5	Isoform 1 of Disks large-associated protein 5	<p> ETSEMGPLGVFR,ANEILVQQGLESLT DR,CHVEDTPCPGEQDSSDIEHDVKN </p>	

IPI00317722.3	Q9JI44	Dmap1	Isoform 1 of DNA methyltransferase 1-associated protein 1	AGVLGAPAAAAGVPTPASAAPTVESES GLGLDPTK,TPEQVAEEEEYLLQELR	
IPI00828253.1	A2A9Z0	Dmd	dystrophin, muscular dystrophy		EQIMVK,CLDEIEKK,QIESNFAQF R,TLQKWMAEVDVFLK,VNAIARE K EQIMVK,SSAQISQAVTTTQPSLTQT TVMETVTMVTR,GLSPLPSPPEMM PTSPQSPR,EEDFNK,KETLVEDK,R QAEGLSENGAAMAVEPTQIQLSKR
IPI00674554.2		Dmx1	Dmx-like 1	CCPVTGSMPKPYLAWQCHNK,NNDPL DAAIFYLAMK	
IPI00273742.3		Dnahc1			CGMVYLEPSILGLMPFVECWLKR,A LFRPVAMMVPDYAMIAEISLYSFGF NEANVLAK,ELYTEMAVIWLLPEAN R,KYPLMK,DSWISTLK,LEEFEQIQS QTFSQVQMFLK
IPI00849953.1		Dnahc10	dynein, axonemal, heavy chain 10		VLVVDLPILKIIPTEGHRLLK,LQAHCA LLFEVGDLQYASPATVSR,TLSLIGE VIEIWMVLVQR,SAACEALLEEATNT AIAEEK,ELEALGAK,KVLEVIK
IPI00116310.7		Dnahc2	dynein, axonemal, heavy chain 2		CGMVYTDYVDLQWKPYPQSWLEK, AHNLEDFFFK
IPI00172328.3	Q91XQ0	Dnahc8	Isoform 1 of Dynein heavy chain 8, axonemal		KLAKPPHLMR,GTESGEIITLMEDSL MVLGSLLSNR,PIIVVGSLELHTEPM K,THLEDLSLGRPLIEDIR,AATEA LQDFQK,LNLPEIPK
IPI00132208.1	P63037	Dnaja1	DnaJ homolog subfamily A member 1	VHIDK,ITFHGEGDQEPGLEPGDIIIVLD QK,NVVHQLSVTLEDLYNGATR,ETTY YDVLGVKPNATQEELKK,QISQAYEVL ADSK	ITFHGEGDQEPGLEPGDIIIVLDQK ,TIVITSHPGQIVK,ILEVHIDK,HYN GEAYEDDEHHPR
IPI00136251.1	Q9QYJ0	Dnaja2	DnaJ homolog subfamily A member 2	QLAPGMVQQMQSVCSDCNAGEGEVIN EK,LYDILGVPPGASENELK,LYDILGVP PGASENELKK,LSELEDLLPSRPEVNP VIGETEEVELQEFDSTR,VINEK,VSLED LYNGK,ITFTGEADQAPGVEPGDIVLLL QEK,FDVQFPENNWINPDK	IGLVEALCGFQFTFKHLDAR,ITFT GEADQAPGVEPGDIVLLLQEK,IG LVEALCGFQFTFK VIEPGCVR,LSELEDLLPSRPEVNPV IGETEEVELQEFDSTR,IGLVEALCG FQFTFK,FDVQFPENNWINPDK
IPI00136253.3	Q9QYJ3	Dnajb1	DnaJ homolog subfamily B member 1	NPFDTFFGQR,EIAEAYDVLS DPR,EGD QTSNNIPADIVFVLK	
IPI00320241.1	Q99KV1	Dnajb11	DnaJ homolog subfamily B member 11	GSLIITFDVDFPK,FQDLGAAYEVLSDS EK,LALQLHPDRNPDDPQAQEK	
IPI00666885.2	Q8CHD7	Dnajc13	MKIAA0678 protein		LAVASATETLK,ELIVGEIFVR,IVD GDPENIILK
IPI00128371.1	Q91WT4	Dnajc17	DnaJ homolog subfamily C member 17	ELLQMDLYALLGIEEK,AAELFHQLSQA LEVLTDAAAR,YGEVNLNLVLSR	

IPI00126317.1	P54103	Dnajc2	DnaJ homolog subfamily C member 2	NWSEDDLQLLIK,AFNSVDPTFDNSVPSK,KELSEESEDEELQLEEFMPLK,DNF FQVFSVPVFER,LELASLQGLNEILASSTR	EHGVASQADSAAPSER,LELASLQGLNEILASSTR	KAAGEPIK,QQALLAKK,LELASLQGLNEILASSTR
IPI00755714.3		Dnajc21	DnaJ (Hsp40) homolog, subfamily C, member 21	VVFELIAK,NLDNAAEAAEQFK,LIQAAYDVLSDPQER,EFGDGSDENEVEDQEP		
IPI00331385.2	Q9QYI3	Dnajc7	DnaJ homolog subfamily C member 7		HSGASAEVQKEEEEK,HSGASAEVQKEEEEK	
IPI00463344.5		Dnajc8	34 kDa protein	EYVEHTVK,AFEAVDK,ALDVIQAGK,P GSSYFNLNPFVFLQIDPEVTDEEIKK,L TRPGSSYFNLNPFVFLQIDPEVTDEEIK,PGSSYFNLNPFVFLQIDPEVTDEEIK,EGKPTNVEEDDPELFEK,DSVLTSK		
IPI00556723.1	Q8K1M6	Dnm11	Isoform 1 of Dynammin-1-like protein			SKPIPIIMPASPQK,TLESVDPLGGLNTIDILTAIR,IIQHCSNYSTQELLR,LGII GVVNR,LQDVFNTVGDIIQLPQIVV VGTQSSGK
IPI00131445.2	P39054	Dnm2	Isoform 1 of Dynammin-2	NLVDSYVAIINK,YMLPLDNLK		
IPI00469323.1	Q7TSJ0	Dnmt1	Cytosine-specific methyltransferase	YQQHPEDAVDEPQMLTSEK,LNLLHEFLQTEIK,VPALASPAGSLPDHVR	EARPETHLDEDEDGKK,KLESHTVPVQSR,EAEPEQVAPETPEDRDEDEREEK,LVYQIFDFFFSEQIEK,AIIAAAPGEK,FFLLENVR,FYRPE NTHR,FYFLEAYNSK,IVVEFLQNN PDAVYEDLINK,VLEQIEEVDGR,A CQLSVVDDDKK,VVDTESGAAAA VEK	VPALASPAGSLPDHVR,FYRPENTHR,LPLFPEPLHVAFPR
IPI00131694.5	O88508	Dnmt3a	Isoform 1 of DNA (cytosine-5)-methyltransferase 3A		GFGIGELVWVGK,KGLYEGTGR,KA IYEVLQVASSR,DLGIQVDR,LFFE FYR,AIYEVLQVASSR	HLFAPLK,NIEDICISCGSLNVTLEHP LFIGGMCQNCK,HIQEWGPFDLVIG GSPCNDLSIVNPARK
IPI00757806.1	Q3KR45	Dnmt3b	DNA methyltransferase 3B isoform 5		LVALGLFSQHFNLATFNK,KGLYEGTGR,YIASEVCAESIAVGTVK,VL SLFDGIATGYLVLK	
IPI00109459.1	Q9CWR8	Dnmt3l	DNA (cytosine-5)-methyltransferase 3-like		YVEDVTNVVR,FLQTEAVTLQDVR,EEEYLQAQVR	
IPI00331394.3	Q3TVK3	Dnpep	aspartyl aminopeptidase isoform a			MVTLYDNEEVGSESAQGAQSLLTE LILR,NINENFGPNTEIHLVPILATAVQ EELEK,ETACTTGVLTQLTLFK
IPI00222462.4		Dock6	dedicator of cytokinesis 6	YQHLSTAYSPITTETQR,DLIEFPVDDL ELLK		
IPI00882020.1		Dpf2	Putative uncharacterized protein	KGPDGLALPNNYCDFCLGDSK,IIEPD DFLDDLDDEDYEEDTPK,LDASILED R,VDDDSLGEFPVSNSR,LSFSPKPD TDQTLK,GPGLASGQLYSYPAR,EGLISQD GSSLEALLR,IIEPDDFLDDLDDEDYEE DTPKR		

IPI00116134.1	Q99KK7	Dpp3	Dipeptidyl-peptidase 3		FPEDGPELEEVLIQLAAADAR,VLL EAGEGLVTPTTGS DGRPDAR, AAQRPEEV R	
IPI00173116.2	Q9CQS7	Dppa5a	Developmental pluripotency-associated protein 5A	MSHIEQVSQAMFELK,VPEDLKDPEVF QVQSLVLK,NLESPEELIEVFIYGSQNN K	VPEDLKDPEVFQVQSLVLK,NLES PEELIEVFIYGSQNNK	
IPI00117168.3	Q99LT0	Dpy30	Protein dpy-30 homolog	ERPPNPIEF LASYLLK,AYLDQTVVPILL QGLAVLAK	ERPPNPIEF LASYLLK,AYLDQTVV PILLQGLAVLAK	ERPPNPIEF LASYLLK,AYLDQTVVPI LLQGLAVLAK,VDLQSLPTR
IPI00263313.1	P32233	Drg1	Developmentally-regulated GTP-binding protein 1	IIENELEGFGIR,IGFVGFPSVGK,IDQISI EELDIIYK,SDATADDLIDVVEG NR,IQLL DLPGIIEGAK	IDQISIEELDIYK,IAEIEAEMAR	STLLSNLAGVYSEVAAYEFTLLTV PGVIR,IGFVGFPSVGK,IQLLDLPGII EGAK
IPI00134820.1	Q9QXB9	Drg2	Developmentally-regulated GTP-binding protein 2	GANIQLLDLPGIIEGAAQGR,VALIGFPS VGK		GANIQLLDLPGIIEGAAQGR,KPNSV VISC GMK
IPI00553419.3		Dsp	desmoplakin	ITNLTQQLEQASIVK,SAIQLEEEYENL LK,KELIEK,TLELQGLINDLQR,QLGIY EAMKIGLVR,AVTGYNDPETGNIISLFQ AMNK,SVQNDSQALAEVLNQLK,PGTA LELLEAQAATGFIVDPVSNLR,DYELQL ASYTSGLETLLNIPIK,GFFDPNTEENLT YLQLK,ENAA YQFFEEAQSTEAYLK,N MPLQHLLLEQIK,IGLVRPGTALELLEAQ AATGFIVDPVSNLR,GYFNEELSEILSD PSDDTK,ALLQAILQTEDMLK		LLQLQEQMRALYKAISVPR,GAGAIA GASAPK,QEDYMK,KNLIDR
IPI00230692.1	Q91ZU6-4	Dst	Isoform 4 of Bullous pemphigoid antigen 1, isoforms 1/2/3/4	DVPELSQHMQUESTAK,LGELCSEPPE HSESTSGSKER,LFLSYLMVNSYMDAH TGQR	QVPVVKPSLGTEDLRK,EQVETLR PWIDR,VIAGTINQTTGEVLSVFQA VLR	TISEGENLLLK,ELMVSVLGPLSIDPN MLNTQK,QLEGILK,RGSDASDFDIS EIQSVCS DVETVPQTHRVPVR,EPIA LDPK,GSDASDFDISEIQSVCS DVET VPQTHR
IPI00127942.4	Q9R0P5	Dstn	Destrin	EELMFFLWAPEQAPLK,MIYASSK,KEE LMFFLWAPEQAPLK,IFYDMK,LGGSLI VAFEGSPV,EILVGDVGATITDPFK,HE YQANGPEDLNR	KCSTPEEIKK,YALYDASFETK,KE ELMFFLWAPEQAPLK,LGGSLIVA FEGSPV,EILVGDVGATITDPFK,H EYQANGPEDLNR,KAVIFCLSADK R K,AVIFCLSADKK,AVIFCLSADK	YALYDASFETK,EILVGDVGATITDP FK,HFVGM LPEK,HEYQANGPEDLN
IPI00896629.1		Dtymk	26 kDa protein	LNQGVTLVLDR,QLMEEK		GALIVLEGVDR,LVTALCASGHR,L NQGVTLVLDR
IPI00129184.3	Q91X11	Dus3l	Isoform 1 of tRNA-dihydrouridine synthase 3-like	GVNGVLDVPLTVKMRTGVQER,DFTH YGLEHWGSDTQGVER,FAGAHLGPEG QNLVQEEVVAR		
IPI00380332.4	Q7TNL7	Dusp9	Dual specificity phosphatase 9, isoform CRA_a			KSNISPNFNFMGQLLDFER,SLLPG PPLQPPPPAPVLLYDQGS SGQCHR
IPI00187434.1	Q8VCG1	Dut	deoxyuridine triphosphatase isoform 1	HFIDVGAGVIDEDYR,GNVGVVLFNFG K,ISYPDLEEVQTLDDTER,AAGYDLFS AYDYTISPMEK	MPLLSVLLR,GNVGVVLFNFGK,L SEHATAPTR,ISYPDLEEVQTLDD TER,IAQLICER	

IPI00828867.2	A2AX52	Dvwa	Collagen alpha-4(VI) chain	RGNSGFPLAGTDPDQGPPEGK GTK,GEPGFPYGVQGEDGNP GR
IPI00119876.1	Q9JHU4	Dync1h1	Cytoplasmic dynein 1 heavy chain 1	EFISYNINIDIHYGVK,EDLDKVEPA VIEAQNNAVK,LLSLSNAISTVPLTQ LR,TLINELVK,VPQIEVETHK,KLE HLITELVHQR,FYFVGDEDLLEIIG NSK,LLNTFLER,TKPVTGNLRPEE ALQALTIYEGK,YATLATVSR,EAA EVTR,FNYGFEYLVGVQDK,SVLVS AGNVK,VPVNLRL,LLLIQAFRPDR ,VKDDIESLHDK,LAETVFNQEK, EWWNTYELDLVNYQNK,LVAEDIP LLFSLSDVFPVGVQYHR,INMLVIE LK,SLLQALNEVK,RVEDVLGK,VT FVNFTVTR,CLGSLFMSMLHQACR, LVQTPLEDR,WQALLVQIR,LEGV EGVAHIIDPK,INEWLTVEK,LLAE SVTEVEIFGK,VLQLYQITQINHGL MMVGPSPSGSK,DVLLVAQGEMA LEEFK,VDDLLIIEEK,LVEAISR,E NFIPTIVNFSAAEISDAIR,TVENIK DPLFR,NTISLLVAGLK,IQGLTVEQ AEAVR,YQGVVHYELTEEEK,GI FEALRPLETLPVEGLIR,HVPVVVYV DYPGPASLTQIYGTFR,VFYEEE LDVPLVLFNEVDHVLV,YKEEYA VLISEAQAIK,VPLAIVNK,VQVALE ELQDLK,ADLAAVEAK,VLTLSEDS PYETLHSFISNAVAPFFK
IPI00776018.1	A2BFF9	Dync1i2	Dynein cytoplasmic 1 intermediate chain 2	EDEEEEDDVATPKPPVEPEEEK,KEAA VSVQEEESDLEK,EAAVSVQEEESDLEK, QQILHSEEFLSFFDHSTR
IPI00153421.1	Q8R1Q8	Dync1li1	Cytoplasmic dynein 1 light intermediate chain 1	VEDNFEDIITKPPVR,AGATSEGVLANF FNSLLSK
IPI00132734.1	Q9D0M5	Dynll2	Dynein light chain 2, cytoplasmic	NFGSYVTHETK,DIAAYIK
IPI00111829.1	Q9D903	Ebna1bp2	Probable rRNA-processing protein EBP2	GFSDKLDLEGDQKPVER,QAQAAVL AVLPR,GLLKPGLNVVLEKPK,LDVTLG PVPEVSETQPTPNQDQK
IPI00454049.4	Q8BH95	Echs1	Enoyl-CoA hydratase, mitochondrial	ALNALCNGLIEELNQALETFEQDP AVGAVLTGGDK,AFAAGADIK,LV EEAIQCAEK
IPI00117049.1	O54693	Eda	Isoform TAA of Ectodysplasin-A	HTTFFGAIR,AYSEESRR
IPI00330066.5	Q3UJB9	Edc4	Isoform 1 of Enhancer of mRNA-decapping protein 4	LCAQLEGLQSTVTDHVER,ALQD VQIR,GEVSVALK,AEVQHQLHVA VGSLQESILAQVQR
				GGQLQEQLTQQLSQALSSAVAGR, GLVSTLQSATEQMAATVSSSVR,LF QFLQADPHNSLSK

IP100471325.2	Q9JMG1	Eef1	Endothelial differentiation-related factor 1	INEKPQVIADYESGR,GKDIGKPIEK,LD RETEELHHDR,QAILAAQR		
IP100900431.1	Q921E6-2	Eed	Isoform 2 of Polycomb protein EED		MAGSHARPPRR,HYVGHGNAINEL K	
IP100307837.6	P10126	Eef1a1	Elongation factor 1-alpha 1	THINIVIGHVDSGKSTTTGHLIYK,QTV AVGVK,KLEDGPK,TIEKFEKAAEMG K,SGDAAIVDMVPGKPMCVESFSDYP PLGR,EKTHINIVIGHVDSGK,NMITGT SQADCAVLIVAAGVGEFEAGISK,PGM VVTFAFVNVTTEVK,LPLQDVYK,YEEI VK,YYVTIIDAPGHR,YEEIVKEVSTYIKK ,SVMHHEALSEALPGDNVGFNVK,TH INIVIGHVDSGK,VETGVLKPGMVVTF APVNVTEVK,SGDAAIVDMVPGK,EA AEMGK,IGGIGTVPVGR,MDSTEPPYS QK,STTTGHLIYK,IGYNPDTVAFVPIG WNGDNMLEPSANMPWFK,RYEEIVK, QLIVGVNKMDSTEPPYSQK,EVSTYIK, EHALLAYTLGVK,QLIVGVNK	DGSASGTTLEALDCILPPTRPTD K,QTVAVGVK,KLEDGPK,THINIV VIGHVDSGK,VETGVLKPGMVVTF APVNVTEVK,MDSTEPPYSQK,S TTTGHLIYK,IGGIGTVPVGR,SGD AAIVDMVPGKPMCVESFSDYPL GR,IGYNPDTVAFVPIGWN MLEPSANMPWFK,NMITGTSQAD CAVLIVAAGVGEFEAGISKNGQT R,RYEEIVK,EVSTYIK,NMITGTSQ ADCAVLIVAAGVGEFEAGISK,LPL QDVYK,YYVTIIDAPGHR,YEEIVK, DGSASGTTLEALDCILPPTRPTD KPLR,EHALLAYTLGVK,KDGSAS GTTLEALDCILPPTRPTDK	DGSASGTTLEALDCILPPTRPTDK, QTVAVGVK,VETGVLKPGMVVTF PVNVTEVK,SGDAAIVDMVPGK,D GSASGTTLEALDCILPPTR,MDSTE PPYSQK,STTTGHLIYK,IGGIGTVP GR,SGDAAIVDMVPGKPMCVESFS DYPPLGR,IGYNPDTVAFVPIGWN GDNMLEPSANMPWFK,RYEEIVK,E VSTYIK,NMITGTSQADCAVLIVAAG VGEFEAGISK,PMCVESFSDYPLG R,LPLQDVYK,PGMVVTFAPVNVTE VK,YEEIVK,YYVTIIDAPGHR,EHAL AYTLGVK,DGSASGTTLEALDCILP PTRPTDKPLR,KDGSASGTTLEAL DCILPPTRPTDK,QLIVGVNK
IP100119667.1	P62631	Eef1a2	Elongation factor 1-alpha 2	THINIVIGHVDSGKSTTTGHLIYK,QTV AVGVK,TIEKFEKAAEMGK,THINIVI GHVDSGK,EEAEMGK,STTTGHLIYK,I GGIGTVPVGR,EKTHINIVIGHVDSGK, YYVTIIDAPGHR,NMITGTSQADCAVLIV AAGVGEFEAGISK,LPLQDVYK,EHALL AYTLGVK,QLIVGVNK,SVMHHEALSE ALPGDNVGFNVK		
IP100320208.3	O70251	Eef1b2	Elongation factor 1-beta	TPAGLQVLNDYLADK,SIQADGLVWGS SK,SSILLDVKPWDDTDMTK,YGPSS VEDTTGSGAADA	TPAGLQVLNDYLADK,SIQADGLVW GSSK,LAQYESK,LQIQCVVEDDK,L EECVR,KLQIQCVVEDDK,VGTDML EEQITAFEDYVQSMDDAAFNK,WYN HIK,YGPSSVEDTTGSGAADA	
IP100118875.4	Q68FG5	Eef1d	eukaryotic translation elongation factor 1 delta isoform a	VGTDLLEEEITKFEHVQSVDAIAFNK,I TSLEVENQNL,SLAGSSGPGASSGP GGDHSELIVR,GVVQDLQQAISK,FEHV VQSVDAIAFNK,SIQLDGLVWGASK,VG TDLLEEEITK	ITSLEVENQNL,LQIQCVVEDDK VGTDLLEEEITK,SLAGSSGPGAS SGPGGDHSELIVR,QVEPTK,GV VQDLQQAISK,FEHVQSVDAIAF NK,SIQLDGLVWGASK,LVPVGYG IR,ATAPQTHVSPMR	ITSLEVENQNL,LQIQCVVEDDK,L QIQCVVEDDKVGTDLLEEEITK,SLA GSSGPGASSGPGGDHSELIVR,GV VQDLQQAISK,KLQIQCVVEDDK,VG TDLLEEEITK
IP100620302.3	P57776-2	Eef1d	Isoform 2 of Elongation factor 1-delta	FEEHVQSVDAIAFDK,ITSLEVENQNL ,FEEHVQSVDAIAFDKI,GVVQDLQQA ISK,SIQLDGLVWGASK,VGTDLLEEEIT K		

IPI00133928.1	Q9D1M4	Eef1e1	Eukaryotic translation elongation factor 1 epsilon-1	EHLLGSTAE EK,QIPVLQTNNGPSLMG LSTIATHLVK	EHLLGSTAE EK,FIVDLTVQEK	EHLLGSTAE EK,QLHSSIVFIK,SLGL KPGNK,QIPVLQTNNGPSLMGLSTIA THLVK
IPI00318841.4	Q9D8N0	Eef1g	Elongation factor 1-gamma		DGWSLWYAEYR,RILGLLDTHLK, VPAFEGDDGFCVFESNAIYYVS NEELR,ILGLLDTHLK,KFAESQPK, DPFAHLPK,LDPGSEETQTLVR,A LIAAQYSGAQVR,TFLVGER,YSN EDTLSVALPYFWEHFDK,GQELA FPLSPDWQVDYESYTW,VL SAP PHFHFGQTN,STFVLDEFK,TP EFLR,STFVLDEFK,AKDPFAHLPK ,FAESQPK,KLDPGSEETQTLVR	ILGLLDTHLK,MAQFDAK,DPFAHLP K,KFAESQPK,LDPGSEETQTLVR,Q VLEPSFR,ALIAAQYSGAQVR,TFLV GER,YSNEDTLSVALPYFWEHFDK, VLSAPPHFHFGQTNR,WFLT CINQP QFR,VTLADITVVCTLLWLYKQVLEP SFR,TPEFLR,QAFPNTNR,FAESQ K
IPI00466069.3	P58252	Eef2	Elongation factor 2	KSDPVVSYRETVSEESNVLCLSK,ARP FPDGLAEDIDKGEVSAR,EGIPALDNFL DKL,VTDGALVVVDCVSGVCVQTETVL R	FVSPVVR,ARFPDGLAEDIDK EVSAR,TFCQLIDPIFK,KEDLYLK PIQR,RWLPAGDALLQMITIHLPS VTAQK,ETVSEESNVLCLSK,EDL YLKPIQR,SDPVVSYR,GVQYLNEI K,NMSVIAHVDHGK,GGGQIIPAR ,DLEEDHACIPIK,DSVAGFQWAT K,GEGQLSAAER,DGSGFLINLIDSPG PGHVDFSSEVTAALR,KIWCFCG DGTGPNILTDITK,PSQVVAETR,D LEEDHACIPIK,STLTDLSLVCK,NP ADLPK,STAISLFYELSENDLNFIK, AYLPVNESFGFTADLR,YVEPIED VPCGNIVGLVGVQFLVK,LMEPI YLVEIQCPQVGGIYVGLNR,VT DGALVVVDCVSGVCVQTETVLR, SDPMVQCIIIEESGEHIIAGAGELH LEICK,IMGPNYTPGK,EGIPALD NFLDKL,IWCFGPDGTGPNILTDIT K,GVQYLNEIKDSVAGFQWATK, WLPAGDALLQMITIHLPSVTAQK ,GHVFEESQVAGTPMFVVK,AGIIA SAR,ALLELQLEPEELYQTFQR,YF DPANGK,YEWDVAEAR,VFDAIMN FR,VFSGVVSTGLK	FVSPVVR,TFCQLIDPIFK,ARFP DGLAEDIDKGEVSAR,ETVSEESNV LCLSK,SDPVVSYR,FYAFGR,GVQY LNEIK,EGALCEENMR,NMSVIAHVD HKG,GGGQIIPAR,DLEEDHACIPIK, GEGQLSAAER,DGSGFLINLIDSPG HVDVDFSSEVTAALR,PSQVVAETR,KV EDMMK,CELLYEGPPDDEAAMGIK, KEDLYLK,KSDPVVSYR,EGIPALDN FLDK,SNTGGQAFQPCVFDHWQILP GDPFDN SSR,STLTDLSLVCK,NPADL PK,STAISLFYELSENDLNFIK,AYLPV NESFGFTADLR,CLYASVLTAQPR,L MEPIYLVEIQCPQVGGIYVGLNR, KLWGDR,EGIPALDNFLDKL,IWCFG PDGTGPNILTDITK,GVQYLNEIKDS VVAGFQWATK,WLPAGDALLQMITI HLPSPVTAQK,GHVFEESQVAGTP MFVVK,AGIIASAR,ALLELQLEPEEL YQTFQR,YFDPANGK,YEWDVAEAR ,VFSGVVSTGLK
IPI00226872.1	Q8C845	Efh2	Putative uncharacterized protein	SMIQEVEDDFDSK,FE EIKAEQEER,D GFIDLMELK		

IPI00649950.3	A2AH85	Eftud2	elongation factor Tu GTP binding domain containing 2 isoform b	IAVEPVNPSELPK,FNTTSVIKIAVE PVNPSELPK,GGGQIIPTAR,VPAG NWWLIEGVDQPIVK,GLSEDVSISK ,GLAEDIENEVQITWNR,ILDAVV AQEPLHR,VLSGTIHAGQPVK,AFI PAIDSFGFETDLR,SFVEFILEPLY K	FNTTSVIKIAVEPVNPSELPK,KFTLM EQTLPVTVYEMDFLADLMDNSELIR, LAVTVCINK,GGGQIIPTAR,YHIEVN R,ILAQVVGVDVDTSLPR,RVVYSAFL MATPR,TCFVDCLIEQTHPEIR,ILDA VVAQEPLHR,VLSGTIHAGQPVK,AF IPAIDSFGFETDLR,NVTLCGHLHHG K
IPI00845795.1	Q69ZW3	Ehbp1	Isoform 1 of EH domain-binding protein 1	EQLLLDELVALVDKR,EQLLLDELVALV DK	
IPI00126083.3	Q9WVK4	Ehd1	EH domain-containing protein 1		FQALKPK,LNAFGNAFLNR,ELVNNL GEIYQK,LEGHELPADLPPHIPPSSK
IPI00318671.2	Q1MWP8	Ehd4	EH-domain containing 4-KJR (Fragment)	LFEAEAQDLFR,EYQISAGDFPEVK,SG GMDAVQTVTGGLR	
IPI00153608.3	Q60872	Eif1a	Eukaryotic translation initiation factor 1A		AYGELPEHAK,VWINTSDIILIGLR, ELVFKEDGQEYAQVIK,EDGQEY AQVIK
IPI00308984.6	Q8BMJ3	Eif1ay	Eukaryotic translation initiation factor 1A, X-chromosomal		AYGELPEHAK,ELVFKEDGQEYA QVIK,VWINTSDIILVGLR,EDGQEY AQVIK
IPI00318464.2	Q9CXU9	Eif1b	Eukaryotic translation initiation factor 1b	GDDLIPAGTEDYIHIR,NICQFLLEVIGV K,FACNGTVIEHPEYGEVIQLQGDQR,T LTTVQGIADDYDK	GDDLIPAGTEDYIHIR,TLTTVQGIAD DYDK
IPI00119806.6	Q8BJW6	Eif2a	Isoform 1 of Eukaryotic translation initiation factor 2A		YQAVPSEVPSEEPK,VAVYVPGS K,VNIINVANK,LYQYPNFAGPQAA LANK,ATAVLVIASTEVDK,VATAY RPPALR,GLLHSFDLPK,NTVTQS ASGDPEVDKK,YDVPSNGELWQV SWQPFLDGIFPAK,ETALLQELED LELGV
IPI00474446.4	Q6ZWX6	Eif2s1	Eukaryotic translation initiation factor 2 subunit 1	EALRAGLNCSTETMPIKINLIAPPR,FPE VEDVVMVNVNR,DEQLESFQR,HAVSD PSILDSLNLNEDER,TEGLSVLNQAMA VIK	INLIAPPR,VVTDTDETELAR,FPEVE EDVVMVNVNR,NECVVIR,ADIEV ACYGYEGIDAVK,HAVSDPSILDS LDLNEDEREVLINNINR,RLTPQAV NR,TEGLSVLNQAMAVIK
IPI00116302.3	Q99L45	Eif2s2	Eukaryotic translation initiation factor 2 subunit 2	IESDAQEPAEPEDDLDIMLGNNK,FPE EDEILEKDEALEDEDSK,KIFDIDAEAE AIKDVK,LYFLQCETCHSR,DDGISFSS QTAWAGSER,DYTYEELNLR,IESDAQ EPAEPEDDLDIMLGNNK,FPEEDEILEKD EALEDEDSK,KDDGISFSSQTAWAGSE R,KIFDIDAEAEAIK,FPEEDEILEK,DAS DDLDDLNFFNQK,KPFMLDEEGDAQT EETQPSETK,KDASDDLDDLNFFNQK,I FDIDAEAEAIKDVK,IFDIDAEAEAIK,EV EPEPTEEKDVADEEDSR	TGFQAVTGK,DASDDLDDLNFFNQK ,SPDTILQK,TSFVNFTDICK,VFNIMR ,IFDIDAEAEAIK,FVMKPPQVVR

IPI00129276.1	P23116	Eif3a	p162 protein	VLLATLSIPITPER,TLSEFGSDLNATR	AVEDIHGLFSLSK,VLLATLSIPITPER,LLQQVAQIYQSIEFSR,RVPPPALSR,RGLDDDRGPR,YLELCVDL R,ILQEHEQIK,ILQEHEQIKK,FSVLQYVVPEVK,LYHDIAQQAFK,LTSLVPFVDAFQLER,DLYNWLEVEFNPLK,LESLNIQR	VLLATLSIPITPER,QTIEERK,IGLINDMVR,MHLSQIQR,RLEEIPLIK,TLSEFGSDLNATR,LLDMDGIIVEK,RVPPPALSR,ILQEHEQIK,FSVLQYVVPEVK,LATLLGLQAPPTR,LYHLSR,HCDLQVR,KLEEVER,LYHDIAQQAFK,SGNALFHASTLHR,PGPWRPFVKPGGWR,L TSLVPFVDAFQLER,LESLNIQR
IPI00229859.1	Q8CIJ3	Eif3b	Eif3b protein		GTQGVVTNFEIFR,DRPQEADGIDSVIVVDNVPQVGPDR,ETIIAFWEPNGSK,GHPSAGAEIEGGSDGSAEAEPR,GYIFLEYASPAHAVDAVK,VNLFTDFDK,AKPAAQSEETATSPAASPTPQSAER,FAVLHGEAPR,DQYSVIFESGDR,SPSQEPSAPGK,YVVTSVSWWSHK,TSIFWNDVKDPVSIEER,PRPPTLLSQDQIK	GTQGVVTNFEIFR,FCQLLWRPRPPTLLSQDQIK,GTYLATFHQR,SPSQEPSAPGK,PRPPTLLSQDQIK,FAVLHGEAPR
IPI00321647.2	Q8R1B4	Eif3c	Eukaryotic translation initiation factor 3 subunit C		TEPTAQNLALQLAEK,FEELTNLIR,LNEILQVR,GTEITHAVVIK,ILADLEDYLNELWEDK,TMVQLGICAFR,GCILTLVER,LGSLVENNER,ELLGQGLLLR,ILADLEDYLNELWEDKEGK	TEPTAQNLALQLAEK,FEELTNLIR,GTEITHAVVIK,ILADLEDYLNELWEDK,ELLGQGLLLR,GCILTLVER,LGSLVENNER,ATQIELLQLLVQIAAENNLGCVIVK,ILHTYYK
IPI00762774.2	O70194	Eif3d	Eukaryotic translation initiation factor 3 subunit D		LGDDIDLIVR,EEMDFPQLMK,HVILGTQQFKPNEFASQINLSVENAWGILR,SVYSWDIVVQR,GAVIATEL K	
IPI00132250.1	P60229	Eif3e	Eukaryotic translation initiation factor 3 subunit E		HLVFPLEFLSVK,LFIFETFCR,NLYSDDIPHALR,YLTTAVITNK,LDLLSDTNMVDVFAMDVYK	HLVFPLEFLSVK,WIVNLIR,ECESVLVNDFFLVACLEDFIENAR,TTVVAQLK,RTTVVAQLK,NLYSDDIPHALR
IPI00120914.1	Q9DCH4	Eif3f	Eukaryotic translation initiation factor 3 subunit F		LHPVILASIVDSYER,VSADNTVGR,IQDALSTVLQYAEDVLSGK,VIGTLLGTVDK,VIGLSSDLQVGGASAR	FLMSLVNQVVK,VSADNTVGR,IQDALSTVLQYAEDVLSGK,VIGTLLGTVDK,VIGLSSDLQVGGASAR
IPI00622371.3	Q9Z1D1	Eif3g	Eukaryotic translation initiation factor 3 subunit G	ETDLQELFR,ETDLQELFRPFGSISR,GFAFISFHR,PSWADQVEEEGEDDK,GIPLPTGDTSPPELLPGDPLPPP,AIAGVSGFGYDHLILNVEWAK,ELAEQLGLSTGEK,LPGELEPVQAAQSK,EKLPGELEPVQAAQSK	LPGELEPVQAAQSK,VTNLSEDTR	GIPLPTGDTSPPELLPGDPLPPP,LPGELEPVQAAQSK,VTNLSEDTR
IPI00128202.1	Q91WK2	Eif3h	Eukaryotic translation initiation factor 3 subunit H		EGTGSTATSSGSAGGAVGK,LFKPHQAPAR,KEGTGSTATSSGSAGGAVGK,SAVADKHELLSLASSNHGK	HELLSLASSNHGK,TAQGSLSLK,EGTGSTATSSGSAGGAVGK,LFKPHQAPAR

IPI00269613.6	Q9QZD9	Eif3i	Eukaryotic translation initiation factor 3 subunit I	PVNSAALSPNYDHVVLGGGQEAMDV TTTSTR,FFHLAFEEEEFGR,DPIVNVWY SVNGER,TERPVNSAALSPNYDHVVL GGGQEAMDVTTTSTR,EGDLLFTVAK DPIVNVWYSVNGER,GHFGPINSVAFH PDGK	FFHLAFEEEEFGR,HVLTGSADNSC R,LFDSTTLEHQK,SGEVLVNVK	HVLTGSADNSCR,GHFGPINSVAFH PDGK,ITSAVWGPLGECVIAGHESG ELNQYSAK
IPI00120322.1	Q9DBZ5	Eif3k	Isoform 1 of Eukaryotic translation initiation factor 3 subunit K		ENAYDLEANLAVLK,FICHVVGITY QHIDR	ENAYDLEANLAVLK,ALTNLPHTDFT LCK,YNPENLATLER
IPI00463573.3	Q8QZY1	Eif3l	Eukaryotic translation initiation factor 3 subunit L	VFSDEVQQAQLSTIR,QLEVYTSGGD PESVAGEYGR	IDESIHLQLR,VFSDEVQQAQLS TIR,VFANILLYIQR,NTPWPEAEAI APQVGNDAVFLILYK,VWNVHVSVL NVLHSLVDK,LAGFLDLTEQEFR,V YELQASR,IQLLVFK,MLGYFSLVG LLR,VSGGPSLEQR	VFSDEVQQAQLSTIR,VLENIELNK, IQLLVFK,VSGGPSLEQR
IPI00115580.4	Q99JX4	Eif3m	Eukaryotic translation initiation factor 3 subunit M		FLEGELIHDLLTIFVSAK,EISFDTM QQELQIGADDVEAFVIDAVR,ALK DPNAFLFDHLLTLKPVK	FLEGELIHDLLTIFVSAK,VAASCGAI QYIPTELDQVR,ALKDPNAFLFDHLL TLKPVK,DPNAFLFDHLLTLKPVK
IPI00118676.3	P60843	Eif4a1	Eukaryotic initiation factor 4A-I	GIYAYGFEEKPSAIQQR	ELAQQIQK,GIYAYGFEEKPSAIQQ R,GIDVQQVSLVINYLPTNR,RYL SPK,GYDVIAQAQSGTGK,GVAIN MVTEEDKR,VLITDILLAR,ATQAL VLAPTR,ENYIHR,TATFAISILQQIE LDLK,MFVLDEADEMLSR,LQMEA PHIIVGTPGR,KVDWLTEK,KGVAI NMVTEEDKR,KEELTLEGIR,LNSN TQVVLLSATMPSDVLEVTK,GFKD QIYDIFQK,VFDMLNR,DIETFYNTS IEEMPLNVADLI,PSAIQQR	ELAQQIQK,GYDVIAQAQSGTGK,D QIYDIFQK,VLITDILLAR,ATQAL PTR,ENYIHR,TATFAISILQQIELDLK, MFVLDEADEMLSR,LQMEAPHIIVGT PGR,KVDWLTEK,KEELTLEGIR,LDT LCDLYETLTITQAVIFINTR,GVAINM VTEEDK,LNSNTQVVLLSATMPSDV LEVTK,QFYINVER,VFDMLNR,DIET FYNTSIEEMPLNVADLI,PSAIQQR
IPI00409918.1	P10630-2	Eif4a2	Isoform 2 of Eukaryotic initiation factor 4A-II	GIYAYGFEEKPSAIQQR	GIDVQQVSLVINYLPTNR,GIYAY GFEEKPSAIQQR,ELAQQIQK,KGV AINFVTEEDKR,RYLSPK,GYDVIA QAQSGTGK,VLITDILLAR,ENYIH R,MFVLDEADEMLSR,VFDMLNR, KVDWLTEK,PSAIQQR	ELAQQIQK,GYDVIAQAQSGTGK,QF YINVER,VLITDILLAR,KEELTLEGIK, ENYIHR,MFVLDEADEMLSR,VILAL GDYMGATCHACIGGTNVR,KVDWL TEK,VFDMLNR,PSAIQQR,LQAEAP HIVVGTGPR
IPI00221581.1	Q8BGD9	Eif4b	Eukaryotic translation initiation factor 4B	VDVADQAQDKDRDDR,PVSWADET DLEGDVSTTWHSNDDVYR,SPPYTA FLGNLPYDVTEDSIK,TISLTDFLAEDG GTGGGSTYVPK	GFGYAEFEDLSLLSALSNEESL GNR,SPPYTAFLGNLPYDVTEDSI KDFFR,AASIFGGAKPVDTAAR	GFGYAEFEDLSLLSALSNEESL NR,VDVADQAQDK,VDVVGATQGG AGSCSR,SPPYTAFLGNLPYDVTED SIK,GLNISAVR,TISLTDFLAEDGGT GGGSTYVPK

IPI00421179.1	Q6NZJ6	Eif4g1	Isoform 1 of Eukaryotic translation initiation factor 4 gamma 1		GSSGGSGAKPSDTASEATRPATL NR,ELQALYALQALVVTLEQPANL LR,GVIDLIFEK,IHNAENIQPGEQK ,VPTTEKPTVTVNFR,IISSVIMTEDI K,ATSLLEILGLLCK,EAVGDLLDA FK,LKEELEEAR,ERPSQPEGLR	GLPLVDDGGWNTVPISK,EITKPLRP MGK,LPGINCGPDFTPSFANLGR,IH NAENIQPGEQK,VPTTEKPTVTVNFR,ATSLLEILGLLCK,LGIESTLER,G GPGGELPR,ITKPGSIDSNNQLFAP GGR,PIPESEFSSSPLQVSTALVPHK ,EAVGDLLDAFK,ERPSQPEGLR
IPI00126006.6	Q62448	Eif4g2	Isoform 1 of Eukaryotic translation initiation factor 4 gamma 2			GLSFLFPLLK,FDKLCLELLNVGVES KLILK,SQGLSQLYHNQSQGLLSQL QGQSK,FSASSGGGGR
IPI00124742.3	Q9WUK2	Eif4h	Isoform Long of Eukaryotic translation initiation factor 4H	TVATPLNQVANPNSAIFGGARPR,SLR VDIAEGRK,TVATPLNQVANPNSAIFG GAR,ELPTEPPYTAYVGNLFPNTVQGD IDAIFK	GFCYVEFDEVDSLK,ELPTEPPYT AYVGNLFPNTVQGDIDAIFK	LQLKPR,ELPTEPPYTAYVGNLFPNT VQGDIDAIFK,TVATPLNQVANPNSA IFGGAR
IPI00108125.4	P63242	Eif5a	Eukaryotic translation initiation factor 5A-1	RNDFQLIGIQDGYLSLLQDSGEVR,ND FQLIGIQDGYLSLLQDSGEVR,VHLVGI DIFTGK	LPEGDLGK,YDCGEEILITVLSAMT EEAVAIK,RNDFQLIGIQDGYLSL LQDSGEVR,NGFVVLK,EDLRLPE GDLGK,NDFQLIGIQDGYLSLLQD SGEVR,IVEMSTSK,KYEDICPSTH NMDVPNIK,VHLVGIDIFTGK,VHL VGIDIFTGK	LPEGDLGK,YDCGEEILITVLSAMTE EEAVAIK,NDFQLIGIQDGYLSLLQD SGEVR,IVEMSTSK,YEDICPSTHNM DVPNIK,KYEDICPSTHNMDVPNIK,V HLVGIDIFTGK
IPI00756424.3	Q05D44	Eif5b	Isoform 1 of Eukaryotic translation initiation factor 5B	HTHVQDGEAGGITQQIGATNVPLEAIN EQTK,ELEELSLEAQGIR,IVELK		EGDTIIVPGVEGPIVTQIR,TLAGLPL LVAYK,ILPQYIFNSR,DAAAVKPTEN NEEESASK,ALPGMGTIDVILINGR, HIAVFPCK,TFVSLVPTSHTGDGM GSLIYLLVELTQTMLSKR
IPI00115862.1	O55135	Eif6	Eukaryotic translation initiation factor 6		LSALGNVTTCDNDYVALVHPDLDR ETEEILADV LK,NSLPDSVQIR	TSIEDQDELSSLLQVPLVAGTVNR,L SALGNVTTCDNDYVALVHPDLDR
IPI00400401.1	Q80Y81	Elac2	Isoform 1 of Zinc phosphodiesterase ELAC protein 2	ELGLPVGTAAPAAVAVK,ALFAGDIEE MVER		VCFGDFPTVPK,LISLLETCDLEEF QTCLVR,YQLRPK,ELGLPVGTAAP AIIAAVK,IQTQLSLIHPDIFPQLTSFY SK
IPI00466032.3	Q78QY3	Elav1	ELAV (embryonic lethal, abnormal vision, Drosophila)-like 1	PSSEVIK,FAANPNQNK,TNLIVNYLPQ NMTQEELR,SLFSSIGEVESAK,ILQVS FK,FGGPVHHQAQR	FAANPNQNK,VLVDQTTGLSR,IL QVSFK,FGGPVHHQAQR	RSEAEAEITSFNGHK,FAANPNQNK, SLFSSIGEVESAK,VLVDQTTGLSR,I LQVSFK,FGGPVHHQAQR
IPI00123165.5	Q3UKU1	EII2	RNA polymerase II elongation factor ELL2	DKNSLGAILQQVANLNPK,NSLGAILQ QVANLNPK		
IPI00224682.2	Q9CZX0-2	Elp3	Isoform 2 of Elongator complex protein 3	DIEQFIEFFENPAFRPDGLK,FQHQQF GMLLMEEAER,VVTHMMPDLPNVGLE R,LEIGVQSVYEDVAR,DVDLNKMKTK, YGLASQPR		
IPI00114401.1	O08579	Emd	Emerin	DDIFSSLEEEGKDR,LIYGQDSAYQSIA HYR,DYNDYYEESYLTTK		
IPI00127554.1	O35130	Emg1	Probable ribosome biogenesis protein NEP1		VTTAFEEVWGVI,LIVVLEGASLET VK,AGLLQVYIHTQK	

IPI00621842.6		Enah	enabled homolog isoform 1	VEDGSFPGGGNTGSVSLASSK,STPS SQPSANGVQTEGLDYDR,QNSQLPAQ VQNGPSQEELEIQR,QNSQLPAQVQN GPSQEELEIQR	VHIYHHTGNNTFR,APSTSTPEPTR, ELEIQR	
IPI00331704.7	P17183	Eno2	Gamma-enolase	SGETEDTFIADLVVGLCTGQIK,HIAQL AGNSDLILPVPAFNVINGGSHAGNK,A AVPSGASTGIYEALER		
IPI00228548.6	P21550	Eno3	Beta-enolase	LAQSNWGWVMVSHR,SGETEDTFIAD LVVGLCTGQIK,AAVPSGASTGIYEAL LR,HIADLAGNPDLVLPVPAFNVINGGS HAGNK	SGETEDTFIADLVVGLCTGQIK,LA QSNWGWVMVSHR,YDLDFK,VNQ IGSVTESIQACK,FGANAILGVSLA VCK,AAVPSGASTGIYEALER,EA LELLK	SGETEDTFIADLVVGLCTGQIK,LAQ SNWGWVMVSHR,YDLDFK,VNQIGS VTESIQAACK,FGANAILGVSLAVCK,A AVPSGASTGIYEALER
IPI00458003.1	Q6DYE8	Enpp3	Ectonucleotide pyrophosphatase/phosphodiesterase family member 3		PTNIESCSENK,LNLSEGEVAATVK, LETALCSCADDCLQR	
IPI00310578.3	Q9JIX0	Eny2	Enhancer of yellow 2 transcription factor homolog	ALVPDSVK,GLEHVTVDLVAEITPK	ALVPDSVK,TFLAQHASL,GLEHVT VDDLVAEITPK	
IPI00309481.1	O70318	Epb4.112	Band 4.1-like protein 2	QAGASVLPVETEAQEHVVAQK,ETKE VQTSELKAEVASQK		
IPI00849631.1		Epb4.114b	erythrocyte protein band 4.1-like 4b		EPCPGGTLTLLSEQSEVAGNVWSGH ACCQGKR,VQGKEPCPGGTLTLLSEQ SEVAGNVWSGHACCQGKR	
IPI00320459.2	Q8R0W0	Eppk1	Epiplakin		GFFDPNTHENLTYLQLLER,REEL LAQHLAGK,IPVFQAMK,YQAGGL TVHDVTTLTSLAR,LSVEEAVA AGVVGGEIQEK,LLEAQIATGGVID PVHSHR,VPGIHGDVTAELFNSG ILNK,GFFDPNTHENLTYLQLLER	
IPI00339916.9	Q8CGC7	Eprs	Bifunctional aminoacyl-tRNA synthetase	DSKHEELMLGDPCLDKL,TGQEYKP GNPSAAAVQTVSTK,QYINKDSKHEEL MLGDPCLK	SQSGSLSSGGAGEGQGPK,DQV DSAVQELLQLK,VIDPVAPR,VAVQ GDVVR,SSSNTVESTSLYNK,VSE TVAFTDVNSILR,VTEAVECLLSLK ,LNQWCNVVR,GDVSISVEEGKEN LLR,FAGGDYTTTIEAFISASGR,VL EDIQLNLFTR,VAAQGEVVR,YNV YPTYDFACPIVDSIEGVTHALR,AA LLNQHYQVNFK,KEENLAEWYSQ VITK,LNLNNTVLSK,FYTLFGR,TG QEYKPGNPSAAAVQTVSTK,AIQ GATSHHLGQNFSSK,VACQGEVVR ,VYEELLAIPVVR,SCQFVAVR	

IPI00890139.1	Q3UIS9	Eps151	epidermal growth factor receptor pathway substrate 15, related isoform a	ALLFSNNSQELHPDPFQAEDPFK,LDP FESSDPFSSSSISSK,TDLDLGYYVSG QEVK,TSEVQELQNDLDRETSSLQELE AQK,GTPIPDSSSTLASGEFTGVK,FDG IFESLLPVNGLLSGDK,ELDDISQEIAQL QR	
IPI00460558.3	Q6PH08	Erc2	Isoform 1 of ERC protein 2		KEECNK,KIAELESLTR
IPI00221540.1	Q8BFZ9	Erlin2	Erlin-2		LLIAAQK,PNIPEAIRR,GGALLTSTS GPGFHLMLPFITSYK
IPI00118832.1	P57759	Erp29	Endoplasmic reticulum protein ERp29	SLNILTAFR,ESYPVFYLFRLAENSASS EELLVAEVGISDYGDGK,WASQYLKIMG KILDQGEDFPASEMAR,GALPLDVTVF YK	
IPI00109142.4	Q9R0P3	Esd	S-formylglutathione hydrolase		SVSAFAPICNPVLCSWGK,SGYQQA ASEHGLVVIAPDTSPPR,KIPVVFR,VF EHSSVELK
IPI00128450.1	Q3U7R1	Esy1	Isoform 1 of Extended synaptotagmin-1		LLAETVAPAVR,LLVPLVPLDQDVAQ LR
IPI00312468.5	Q8BWW3	Etf1	Eukaryotic peptide chain release factor subunit 1	FTVDLPK,YVLHCQGTEEEK,LVDI SYGGENGFNQAIELSTEVLSNVK, FGATLEIVTDK,VNVAGLVLAGSA DFK,LSVLGAITSVQQR,FGFIVIDG SGALFGTLQGNTR	GFGGIGGILR,YVLHCQGTEEEK,FH TEALTALLSDDSK,SQEGSQFVK,LS
IPI00116753.4	Q99LC5	Etf1	Electron transfer flavoprotein subunit alpha, mitochondrial	DPEAPIFQVADYGVADLDFK,RAA SLLR,GLLPEELTPLILETQK,TIVAI NKDPEAPIFQVADYGVADLDFK	VLVAQHDAYK,LLYDLADQLHAAVG ASR,IVAPELYIAGVISGAIQHLGAMK ,LNVAPVSDIIEIK,LGGEVSVCLVAGT K,GLLPEELTPLILETQK
IPI00411164.4		Etf4	enhancer trap locus 4	VVTLKDVEDGAFLLR,DCGASLPHMA QEVSPRLLVLDEVPPAPEPPTSISPA SRK,SSSLPSASGDSSNLPNAPATK,G TDASQAAQYVAMEK,TQDQDVPVTGY GQVVLR,SLGVLYLQYGDETQ,TAVQV LSSGEVHDIVSQK,DVEDGAFLLR,SMT DVL TMLR,QGFAYSTTTIPK,VSFSSSG LNSLEGEINK,SIPNLEMPASSPVSK, GDAAGDKLELSESPNSEQELDK,KP VIII FDEPMDIR	
IPI00467271.2	Q8K1G2	Evc2	Limbin		KMAAAFK,QVSAILR,SACVQILESH R
IPI00122831.5	Q3U9D6	Exoc6	exocyst complex component 6	STNLLLTRILSSCLLNLR,EVIIQTEDIIR CRIQQR	
IPI00468525.4	Q61188	Ezh2	Isoform ENX-1A of Histone-lysine N-methyltransferase EZH2	IFEAISSMFPDK,QPCDSSCPCVIAQNF CEK,NTETALDNKPCGPGQCYQHLEGA K	

IPI00387253.3	Q8C263	F630043A04Rik	Spindle and kinetochore-associated protein 3	TDLVSIIDYPLSKPNSSSTDLEIK,VTAIP EDILQMITK,YIISQVPANPPQTAASLK, YIISQVPANPPQTAASLKEER	
IPI00230124.5	P11404	Fabp3	Fatty acid-binding protein, heart		LILTLTHGSVVSTR,SLGVGFATR LILTLTHGSVVSTR,SLGVGFATR,PT TIIEK
IPI00108791.1	P54731	Faf1	FAS-associated factor 1		LQIVFDFVASK,SLLEVNLFPPQETL FLQAK
IPI00109611.1	Q9D6U8	Fam162a	UPF0389 protein FAM162A		ILLWSGR,RHESLTSNLER
IPI00808550.1	Q5XG69	Fam169a	UPF0611 protein FAM169A	SQSEEQSEASSEHLEQFTQSAEK,FQ DSEFSSSQGEDENVAK,TLLGSSDNV ATVSNIEK	VVLYVLNR,DLGLHMLEDFVDSFT EDALGLR TLLGSSDNVATVSNIEK,KGEAVGFY SVK
IPI00331260.1	Q91WE2	Fam192a	NEFA-interacting nuclear protein NIP30	GLDEDETNFLDEVSR,MDGEDDSNLVI K	
IPI00122015.1	Q921M7	Fam49b	Protein FAM49B		AWGAVVPLVGK,DQPPNSVEGLLN ALR
IPI00322922.4	Q9WV03	Fam50a	Protein FAM50A	EDLIIPHHHSFYDFIVTK,FSAHYDAVEA ELK,SGPLFNFDVHDDVR,SSTVGLVTL NDMK	
IPI00172255.1	Q9WTJ8	Fam50b	Protein FAM50B	FSAHYDAVEAELK,ISNLSFTLDEEEGD QEDSR,SSTVGLVTLNDMK	
IPI00109033.3	Q9CWE0	Fam54b	Isoform 1 of Protein FAM54B	ASSFADMMGILK,EEDPAVLISEVLR,S LLKEEDPAVLISEVLR	
IPI00227516.4	Q148V8	Fam83h	Protein FAM83H	SSLIFASQAEGAVGTAAATTEK,HPGA ASLTAAQLLDTLGGTDR,ILFAQSEPLV PSAGALAR	
IPI00263874.3	Q8C0C7	Farsa	Phenylalanyl-tRNA synthetase alpha chain		SIPLEGLVQSELMHLPSPGK,LEVAD GGLSAELATQLGVEHQAVGVAVK
IPI00322828.1	Q9WUA2	Farsb	Phenylalanyl-tRNA synthetase beta chain		VRPFAVAVLR,YDLLCLEGLAR,T PGFEIHHGLLDR,LVITEETAK,ALV AIGTHDLDTLSGPFITYTAK,LFEIS DVVVK,LGVLHPDVITK,DLLFQAL GR,AQGASDVVLYK TAEFQVAR,LHQNICR,LGVLHPDVIT K,TLLPGLLK

IPI00113223.2	P19096	Fasn	Fatty acid synthase	<p>VAASVDLITK,AGLYGLPK,LSVPT YGLQCTQAAPLDSIPNLAAYIDCI K,NVTFHGILLDALFEEANDSWR,F DASFFGVHPK,PLFLVHPIEGSTT VFHSLAAK,EEEEPEAVLPGAQPTL ISAISK,VLEALLPLK,LPESENLQE FWANLIGGVDMVTDDDDRR,LLAA ACQLQLNGNLQLELGEALAQER, FPQLDDTSFANSR,LDPGSPELQ QVLK,LGPVGGVFNLAMVLR,VSD LLLSTDER,ALHLVGLK,SLGLSLE ETPVVFENVSFHQATILPK,LLEAS HAFEVSDTGNIIVSGK,SYIITGGL GGFGL ELAR,DGVVKPLK,LTQGE VYK,TGTVALEVR,GTNTGVVWG VSGSEASEALSR,VTAIYIDPATHR ,ELSF AAVSFYHK,EAVLAAYWR,G PSIALDTACSSLLALQNAQAIR, DNLEFFLTNLGK,ALIAEATK,LQV VDRPLPVR,TLEAVQDILLEQGR,L FDHPEVPTPPESASVSR,VYLWE DPNSK,VFTTVGSAEK,DHKDNLE FFLTNLGK,GETVLIHSGSGGVGQ AAISIALSLGCR,AAMLGQEDPPQ HGLPR,VYATILNAGTNTDGSK,G GNVGINSFGFGGSNVHVILQPNT R,EQTAHAFVNVLTR,ISSCMEVL DLFLNQPHAVLSSFVLAEK,VAEV LAGEGHLYSR,RVYATILNAGTNT DGSK,TGGLAFHSYFMEGIAPTLL QALK,RQQEQLVPTLEK,SEAVVA VLLTK,AIPQEKPIFLSVEDTSFQW VDSLK,LSFFDFK,AVAHILGIR,H FQLEQDKPK,EGGFLLVHTVLK,A QVEDAFR,SLCAFR,LLLPEDPLIS GLLNSQALK,VIFPGTYLCLVWK, DGAWGAFR,LSPDAIPGK,DTSFE QHVLLHTGGK,GYTVLGV EGR,SF YGTALFLCR,ACVDTALENLSTLK, GVDI VLNLAFFK VLSL EHGVM</p>	<p>WLSTSIPEAQWQSSLAR,LLLPEDP LISGLLNSQALK,LDPGSPELQQVLK ,LGPVGGVFNLAMVLR,YHGNVTLL R,CILLSNLSNTSHAPK,ALHLVGLK,I SSCMEVLDLFLNQPHAVLSSFVLAE KK,ACVDTALENLSTLK,SGECAAL VGGINLLKPNQSVQFMK,LSVPTYG LQCTQAAPLDSIPNLAAYIDCIK,LT QGEVYK,EEEEPEAVLPGAQPTLISAI SK,SDEAVKPLGVK,VLEALLPLK,TL LESGLESINIHSLSAEPR,GHALG ETLACLPSEVQPAPSLLSQEEWESL FSR,VSVHIIEGDHR,LQVVDRLPV R,AVAHILGIR,HFQLEQDKPK,VHLT GINVNPNALFPPVEFPAPR,LFDHPE VTPPPESASVSR,VQEVQQVSTNK</p>
IPI00114860.4	Q71FD7	Fblim1	Filamin-binding LIM protein 1	<p>SLISDLEQLHLPPPPPPPPQAPSK,VA SSVFITLAPRR,ARPWEMLPTK,FAPV CSICENPIIPR,PSEEELPPPPEPVTLF ER,DGRPLCEPCYQDTLEK</p>	<p>SLISDLEQLHLPPPPPPPPQAPSK, FAPVCSICENPIIPR</p>
IPI00420711.1	Q6PB97	Fbxl19	Isoform 1 of F-box/LRR-repeat protein 19		<p>ELCVCMR,GADPGSPGLLPPR</p>
IPI00624157.2		Fcgbp	Fc fragment of IgG binding protein		<p>GCVLDVCLGGGSK,ISVINGGSK</p>
IPI00120457.1	Q920E5	Fdps	Farnesyl pyrophosphate synthetase	<p>ELGHPEIGDAIAR,VGTDIQDNK,G LTVVQAFQELVEPK</p>	<p>VGTDIQDNK,GLTVVQAFQELVEPK, RGQICWYQK</p>
IPI00410836.1	Q8C5X6	Fen1	Putative uncharacterized protein	<p>QLQQAQEAGMEEVEK,EAQQLFLEP EVLDPESVELK,FMCGEKQFSEER</p>	

IPI00276222.1	Q8CIB5	Fermt2	Fermitin family homolog 2		PQALLDK,TSTILGDITSIPELADYIK
IPI00129928.2	P97807	Fh1	Isoform Mitochondrial of Fumarate hydratase, mitochondrial		VAALTGLPFVTAPNK,ETAIELGYLT AEQFDEWVKPK,NVLHSAR,VLLPG LQK,MPIPVIAFGILK
IPI00331030.3	Q8BPY9	Fign1	Fidgetin-like protein 1	TSTGLNMFLSNLSCVPSGCENPQER, GILLFGPPGTGK	
IPI00467002.4	Q9WTJ4	Fiz1	Fit3-interacting zinc finger protein 1	DFNAPALLER,GFITLSNLSR	
IPI00126000.1	Q62446	Fkbp3	FK506-binding protein 3	SEQLPK,LEIEPEWAYGK,LSDDKPK,N AKPLSFK,LLGNIK,IPPNTK,ARLEIEPE WAYGK,FKGTETISK,FLQDHGSDSFLA EHK	
IPI00230139.5	P30416	Fkbp4	FK506-binding protein 4	RGEAHLAVNDFDLAR,GEHSIVYLKPS YAFGSVGK,IPPNATLVFEVELFEFK,V FVHYTGWLLDGTKFDSSLDRK,VFVHY TGWLLDGTK,IPPNATLVFEVELFEFKG EDL TEEEDGGIIR,GEGYARPNDGAMV EVALEGYHKDR,VFVHYTGWLLDGTK FDSSLDR,IVSWLEYESSFSGEEMQK, PNDGAMVEVALEGYHK,DKFSFDLGK GEVIK,GEAHLAVNDFDLAR,AKESWE MSSAEKLEQSNIVK,VGEVCHITCKPE YAYGAAGSPPK,GEDL TEEEDGGIIR,A AENGAQSAPLPLEGVDISP,K,ESWEM SSAEKLEQSNIVK,AAENGAQSAPLPL EGVDISPQDEGVK,GEGYARPNDG AMVEVALEGYHK,TRGEGYARPNDGA MVEVALEGYHK	RGEAHLAVNDFDLAR,AEVAAGD HPTDAEMK,GEHSIVYLKPSYAFG SVGK,AWDIAVATMK,DKFSFDLG K,FQIPPHAELR,VFVHYTGWLLD FDSSLDR,TQLAVCQQR,VGEVCHIT GTK,LEQSNIVK,VLQLYPSNK,VK CKPEYAYGAAGSPPK,FSFDLGK,A AEVAAGDHPTDAEMKGER,VKAE AENGAQSAPLPLEGVDISP,K,FQIPP VAAGDHPTDAEMK,LQAFSAIES HAELR,LEQSNIVK,LASHLNLAMCH CNK,TQLAVCQQR,VGEVCHITCK LK PEYAYGAAGSPPK,GEDL TEEED GGIIR,AAENGAQSAPLPLEGVDIS PK,LASHLNLAMCHLK
IPI00406870.3	Q2VIS4	Flg2	Filaggrin-2	QLYTCNESIDSYHLSSDSNNR,NPDDP DTVDVIMHMLDR	

IPI00131138.10 Q8BTM8 Flna

Isoform 1 of Filamin-A

LIALLEVLSQK,GAGTGGLGLAVEGPS
EAK,SAGQGEVLVYVEDPAGHQEEAK,
FGGEHVPNSPFQVTALAGDQPTVQTP
LR,IANLQTDLSDGLR,NGQHVASSPIP
VVISQSEIGDASR

YIPVQQGPVGVNVTYGGDHIPK,V
QVQDNEGCSVEATVK,LDVQFSG
LAK,SPFSVGVSPSLDLSK,VGSA
ADIPINISSETDLSLLTATVVPPSGR,
AFGPGLQGGNAGSPAR,ALTQTG
GPHVK,VTAQQGGLEPSGNIANK,
AWGPGLQGGNAGSPAR,ALTQTG
YVEDPAGHQEEAK,VHGPPIQSG
TTNKPKNK,DKGEYTLVVK,EEGPY
EVEVYDGVVPGSPFPLEAVAP
TKPSK,VATVPQHATSGPGPADV
SK,YWPQEAAGEYAVHVCNSED
R,KGEITGEVR,GIEPTGNMVK,FG
GEHVPNSPFQVTALAGDQPTVQ
TPLR,YGGQPVNPFPSK,SPFEVY
VDK,AEFTVETR,DAGEGGLSLAIE
GPSK,TFSVWYVPEVTGTHK,LI
ALLEVLSQK,LQVEPAVDTSGVQCY
GPGIEGQGVFR,TTYFEIFTAGAG
MGEVEVVIQDPTGQK,VKVEPSH
DASK,TGAVNKPAAFTVDAK,IQ
QNTFTR,IVSPSGAAVPCK,NGHV
GISFVPK,LTVSSLQESGLK,IANL
QTDLSDGLR,KIQQNTFTR,GAGT
GGLGLAVEGPSEAK,TGVELGKP
THFTVNAK,CSYQPTMEGVHTVH
VTFAGVPIPR,GKLDVQFSGLAK,
DAGEGLLAVQITDPEGKPK,VNVG
AGSHPNK,SADFVVEAIGDDVGTL
GFSVEGPSQAK,DVDIIDHHDNTY
TVK,AGVAPLQVK,VHSPSGALEE
CYVTEIDQDK,FTVETR,GTVEPQL
EAR,GLVEPVDVVDNADGTQTVN
YVPSR,VTVLFAGQHIK,VAQPSI
TDNK,LLGWIQNK,VPVHDVTDAS
K,LYSVSYLLK,LPQLPITNFSR,RL
TVSSLQESGLK,AEISFEDR,ETGE
HLVHVK,AEAGVPAEFGIWTR,VD
VGKDQEFQVK,VEPGLGADNSVV
R,IVSNHSI HFTSSVFVDSI TK A

YIPVQQGPVGVNVTYGGDHIPK,TG
VAVNKPAAFTVDAK,VQVQDNEG
CSVEATVK,ASGPGLNTTGVASL
PVEFTIDAK,YNDQHIPGSPFTAR,
SPFSVGVSPSLDLSK,IVSPSGAA
VPCK,VGSAADIPINISSETDLSLL
TATVVPPSGR,LTVSSLQESGLK,
IANLQTDLSDGLR,YGGPYHIGGS
PFK,AYVQKSNFTVDCSKAGNML
LVGVHGPR,LKPGAPLRPK,GAGT
GGLGLAVEGPSEAK,LLGWIQNK
LPQLPITNFSR,AWGPGLQGGNAG
SPAR,ALTQTGPHVK,VTAQQGLE
PSGNIANK,AWGPGLQGGNAGSPAR,
ALTQTGPHVK,VTAQQGGLEPSGNI
ANK,AWGPGLQGGNAGSPAR,ALTQ
TGPHVK,VTAQQGGLEPSGNIANK,
AWGPGLQGGNAGSPAR,ALTQTG
YVEDPAGHQEEAK,VHGPPIQSG
TTNKPKNK,DKGEYTLVVK,EEGPY
EVEVYDGVVPGSPFPLEAVAP
TKPSK,VATVPQHATSGPGPADV
SK,YWPQEAAGEYAVHVCNSED
R,KGEITGEVR,GIEPTGNMVK,FG
GEHVPNSPFQVTALAGDQPTVQ
TPLR,YGGQPVNPFPSK,SPFEVY
VDK,AEFTVETR,DAGEGGLSLAIE
GPSK,TFSVWYVPEVTGTHK,LI
ALLEVLSQK,LQVEPAVDTSGVQCY
GPGIEGQGVFR,TTYFEIFTAGAG
MGEVEVVIQDPTGQK,VKVEPSH
DASK,TGAVNKPAAFTVDAK,IQ
QNTFTR,IVSPSGAAVPCK,NGHV
GISFVPK,LTVSSLQESGLK,IANL
QTDLSDGLR,KIQQNTFTR,GAGT
GGLGLAVEGPSEAK,TGVELGKP
THFTVNAK,CSYQPTMEGVHTVH
VTFAGVPIPR,GKLDVQFSGLAK,
DAGEGLLAVQITDPEGKPK,VNVG
AGSHPNK,SADFVVEAIGDDVGTL
GFSVEGPSQAK,DVDIIDHHDNTY
TVK,AGVAPLQVK,VHSPSGALEE
CYVTEIDQDK,FTVETR,GTVEPQL
EAR,GLVEPVDVVDNADGTQTVN
YVPSR,VTVLFAGQHIK,VAQPSI
TDNK,LLGWIQNK,VPVHDVTDAS
K,LYSVSYLLK,LPQLPITNFSR,RL
TVSSLQESGLK,AEISFEDR,ETGE
HLVHVK,AEAGVPAEFGIWTR,VD
VGKDQEFQVK,VEPGLGADNSVV
R,IVSNHSI HFTSSVFVDSI TK A
GGAHK

IPI00663627.1	Q80X90	Flnb	Filamin-B	<p>YGGPNHISR,PGTYVIYVR,VIVLFA GQHISK,DLDIIDNYDYSHTVK,HTI AVVWGGVNIPHSPYR,NSVELLV EDR,GAGIGGLGITVEGPSESK,S PFTVGVAAPLDLSK,VEPAIDTSGI K,APAVATVGSICDLNLK,VSFAGD AIPK,TGEEVGFVDDAK,SNVFTVV TR,GIEPTGNMVK,SADFVVESIGS EVGTLGFAIEGPSQAK,GFLDGVY SFEYYPSTPGK,LKPGAPLKP,K,G FHVVEVYDDVPIPNSPFK,YADE EIPR,LVSPGSANETSSILVESVTR ,PLTQVGGDHIK,LIALLEVLVSQK,V FGPGVER,LDVTILSPSR,LGSAAD FLLDISETDLSTLTASIK,FTVDTIS AGQGDVMVFVEDPEGNKEEAR, VYQQGLSEGR,AHGPGLGGLV GKPAEFTIDTK,LENVSVALEFLDH ESIK,AGLAPLEVR,VKAEGPGLSK ,VAVTEGCQPSR,IAGPGLSSCVR, IQQNTFTR,AFGPGIEGK,DAGYG GISLAVEGPSK,VNQPASFAIR,KI QQNTFTR,DAGEGLLAVQITDQE GKPQR,EATTDFTVDSRPLTQVG GDHIK,VLSDDEEDVDFDIHNAND TFTVK,VNIGQQGSHPPQK,EAGAGG LSIAVEGPSK,IGNLQTDLSGDLR, KGEITGTVHMPSGK,VHAQGPGL K,FADEHVPGSPFTVK,LLGWIQN K,VLFASQEIPASPFR,VEVGKDQ EFAIDTNGAGGQGK,YSVAVTWG GHHIPK,VVASGPGLEHGK,SPFE VNVDK,ANEPHFVTDCTEAGEG DVSVGK,VKVDPSHDASK,TATFT IVTEDAGEGLDLAIEGPSK,AAG SGELGVTVK</p>	<p>VAVTEGCQPSR,VGEPGILCVDCSE AGPGTLGLEAVSDSGAK,AWGPGL HGGIVGR,GAGIGGLGITVEGPSES K,SGCTINNPAAEFIVDPK,SPFTVGVA APLDLSK,GAGTGGLGLTVEGPCEA K,DGTCTVTYLPGLDYSILVK,GP GLETTGNIANKPTYFDIYTAGAGVG DIGIEVEDPQGK,APAVATVGSICDL NLK,VSFAGDAIPK,AGGPGLER,LP NNHIGISFIPR,VNIGQQGSHPPQK,IPYL PITNFNQNWQDGK,IGNLQTDLSG LR,KGEITGTVHMPSGK,LVSPGSAN ETSSILVESVTR,LLGWIQNK,PLTQV GGDHIK,AEVSIQNNK,VSFYFTVPG VYIVSTK,VLFASQEIPASPFR,GLVE PVNVVDNGDGTHTVYTPSQEGPY IVSVK,VTASGPGLSAYGVPASLPVE FAIDAR,GSHIPESPLQFYVNYPNNG SVSAYGPGLVYGVANK,VVASGPGL EHGK,AQITNPSGASTECFVK,PGAP LKPK,WCNEHLK,AAGSGELGVTVK</p>
IPI00664670.4		FlnC	Isoform 1 of Filamin-C	<p>LIALLEVLVSQK,EAGAGGLSIAVEG PSK,IQQNTFTR,LENVSVALEFLE R,LLGWIQNK,LTVTSLQETGLK</p>	<p>CTYRPVMEGPHTVHVAFAGAPITR, SPFVVNVAPPLDLSK,HVTNSPFK,V PQLPITNFNR,WCNEHLK,HIGISFTP K,GAGGQQQLDVR,LLGWIQNK,RLT DLQR,GAGTGGLGLTVEGPCEAK,A PLQVAVLGPTGVAEPVEVR,GQHVP GSPFQFTVGPLGEGGAHK</p>
IPI00124497.3	P35969	Flt1	Vascular endothelial growth factor receptor 1		KTEVLVR,RGFIANATYK
IPI00270737.5	Q6AXB7	Fmr1	Fragile X mental retardation syndrome 1 homolog	SFLEFAEDVIQVPR,EDLMGLAIGTHGA NIQQAR	TADGSLQSASSEGSR,LQIDEQLR ,SFLEFAEDVIQVPR

IPI00652813.1	Q3UHL6	Fn1	Putative uncharacterized protein		YSFCTDHAVLVQTR,GVTYNIIVEA LQNQR,LGVRPSQGGEAPR,EVT SDSGSIVVSGLTPGVEYTYTIQVL R,GLAFTDVDVDSIK,NLQPGSEY TVTLVAVK,YIVNVYQISEEGK,VV TPLSPPTNLHLEANPDTGVLTVS WER	
IPI00876259.1		Fnbp1	Formin binding protein 1	FEAWLAEVEGR,ADYSLILQR		
IPI00762582.3		Foxp4	Isoform 1 of Forkhead box protein P4	RPGPPLGAPNPSTVGPPEDR,QQEQL HLQLLTQQQAGK		
IPI00114365.1	P48760	Fpgs	Isoform Mitochondrial of Folypolyglutamate synthase, mitochondrial		GGIFKPGVPAFTVVQPEGPLAVLR, PVVCGVSSLGIDHTSLLGDTVEK	
IPI00311968.1	P97376	Frg1	Protein FRG1	MALLASNSCFIRCNEAGDIEAK,GAYIH ALDNLGFTLGAPHR,YLGINS DGLVVG R		
IPI00353563.4	Q61553	Fscn1	Fascin	DVPWGVDSLITLAFQDQR,PEPATGFT LEFR,NGQLAASVETAGDSELFLMK,LV ARPEPATGFTLEFR,SSYDVFQLEFND GAYNIK	DVPWGVDSLITLAFQDQR,KVTG TLDANR,VGKDELFALEQSCAQV VLQAANER,VTGTL DANR,FLVVA HDDGR,LSCFAQSVSPA EK,LVAR PEPATGFTLEFR,LINRPIIVFR	GEHGFICR,WLQSEAGR,KVTGT LDANR,VTGTL DANR,YAHL SAR,LIN RPIIVFR,VNASASSLK
IPI00750014.4		Fsip2	PREDICTED: similar to fibrous sheath- interacting protein 2		LEHFASGSVVNVGNLNDENKK,SSK PNQTLPLYNTLLPYTFLEDMIR,VAS LIVDGVSSVPSR,EFISDLK	
IPI00762203.2	P29391	Ftl1	Ferritin light chain 1	DDVALEGVGHFFR,ALFQDVQKPSQD EWGK,ASYTYLSL GFFFDR,NLNQALL DLHALGSAR,VAGPQAQTGAPQGS GEYL FER,QNYSTEVEAAVNR,TQEAM EAALAMEK	NLNQALLDLHALGSAR,LVNLHLR,M GNHLTLNR	
IPI00625129.3		Ftl2	ferritin light chain 2	DDVALEGVGHFFR,ALFQDVQKPSQD EWGK,ASYTYLSL GFFFDR,TQEAMEA ALALEK,NLNQALLDLHALGSAR,QNYS TEVEAAVNR,VAGPQAQTGAPQGS GEYL FER	NLNQALLDLHALGSAR,LVNLHLR,M GNHLTLNR	
IPI00119632.3	Q9DBE9	Ftsj3	Putative rRNA methyltransferase 3	ASEISIDDEELAQHPATTEDIR,AEGYA EGDLTLYHR	FYHLAK,ILDPEGLALGAVIASSK,AL LDLCAAPGGWLQVAAK	
IPI00123292.5	Q3UUU2	Fubp1	Putative uncharacterized protein	IAQITGPPDR,SISQQSGAR,GRPAPGF HHGDGPGNAVQEIMIPASK,IGGNEG DVPIPR,IQFKPDDGTT PDR,VPDGMV GFIIGR,RPLEDGDQPD AK,GQGNWNM GPPGGLQEFNFIVPTGK,MGQAVPAP AGAPPGGQPDYSAAWAEYYR,AGLVI GK	IAQITGPPDR,IGGNEGIDVPIPR,I QNDAGVR,VPDGMVGFIIGR,IQF KPDDGTT PDR,LLDQIVEK,VVFG DSVFLIMFSGI,RPLEDGDQPD AK, FAVGIVIGR,IQIAPDSGGLPER	IGGNEGIDVPIPR,IQNDAGVR,MVMI QDGPQNTGADKPLR,IQIAPDSGGL PER

IPI00379513.6	Q3TIX6	Fubp3	far upstream element (FUSE) binding protein 3	IDSIPHLNNSSTPLVDPSVYGYGVQK,IIN ELILTAQER,ALDDGVGNQLGALVHQR, NPGPFHNDMDGNSTIQELLIPASK	EMVLEIIR,IQNDAGVR,FVVGIVGR,IINELILTAQER,ALDDGVGNQL GALVHQR,AGGGSIEVSVPR,IQF KPDDGISPER	IQIASESSGIPERPCVLTGTPESIEQ AK,IDSIPHLNNSSTPLVDPSVYGYGV QK,CQHAARIINELILTAQEREILGGL TVTR,IQNDAGVR,SINQQSGAHVEL QR,ALDDGVGNQLGALVHQR,AGG GSIEVSVPR
IPI00117063.1	P56959	Fus	RNA-binding protein FUS	EFGSNPIK,HDSEQDNSDNNTIFVQGL GENVTIESVADYFK,TGQPMINLYTDR, AADWFDGK,LKGEATVSFDDPPSAK	APKPDGPGGGPGGSHMGGNYG DDR,LKGEATVSFDDPPSAK	APKPDGPGGGPGGSHMGGNYGD DR,AAIDWFDGK,LKGEATVSFDDP PSAK,GEATVSFDDPPSAK
IPI00122521.1	Q61584	Fxr1	Isoform E of Fragile X mental retardation syndrome-related protein 1	RGPNYTSGYGTNSELSNPSETESER,I FYHPETTQLMILSASEATVK,KEISEGD EVEVYSR,EDLMGLAIGTHGSNIQQAR, KVPGVTAIELDEDTGTFR,IFYHPETTQ LMILSASEATVKR,GFLEFVEDFIQVPR, EISEGDEVEVYSR,DPDSNPYSLLDNT ESDQTADTDASESHHSTNR	AINGPTSASGDEIPK,LQIDEQLR, DVHEDSLTVVFENNWQPER,ESI GNVQVLLLEYHAIYLK,RGPNYTSG YGTNSELSNPSETESER,LRPVN QNK,EISEGDEVEVYSR,VIQEIVD K,IFYHPETTQLMILSASEATVK,D VIEEHGPSEK,IYGESAEAVKK,IE GDNENKLPR,IYGESAEAVK,KVP GVTAIELDEDTGTFR,GFLEFVED FIQVPR	
IPI00126389.2	Q6P5B5	Fxr2	Putative uncharacterized protein	TVMDGGLES DGPNTENGLEDES RP QR,KVPGVTAIELGEETCTFR,EDLMGL AIGTHGANIQQAR,ENISNAQALLEYHL SYLQEVEQLR	TKPSEDSL SGQK,LQIDEQLR,VIQ EIVDK,DVHEDSVTIFFENNWQSE R,LRPVNPSP LATAK,ENISNAQALL EYHLSYLQEVEQLR,AGYTTDESS SSSLHTR	VEVYSR,IYGETPEACR,AGYTTDES SSSLHTR
IPI00130095.1	P97855	G3bp1	Ras GTPase-activating protein-binding protein 1	DFFQNFNGNVVELR,RFMQTFVLAPEG SVANK,LPNFGFVVFDSEPVQK,FYV HNDIFR,FMQTFVLAPEGSVANK,NLPP SGAVPVTGTPPHVVK,TFSWASVTSK, NSSYAHGGLDSNGKPADAVYGQK,HP DSHQLFIGNLPHEVDK,STSPAPADVA PAQEDLR,QYYTLLNQAPDMLHR	DFFQNFNGNVVELR,LPNFGFVVF DDSEPVQK,FYVHNDIFR,NLPPS GAVPVTGTPPHVVK,HPDSHQLFI GNLPHEVDKSELK,TFSWASVTS K,HPDSHQLFIGNLPHEVDK,STS PAPADVAPAQEDLR,EAGEPGDV EPR,SELKDFQNFNGNVVELR,FM QTFVLAPEGSVANK,NSSYAHGG LDSNGKPADAVYGQK,VLSNRPI MFR	DFFQNFNGNVVELR,PESKPDSQIPP QRPQR,FYVHNDIFR,NLPPSGAVPV TGTPPHVVK,TFSWASVTSK,NSSY AHGGLDSNGKPADAVYGQK,VLSN RPIMFR,QYYTLLNQAPDMLHR
IPI00124245.1	P97379	G3bp2	Isoform A of Ras GTPase-activating protein-binding protein 2	YPDSHQLFVGNLPHDIDENELK,LPNF GFVVFDDSEPVQR	HLEEEEEK,NSSYVHGGVDASGK PQEAVYQNDIHHK,TEELKPQV EEK,VDAKPEVQSQPPR,LPNFGF VVFDSEPVQR	APEYLHR,VDAKPEVQSQPPR,NSS YVHGGVDASGK,VLSLNFSECHTK
IPI00111960.2	P70699	Gaa	Lysosomal alpha-glucosidase			KPLCSNSVVGACTLISLTTAVILGHL MLR,QLLWGPALLITPVLEPGK
IPI00406794.2	Q9QYY0	Gab1	GRB2-associated-binding protein 1	IFYLVADSEEDMNK,LTSVSGESSLYNL PR,QVEYLDLDDSGK		
IPI00265025.5	Q9JIA6	Galk1	galactokinase 1		AEHSFAGVPCGIMDQLIALLGQK, GYALLIDCR,HVVSEIR	

IPI00115679.1	Q8BHN3-2	Ganab	Isoform 2 of Neutral alpha-glucosidase AB		ERPFVLSR,ALLDTLQLGPDALT HLIHEVTK,PAAVVLQTK,LSFQHD PETSVLILR,VLLVLELQGLQK	IILTAQPFR,LVAIVDPHIK,NHGLYVK, HHGPOQLYLPVTLSSIPVFQR,PAAV VLQTK,SIRPGLSPYR
IPI00110931.1	Q9CY66	Gar1	Isoform 1 of H/ACA ribonucleoprotein complex subunit 1	VDEIFGQLR,VPYFNAPVYLENK,FQDQ GPPER		
IPI00112555.3	Q9CZD3	Gars	Glycyl-tRNA synthetase	TLHVEEVVPSVIEPSFGLGR,LGDAVE QGVINNSVLGYFIGR,LPFAAAQIGNSF R	KSEMESVLAQLDNYGQQELADLF VNYNVK,TFFSFPVAVPAPFK,IYLY LTK,DVKNGECFRADHLLK,SEME SVLAQLDNYGQQELADLFVNYNV K,FQSNVADLCLYLYSAK,GEFTIET EGK,LPFAAAQIGNSF,SCYDLS CHAR,APQVDVDR,TSYGWIEIVG CADR,TLHVEEVVPSVIEPSFGLG R,LGDAVEQGVINNSVLGYFIGR,T VNVVQFEPNK	TFFSFPVAVPAPFK,APQVDVDR,TLH VEEVVPSVIEPSFGLGR,TVNVVQF EPNK,NNIIQAWR,LPFAAAQIGNSF R
IPI00230612.3	Q3TGI3	Gart	phosphoribosylglycinamide formyltransferase	VLTVTAVQENLMSALAEARK,VLTVTA VQENLMSALAEAR	VLEFNCR,ITEGDAVIGVASSGLH SNGFSLVR,RGDTVATLSER,KIQ PLAK,LAQSPQVK,AFTNPEDACS FITSANFPALVVK,SSSHIVLVISNK ,IELVVVGPEAPLAAGIVGDLTSAG VR,AAGFKDPLLASGTDGVTGK,S DLYEVMQSTLDGLLSASLPVWLE NHSAVTVVMASK,SNFPVQQK,AF AHITGGGLENIPR,VLTVTAVQEN LMSALAEAR,PGCSVDLGGFAGL FDLK,GVEITGFPEAQALGLQVFH AGTALK,VAVLISGTGSNLQALIDS TR,TFNCGIGAALVYSK,DQAEQV LHDVR,VLVIGSGGR,IFPAALQLV ASGAVQLR,AAVAGLDR,FGDPEC QVILPLLK	ITEGDAVIGVASSGLHSNGFSLVR,R GDTVATLSER,HEIPTAQWR,LAQSP QVK,AFTNPEDACSFITSANFPALVV K,IELVVVGPEAPLAAGIVGDLTSAG VR,IAQLCNK,ISNAAVSVNDHSALA QFCK,SNFPVQQK,AFAHITGGGELLE NIPR,VLTVTAVQENLMSALAEAR,IY SHSLLPIIR,AVAFQLR,GVEITGFPE AQALGLQVFHAGTALK,ILSGPFVVR, QVLVAPGNAGTACAGK,TFNCGIGA ALVYSK,MLNIHPSLLPSFK,AAVAGL DR,IFPAALQLVASGAVQLR,FGDPE CQVILPLLK
IPI00625995.1		Gatad2a	p66 alpha isoform a	LQNAASATALVSR,IPGSIIPPLVR,TT EAMGTGSGEGLLGDGPVDMR,EATAQ KPTASSGSTVTTTPPLVR,TPLSTGGT LAFVSPSLAVHK		
IPI00128615.1	Q8VHR5	Gatad2b	Isoform 1 of Transcriptional repressor p66-beta	VSSPLSPSAMSADAANSQAAAK,TPVV QNAASIVQPSPAHVGGQGLSK,DLANL EVPHELPTK,LPSRPGAQGIQNMNR		

IPI00457499.5	Gcn111		GCN1 general control of amino-acid synthesis 1-like 1		LLTWVIGTGSPR,LTEVLTDSHVK,EGVLTGSPEQKEEAAGLGLVIR,QQVCIGLSEIMK,CLQNPCSDIR,LSGFWQLVVDEK,STLLEFYVK,GDTLLQALDFLPLLMQTV EK,ENKAYSFKEQIIE MELK,TLGTLVSHVTLR,LQELDGELEAALGLLDAIMAR,NPEILAIAPVLLDALTDPSR,IIIEDLLEATR,LSVADAQAEAK,GIKEEVQLTSK,VGKGEPDAAPLSAPAFSLVFPMLK,ENVNSLLPVFEEFLK,VLAFLSSVAGDALTR,RQAQQTVR,NPCGLIQYIPVLVDAFLPLLK,FSSVQLLGDLLFHISGVTGK,VLVAVLLSR,ILPEIIPILEEGLR,LVLPSELLAALEEEESWR,AIITALGVDR,AALLETLSLLLGK	VLPQLISTITASVQNPA LCLVTR,ILPEIIPILEEGLR,QQDIWNK,KNLVSLLL SMLGHDEDNTR,GPFLSLAACVMP PR,LQELDGELEAALGLLDAIMAR
IPI00122565.1	Q61598	Gdi2	Isoform 1 of Rab GDP dissociation inhibitor beta	FLVYVANFDEK,DWNVDLIPK,FDLGQDVIDFTGHSLALYR,FVSISDLFV PK,MLLFTEVTR,YIAIVSTTVETK,DLGTDSQIFISR,VPSTEAEALASSLMGLFEK	FDLGQDVIDFTGHSLALYR,FVSISDLFV PK,FLVYVANFDEKDP R,MLLFTEVTR,YIAIVSTTVETK,EIRPAL ELLEPIEQK,VIEGSFVYK,SPYLYP LYGLGELPQGFAR,VPSTEAEALASSLMGLFEK,DLGTDSQIFISR,LYSESLAR,VICILSHPIK	AYDATTHFETTCD DIK,DWNVDLIPK ,FVSISDLFV PK,FLMANGQLVK,VIEGSFVYK,EIRPALELLEPIEQK,DLGTDSQIFISR,VPSTEAEALASSLMGLFEK,LYSESLAR,LSAIYGGTYMLNKPI EEIIVQNGK,PALELLEPIEQK,VICILSHPIK
IPI00169775.6	Q6P6L6	Gemin4	Putative uncharacterized protein			KMCSLAVTNLGT HR,LSDYLEGFQEDLNTTFNQLAQSTSEQGLAK,FLAQI LTAFPALK
IPI00230283.5	Q8K0D5	Gfm1	Elongation factor G, mitochondrial		GIIDLIEER,GVQPLLDVAVLEYLPN PSEVQNYAILNQND SK,AIYFDGD FGQIVR,YNVPFLTFINK,VHFDPE SK	
IPI00338876.3	Q8R2Q4	Gfm2	Isoform 1 of Ribosome-releasing factor 2, mitochondrial		GVQPLLDVAVTTYLPSPEER,VVLGFVPLAEIMGYSTVLR,LLL PFADQHVEIPSLTAGNIALTVGLK	
IPI00278312.6	Q9Z2Z9	Gfpt2	Glucosamine--fructose-6-phosphate aminotransferase [isomerizing] 2		VIQQLEGAFALVFK,LIVIGCGTSY HAAVATR	WATHGVPNAVNSHPQR,GALTVGIT NTVGSSISR
IPI00473912.4	Q6Y7W8	Gigyf2	Isoform 1 of PERQ amino acid-rich with GYF domain-containing protein 2	LTGRGGGGGT VVGAPR,ALSSGGSIT SPPLSPALPK,MVAYLQDSALDDER,EPIPEEQEMDFR,LNMGEIETLDDY,MSD QNIIPSVTR,ADPSLLGFVSNASSER,V PFSPGPAPPPHMGELDQER,PVETAA VEAPGMSSVSTEPDDEEGLK,AALSS QQQQLALLLQQFQALK,DVGRPNFE ESGPTSVGR,IPFDLLEK,VQKEPIPEEQEMDFR	SLLEIQQEEAR,EFLPILQEEPLPP LALVPFTEEEQR,ALQQQQQQQQ QK	

IPI00470095.1	Q68FF6	Git1	ARF GTPase-activating protein GIT1	HGSGADSDYENTQSGDPLLGLEGK,E NDAVWLATQNHSTLVTER		
IPI00127267.4	Q91W43	Gldc	Glycine dehydrogenase [decarboxylating], mitochondrial		SANVEAVDVAK,ATSNICTAQALL ANMAAMFAIYHGSQGLK,VSFQP NSGAQGEYAGLATIR,AGHQLQH DLFFDTLK,LNSSSELAPITWR,EM LQALGLASIDELIEK,DVCGVLFQY PDTEGKVEDFTELVDVDR,VHNATLI LSEGLK,MEDPICENEILETLHAIA SK,TSPFLTHQVFNSYHSETNLVDR ,VEDFTELVDVDR,GYVAHEFILDTRP FK,GYVAHEFILDTR,FGVPLGYG GPHAAFFAVK,EFANIHPFVPLDQ AQQYQQLFQGLEK,YGNIDVAHL K,LFDDGTLGSLDETVTEK,NLLE NSGWVTQYTPYQPEVSQGR,GV LVELK	ATSNICTAQALLANMAAMFAIYHGS QGLK,IDDIYGDQHLVCTCPPMEVY ESPFSEQK,EFANIHPFVPLDQAQG YQQLFQGLEK
IPI00122399.1	Q61543	Glg1	Golgi apparatus protein 1		ADIFVDPVLHTACALDIK,FCENTQ AGEGR,VAELSSDDFHLDR,LNLT TDPK,LLELQYFISR,AKDDSELEG QVISCLK,MTAIFSDYR,DAHSQG EVVSCLEK,LAEEESCREDVTR,A LNEACESVIQTACK,IIQESALDYR ,RGGAGPGGTGGGWK,GEIEHHC SGLHR	
IPI00416279.3	Q9CYL5	Glpr2	Golgi-associated plant pathogenesis- related protein 1	YFPAGNIVNQFFEENVPPPKK,YFPA GNIVNQFFEENVPPPK		
IPI00321734.7	Q9CPU0	Glo1	Lactoylglutathione lyase	FSLYFLAYEDK,GLAFIQDPDGYWIEIL NPNK,DFLLQQTMLR,VLGLTLLQK	GFGHIGIAPDVYSACK,RFEELG VK,GLAFIQDPDGYWIEILNPNK,V LGLTLLQK	RFEELGVK,VLGLTLLQK
IPI00110721.5	Q9CPV4	Glod4	Isoform 1 of Glyoxalase domain- containing protein 4	LELQGIQGAVDHAAAFGR,LLDDAMEA DKSDEWFATR,SLNYWSNLLGMK		
IPI00315550.3	Q9CQM9	Glrx3	Glutaredoxin-3	TFSNWPTYQPLYVR,YEISSVPTFLFFK ,HNIQFSSFDIFSDEEVR	YEISSVPTFLFFK,LEAEAVPEVSE K,LDGAHAPELTK	YEISSVPTFLFFK,LDGAHAPELTK
IPI00169870.6	Q8K297	Git25d1	Glycosyltransferase 25 family member 1		NAAPALPATLGALEQLR,VLIALLA R	
IPI00122471.5	Q8BK35	Gltscr2	glioma tumor suppressor candidate region gene 2	AGQPEAGDGTTEISPTGAAGPEKR,S QADSGFLGLRPTSVDPALR,QLALPTS EQAATQESVFR,AGQPEAGDGTTEISP TGAAGPEK,LFFVDTGFK		
IPI00114209.1	P26443	Glud1	Glutamate dehydrogenase 1, mitochondrial	DDGSWEVIEGYR,GFIGPGIDVPAPDM STGER	YSTDVSVDEVK,NLNHVSYGR,TA AYVNAIEK	PISQGGIHGR,NLNHVSYGR,LQHG SILGFPK,HGGTIPVVPTAEFQDR,G FIGPGIDVPAPDMSTGER,IKPCNH VLSLSFPIR,YNLGLDLR,IIAEGANG PTTPEADK

IPI00123164.2		Gm10077	similar to ribosomal protein L36a	HFELGGDK, HFELGGDKK, GKDSLVAQ GK, DSLVAQGGK	HFELGGDK, LECVEPNCR	
IPI00469918.4	Q5CZY9	Gm10079	Rps16 protein	GPLQSVQVFGR, ALVAYYQK, TLQYKL LEPVLLLGK, PLEMIEPR, FAGVDIR, LLE PVLLLGKER, TLLVADPR, DILIQYDR, TL QYKLEPVLLLGKER, GGGHVAQIYAIR, LLEPVLLLGK, GGGHVAQIYAIRQSISK ALVAYYQK	GPLQSVQVFGR, ALVAYYQK, VKG GGHVAQIYAIR, KTATAVAHCK, FAGVDIR, KFGGPGAR, EIKDILIQYDR, TLLVADPR, DILIQYDR, GGGHV AQIYAIR, LLEPVLLLGK	GPLQSVQVFGR, PLEMIEPR, FAGV DIR, TLLVADPR, LLEPVLLLGK, GGG HVAQIYAIR, GGGHVAQIYAIRQSISK ALVAYYQK
IPI00473762.1		Gm10117	similar to 60S ribosomal protein L9 isoform 1	NFLGEK, DFNHINVELSLLGKK, FLDGIY VSEK, RDFNHINVELSLLGK, DELILEGN DIELVNSAALIQQATTVK, KFLDGIYVS EK, DFNHINVELSLLGK, TILSNQTVDIP ENVEITLK, SVYAHFPINVVIQENGLV EIR		
IPI00850681.1		Gm10117	similar to 60S ribosomal protein L9 isoform 2	FLDGIYVSEK, DFNHINVELSLLGKK, NF LGEK, RDFNHINVELSLLGK, DELILEGN DIELVNSAALIQQATTVK, MRTGDELI LEGNDIELVNSAALIQQATTVK, KFLD GIYVSEK, DFNHINVELSLLGK, TILSNQ TVDIPENVEITLK, SVYAHFPINVVIQEN GSLVEIR		
IPI00473521.1		Gm10119	similar to ribosomal protein S3a	LITEDVQGGK, IASDGLK, KTSYAQQHQQV R, KWQTMIEAHVDVK, VFEVSLADLQN DEVAFR, EVQTNLTK, LIPDSIGK, WQT MIEAHVDVK, GRVFEVSLADLQND EVA FR, VFEVSLADLQND EVAFRK, TSYAQ HQQVR, LMELHGGSSGK, VVDPFS K, APAMFNIR	LITEDVQGGK, KTSYAQQHQQVR, KW QTMIEAHVDVK, VFEVSLADLQND EVAFR, ACQSIYPLHDFVFR, LFCV GFTK, EVQTNLTK, NCLTNFHGM D LTR, TTDGYLLR, VFEVSLADLQND EVAFRK, TSYAQHQQVR, LMELH GEGGSSGK, ADGYEPPVQESV, V VDPFSK, APAMFNIR	LITEDVQGGK, TTDGYLLR, NCLTNFH GMDLTR, TSYAQHQQVR, LMELHGE GGSSGK, VFEVSLADLQND EVAFR, ACQSIYPLHDFVFR, APAMFNIR, LF CVGFTK, EVQTNLTK
IPI00461456.1	P62751	Gm10132	60S ribosomal protein L23a	LDHYAIKFP LTTESAMK, AYVRLAPDY DALDVANK, KEAPAPPK, LYDIDVAK, V NTLIRPDGEK, LDHYAIK, FPLTTESAM K, KIEDNNTLVFIVDVK, NKLDHYAIKFP LTTESAMK, IEDNNTLVFIVDVK, LAPDY DALDVANKIGII, LAPDYDALDVANK, KL YDIDVAK	KIEDNNTLVFIVDVK, LAPDYDALD VANK	
IPI00626233.3		Gm10164	similar to Rpl17 protein	KSAEFLHMLK, GLDVDSLVIHQVVK, YSLDPENPTK, SAEFLHMLK, NAESNA ELK, EQIVPKPEEEVAQK	GLDVDSLVIHQVVK, YSLDPEN PTK, SAEFLHMLK, NAESNAELK, EQIVPKPEEEVAQK	
IPI00606310.1		Gm10169	similar to macrophage migration inhibitory factor isoform 1		LLCGLLSDR, LHISPDR, ASVPEGFLS ELTQQLAQATGK	

IPI00124973.1	P52293	Gm10184	Importin subunit alpha-2		ASLNLIK,GINSNLSQLQATQA ASLNLIK,TDCSPIQFESAWALTNIA ARKLLSR,IQVILDAISNIFQAAEK, SGTSEQTK,IQVILDAISNIFQAAEK, NPAPPLDAVEQILPTLVR,VIDAGA NPAPPLDAVEQILPTLVR,FVSFLGK, LAVFPSLLTNP,K,FVSFLGK,IEVN VIDAGALAVFPSLLTNP,K,IEVNVELR VELR,LLGATELPIVTPALR,GINSN ,NNQGTVNWSVEDIVK,LLGATELPI NLESQIQATQAAR,AIGNIVTGT VTPALR,QDQIQQVNVHGLVPFLVG EQTQK,HGAIDPLLALLAVPDLSTL VLSK,GINSNLSQLQATQAAR,AI ACGYLR,AVVDGGAIPAFISLLASP GNIVTGTDEQTQK,HGAIDPLLALLA HAHISEQAVWALGNIAGDGSAFR, VPDLSTLACGYLR,NLWTWLSNLCR, HENESVYK KGVPQLVK	
IPI00123007.1	P62900	Gm10191	60S ribosomal protein L31	SAINEVVTR,EYTINIHK,NEDESPNKL YTLVTVYVPVTTFK,LYTLVTVYVPVTTFK, IHGVGFK	SAINEVVTR,NLQTVNVN DEN,LYTL VTVYVPVTTFK,IHGVGFK	SAINEVVTR,EYTINIHK,LYTLVTVYVP VTTFK,IHGVGFK
IPI00621613.1		Gm10196	similar to hCG1994130	HGYIGEFEINDDHR,QFGFIVLTTSAGI MDHEEAR		
IPI00752289.2		Gm10290	similar to Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) isoform 1	VVDLMAYMASK,IVSNASCTTNCLAPL AK,VIHDNFGIVEGLMTTVHAIATQK, WGEAGAEYVMESTGVFTTMEK,LISW YDNEYGYSNR,PITIFQER,VEIVAINDP FIDLNYMVYMFQYDSTHGK,GAAQNIIP ASTGAAK		
IPI00756025.1		Gm10313	similar to LOC654472 protein			MEGLMTTVHAIATQK,IVSNASCTT NCLAPLAK,GLMTTVHAIATQK,VIH DNFAIMEGLMTTVHAIATQK,LTGM AFR,GAAQNIIPASTGAAK,IIISTPSA DAPMFVMGVNHEK
IPI00128760.1	P68037	Gm10705	Ubiquitin-conjugating enzyme E2 L3	TDQVIQSLIALVNDPQPEHPLR,IEINFP AEYPPFKPPK,NAEEFTK	TDQVIQSLIALVNDPQPEHPLR,NI QVDEANLLTWQGLIVDPNPPYDK ,IEINFPAEYPPFKPPK,IYHPNIDEK	
IPI00122421.5	P61358	Gm11518	60S ribosomal protein L27	DVFRDPALK,VVLVLAGR,VYNYNHLM PTR,YSVDIPLDK,NIDDGTSRDPYSHA LVAGIDR	VVLVLAGR,VYNYNHLMPTR,YSV DIPLDK,NIDDGTSRDPYSHALVA GIDR	WFFQK,VYNYNHLMPTR,YSVDIPLD K,NIDDGTSRDPYSHALVAGIDR
IPI00461292.4		Gm11531	similar to Ribosomal protein L17 isoform 2	YSLDPENPTK,NAESNAELK,GLHVDSL VIEHIQVNK		
IPI00850073.1		Gm12013	similar to ribosomal protein L39			PIPQWIR,QNRPIQWIR
IPI00749932.1		Gm12141	similar to Heat shock protein 1	GVMLAVDAVIAELK		GANPVEIR,TVIIEQSWGSPK,TELLT LSMLQEQLLKK
IPI00277753.1		Gm12260	similar to histone H3			EIAQDFK,RVTIMPK,STELLIR,FQSS AVMALQEACESYLVLGFEDTNLCAI HAKR,KLPFQR
IPI00620288.1		Gm12938	similar to ribosomal protein L28	TVGVPEAADGK,KPATSYVR,SQKPVV VK,YNGLIHR,KTVGVPEAADGK	TVGVPEAADGK,KPATSYVR,SQK PVVVK,KTVGVPEAADGK	TVGVPEAADGK,KPATSYVR,NCSS FLIK,QTYSTEPNNLK,YNGLIHR
IPI00120871.1	Q9DCG9	Gm13072	TRM112-like protein	VEWAALVQAADTLNLAEPVK,INPVEF NPEFVAR		INPVEFNPEFVAR,LLTHNLLSSHVR

IPI00113655.1	P62754	Gm13654	40S ribosomal protein S6	LFNLSKEDDVR,MATEVAADALGEEWK,QQVLTHGR,NKEEAAEYAK,LIEVDDER,DIPGLTDTTVPR,LIEVDDERK	MATEVAADALGEEWK,LNISFPATGCQK,NKEEAAEYAK,GCIVDANLSVLNLLVIVK,LIEVDDER,DIPGLTDTTVPR	MATEVAADALGEEWK,LNISFPATGCQK,NKEEAAEYAK,LIEVDDER,GCIVDANLSVLNLLVIVK,DIPGLTDTTVPR
IPI00473415.1		Gm14059	similar to 40S ribosomal protein S12	TALIHDGLAR,DVIEEYFK,QAHLCLVALSNCDEPMYVK	TALIHDGLAR,LGEWVGLCK,KVVGCGSCVVVK,DVIEEYFK,LVEALCAEHQINLIK	TALIHDGLAR,LGEWVGLCK,KVVGCGSCVVVK,LVEALCAEHQINLIK,VVVGSCVVVK
IPI00420261.5	P63158	Gm15387	High mobility group protein B1			GEHPGLSIGDVAK,IKGEHPGLSIGDVAK,HPDASVNFSEFSK
IPI00880213.1		Gm15427	ribosomal protein L18A family member	FWYFVSQLK,IFAPNHVVAK,SGTHNMYR,AHSIQIMK	FWYFVSQLK,IFAPNHVVAK,NFGIWLRLR,FWYFVSQLKK,VEEIAAGK,DLTTAGAVTQCYR	FPLPHR,IFAPNHVVAK,NFGIWLRLR,HSIQIMK,CHTPPLYR,VEEIAAGK,DLTTAGAVTQCYR
IPI00849927.1	Q5XJF6	Gm15451	ribosomal protein L10A	AVDIPHMDIEALK,AVDIPHMDIEALKK,FLETVELQISLK,KYDAFLASESLIK,DTLYEAVR,KFLETVELQISLK,FPSLLTHNENMVAK,YDAFLASESLIK,ILGPGLNK,DTLYEAVREVLHGNQR	AVDIPHMDIEALKK,FLETVELQISLK,FSVCVLGDQQHCDEAK,KYDAFLASESLIK,DTLYEAVR,VLCLAVAVGHVK,KVLCLAVAVGHVK,FPSLLTHNENMVAK,MTDDELVYNIHLAVNFLVSLK,ILGPGLNK	AVDIPHMDIEALK,FSVCVLGDQQHCDEAK,VLCLAVAVGHVK,RFSGTVR,FPSLLTHNENMVAK,YDAFLASESLIK,ILGPGLNK
IPI00308706.4	P47962	Gm15500	60S ribosomal protein L5	YLMEEDEDAYKK,NNVTPDMMEEMYK,K,VFGALKGAVDGGLSIPHSTK,RFPGYDSESK,KHIMGQNVADYMR,GAVDGGLSIPHSTK,FPGYDSESK,EFNAEVHR,NVTPDMMEEMYK,EFNAEVHR,HIMGQNVADYMR,EFNAEVHRK,TTTGNKVF,GALKGAVDGGLSIPHSTK,IEGDMIVCAAYAHELPK,KAHAAIR,DIICQIYARIEGDMIVCAAYAHELPK,YLMEEDEDAYKK,QFSQYIK,FPGYDSESK	DIICQIYAR,YLMEEDEDAYKK,RFPGYDSESK,ENPVYEK,GAVDGGLSIPHSTK,IEGDMIVCAAYAHELPK,IYEGQVEVNGGEYNVESIDGPGAFTCYLDAGLAR,EFNAEVHR,VGLTNYAAAYCTGLLLAR,HIMGQNVADYMR	RFPGYDSESK,ENPVYEK,GAVDGGLSIPHSTK,EFNAEVHR,VGLTNYAAAYCTGLLLAR,HIMGQNVADYMR
IPI00224505.7	P47963	Gm15710	60S ribosomal protein L13	SKLILFPR,LATQLTGPMPIR,NGMILKPHFHK,KGDSSAEELK,TIGISVDPR,AK,EAAEQDVEK,GFSLEELR,STESLQANVQR,EAAEQDVEK	NGMILKPHFHK,VDTWFNQPAR,TIGISVDPR,GFSLEELR,STESLQANVQR	
IPI00132460.1	P61255	Gm15772	60S ribosomal protein L26	HFNAPSHIR,KYVIYIER,MKFNPFVTSDR,YVIYIER,YKEETIEK,DDEVQVVR,VVQVYR,ANGTTVHVGIIHPSK,KDDEVQVVR,FNPFVTSDR,IMSSPLSK,KIMSSPLSK	HFNAPSHIR,EKANGTTVHVGIIHPSK,KYVIYIER,DDEVQVVR,YVIYIER,KDDEVQVVR,ANGTTVHVGIIHPSK,FNPFVTSDR,VVQVYR	HFNAPSHIR,YVIYIER,YKEETIEK,VVQVYR,FNPFVTSDR,ANGTTVHVGIIHPSK,KDDEVQVVR

IPI00755309.1	Q91VJ6	Gm16468	ribosomal protein L3	SINPLGGFVHYGEVTNDFIMLK,PVHLT AFLGYK,LEQQVPVNQVFGQDEMIDVI GVTK,DDASKPVHLTAFLGYK,IGQGYL IK,ERLEQQVPVNQVFGQDEMIDVIGV TK,KAHLMIEIQVNGGTVAEK,KEVVEA VTIVETPPM VVVGIVGYVETPR,AHLM EIQVNGGTVAEK,EVVEAVTIVETPPM VVVGIVGYVETPR,AFMGPLKK,NNAS TDYDLSDK,DDASKPVHLTAFLGYKAG MTHIVR,FIDTTSK,AGMTHIVR,SFPKD DASKPVHLTAFLGYK,HGSLGFLPR,W QDDTGKK,IIAHTQMR	SINPLGGFVHYGEVTNDFIMLK,T VFAEHISDECKR,DDASKPVHLTA FLGYK	KYCQVIR,SINPLGGFVHYGEVTNDF IMLK,PVHLTAFLGYK,VACIGAWHP AR,LEQQVPVNQVFGQDEMIDVIGV TK,IGQGYLIK,TVFAEHISDECK,FQT MEEK,AGMTHIVR,HGSLGFLPR,W QDDTGKK,SLLVQTK,IIAHTQMR,YC QVIR
IPI00848775.1		Gm16470	similar to Glyceraldehyde-3-phosphate dehydrogenase	VVDLMAYMASK,IVSNASCTTNCLAPL AK,LVINGKPITIFQER,PITIFQER,RVIIS APSADAPMFVMGVNHEK,VEIVAINDP FIDLNYMVYMFQYDSTHGK,VIISAPSA DAPMFVMGVNHEK,VIHDNFGIVKGLM TTVHAITATQK		
IPI00263879.4	Q6ZVV7	Gm2000	60S ribosomal protein L35	QLDDLKVELSQLR,VLTVINQTQKENL R,VLTVINQTQK,KKEELLK,YKPLDLRP K	VLTVINQTQK,YKPLDLRPK	VLTVINQTQK,PLDLRPK,YKPLDLRP K
IPI00851014.1		Gm2223	similar to translation initiation factor eIF-2 gamma subunit	SCGSSTPDEFPTDIPGTKGNFK,IVSLF AEHNDLQYAAPGGLIGVGTK	AISGVHTVR,HILILQNK,VGQEIEV RPGIVSK,YNIEVVCEYIVK,IVLTN PVCTEVGEK,IVSLFAEHNDLQYA APGGLIGVGTK,EQYEQILAFVQG TVAEGAPIIPISAQLK,NEVLMVNI GSLSTGGR	VGQEIEVR,AISGVHTVR,HILILQNK, VGQEIEVRPGLVSK,IVLTNPVCTEV GEK,IVSLFAEHNDLQYAAPGGLIGV GTK,LIGWGQIR,IDPTLCR
IPI00850093.1		Gm3150	similar to G protein gamma-5 subunit		KVVQQLR,VSQAAADLK	
IPI00849598.1		Gm3405	similar to QM protein	VHIGQVIMSIR,VDEFPLCGHMVSDEY EQLSSEALEAAR,GAFGKPQGTVAR,IF DLGR,FNADEFEDMVAEKR,FNADEFE DMVAEK	VHIGQVIMSIR,GAFGKPQGTVAR, EHVIEALR,MLSCAGADR,EHVIEA LRR	VHIGQVIMSIR,RLIPDGCQVK,GAFG KPQGTVAR,EHVIEALR,MLSCAGAD R
IPI00469351.3		Gm4130	similar to heterogeneous nuclear ribonucleoprotein K	FLAAGTHLGGTDLDFQMEQYIYK,AIVA IENPADVSVISSR,LLIHQSLAGGIIGVK	FLAAGTHLGGTDLDFQMEQYIYK, VVLIGGKPADR,AIVAIENPADVSVI SSR,LLIHQSLAGGIIGVK	
IPI00874692.1		Gm4294	similar to ribosomal protein L15	FFEVLIDPFHK,GATYGKPVHHGVNQL K,RNPDTQWITK,NTLQLHR,VLNSYVW GEDSTYK,PVHHGVNQLK,SLQSVAAE R		
IPI00850166.1		Gm4340	PREDICTED: similar to RNA and export factor binding protein 1-II isoform 1	KADALK,PMNIQLATSQIDR		
IPI00849768.1		Gm4363	similar to HSPC016		AAGKGPLATGGIKK,GPLATGGIK, KLEQLK	
IPI00272545.5		Gm4613	similar to ribosomal protein L37a		IEISQHAK,KIEISQHAK	IEISQHAK,KIEISQHAK,YTCSFCGK

IPI00466153.4	Q9D1R9	Gm4705	60S ribosomal protein L34	RLSYNTASNK,LSYNTASNK,AFLIEEQ K	RLSYNTASNK,LSYNTASNK,AFLI EEQK,IVVLYTK	LSYNTASNK,SACGVCPCGR
IPI00762179.2		Gm4720	similar to ORF1	AWTDVIQTLR,IIGIDENEDFQLK,ISGA EDSIENIGTTIK		
IPI00343021.3		Gm4838	hypothetical protein	IAGQVAAVSK,VLQALEGLK,ELAPYDE KWFYTR,RVLQALEGLK,HLYLR		
IPI00890115.1		Gm4968	PREDICTED: hypothetical protein	ESEIIDFFLGASLKDEVLK,AEDKEWIP VTK,TYSYLTPDLWK,SLEEIYLFSLPIK, ETVFTK,IKSLEEIYLFSLPIK,ESEIIDFF LGASLK	IGKPHTVPCK,SLEEIYLFSLPIK,G CTATLGNFAKAIKFAISKTYSYLT DLWK	
IPI00606944.2		Gm4970	hypothetical protein			AQLVVIAHDVDPIELVVFLPALCR,R HWGGNVLGPK,AGVNTVTTLVENK, VPPAINQFTQALDR,NFGIGQDIQPK ,QTATQLLK,LKVPPAINQFTQALDR, HWGGNVLGPK,TCTTVAFTQVNSE DK,LGHLVHR,LLAHAEK
IPI00108337.5		Gm4986	similar to Ac2-210	YSLDPENPTK	YSLDPENPTK,GLEVESLVIEHIQV NK	
IPI00128267.4	A2AD25	Gm4987	MCG49690	AAQLAIR,ELEVLLMCNKSYCAEIAHNV SSK,FLVHDVK	ELEVLLMCNK,SYCAEIAHNVSSK	
IPI00469327.5		Gm5068	similar to endothelial monocyte- activating polypeptide		DPGVLDLDR,TEFLSFMNTELAFTK	
IPI00676841.1	Q2YD80	Gm5081	hypothetical protein LOC328099		RVTSIADR,VYAILTHGIFSGPAISR ,MVLVGDVK,IFSGSSHQDLSQK,L NVDFALHK	VTAVIPCFFPYAR,NCTIVSPDAGGAK ,GEDVYIVQSGCGEINDNLMELLIMI NACK,IFSGSSHQDLSQK,LLSAGAT R
IPI00671398.1		Gm5121	similar to ribosomal protein S8 isoform 1	ISSLLEEQFQQGK,QWYKSHYALPLGR ,IIDVVYNASNNELV,RIHTVR,KYELG R,LTPEEEEEILNK,ADGYVLEGK		
IPI00849245.1		Gm5218	similar to ribosomal protein		AQASAPAQAPK,AGAKAPAKAQA SAPAQAPK	
IPI00395100.1	Q7M754	Gm5409	Try10-like trypsinogen	TLDNDIMLIK,LSSPVTLNAR,KTLDNDIM LIK,TLDNDIMLIK,LGEHNINVLEGNEQ FIDAANIVKHPKFK		
IPI00457852.3		Gm5428	similar to ribosomal protein L6	YYPTEDVPR,HQEGEIFDTEKEYEITE QR,HQEGEIFDTEK,THQKFVIATSTKV DISDVK,QLDSGLLLVTGPLVINR,FVIA TSTKVDISDVK,SFPQLSAVLGFMST, QLDSGLLLVTGPLVINRVLPLR,YEITEQ R,EKYEITEQR,AVDLQILPK,HLTDAYF K,KPFSQHVR		
IPI00461504.1		Gm5445	similar to hCG1782414 isoform 1	VYNVTQHAVGIIVNK,KGDIVDIK	VYNVTQHAVGIIVNK,KGDIVDIK	
IPI00890082.1		Gm5534	hypothetical protein			GTWVQLK,KGDIVNIK

IPI00621272.3	Q9D0T1	Gm5616	NHP2-like protein 1		GISEFIVMAADAEPLEIILHPLLLCE DK,LLDLVQQSCNYK,PVIACSVTI K	AYPLADAHLTK,QQIQSIQQSIER,LL DLVQQSCNYK
IPI00470152.2	Q642L7	Gm6111	ribosomal protein S27a	TITLEVEPSDTIENVK,ECPSDECGAGV FMGSHFDR,MQIFVK,TLSDYNIQKEST LHLVLR,ESTLHLVLR,MQIFVKTLTGKT ITLEVEPSDTIENVK,TLSDYNIQK,TL DYNIQKESTLHLVLRRLR,LIFAGK,IQDK EGIPPDQQR	TITLEVEPSDTIENVK,MQIFVK,TL SDYNIQKESTLHLVLR,ESTLHLVLR, R,TLSDYNIQK,IQDKEGIPPDQQR ,EGIPPDQQR,TLTGKTITLEVEPS DTIENVK	
IPI00875351.2	B2RY53	Gm6133	EG620155 protein	NAESNAELK,EQIVPKPEEEVAQK		RYHGGVGTCTQAK,KQCVFPR,NAE SNAELK,EQIVPKPEEEVAQK
IPI00626312.1		Gm6136	similar to ribosomal protein L6	YYPTEDVPR,HQEGEIFDTEKEKYEITE QR,THQKFVIATSTKVDISDVK,HQEGE IFDTEK,QLDSGLLLVTGPLVINR,FVIAT STKVDISDVK,SQFSLTNGMPYHK,QLD SGLLLVTGPLVINRVPLR,YEITEQR,EK YEITEQR,LRSSITPGTVLIILTGR,AVDL QILPK,HLTDAYFK,KPFSQHVR,SSITP GTVLIILTGR	YYPTEDVPR,VDISDVK,AVDLQIL PK,QLDSGLLLVTGPLVINR,AVPQ LQGYLR,VVFLKQLDSGLLLVTGP LVINR,FVIATSTK,HLTDAYFK,YEI TEQR,HQEGEIFDTEKEK,EKYEIT EQR,SSITPGTVLIILTGR	YYPTEDVPR,HQEGEIFDTEK,VDIS DVK,QLDSGLLLVTGPLVINR,PFSQ HVR,AVPQLQGYLR,YEITEQR,EKY EITEQR,AVDLQILPK,FVIATSTK,HL TDAYFK,KPFSQHVR,SSITPGTVLIIL TGR
IPI00889220.1		Gm6251	ribosomal protein-like	GQILMPNIGYGSNK,AAQLAIR,KFLVH NVK,FLVHNVKELEVLLMCNR		
IPI00622837.1		Gm6265	hypothetical protein		AYAIFYR,NYDSMKDFEEMRK,A GIFQSAK,FGVAEPR	
IPI00123176.1		Gm6316	37 kDa protein	MEGLMTTVHAITATQK,IVSNASCTTN CLAPLAK,LVINGKPITIFQER,LISWYD NEYGYSNR,PITIFQER,RVIISAPSADA PMFVMGVNHEK,VIISAPSADAPMFVM GVNHEK,GAAQNIIPASTGAAK		
IPI00116252.1	Q99L28	Gm6457	Probable ribosome biogenesis protein RLP24	MVQQLQEDVDMEEAS,ELTVDNSFEF EK		
IPI00133801.3	Q9D1J3	Gm6563	SAP domain-containing ribonucleoprotein			ITSGIPQTER,FGIVTSSAGTGTEDT EAK,FNVPVSLESK,FGLNVSSISR,F GISSVPTK
IPI00850777.1		Gm6570	similar to ribosomal protein L30		VCTLAIIDPGDSDIIR,LVILANNC ALR	
IPI00663555.1		Gm6630	similar to ribosomal protein	IPDWFLNR,VLNTDIDGR,VITIMQNPR		
IPI00674601.1		Gm6654	similar to ribosomal protein S26	LHYCVSCAIHSK,NIVEAAAVR,DISEAS VFDAYVLPK	NIVEAAAVR,DISEASVFDAYVLPK	
IPI00109696.1	Q9CWW6	Gm6851	Peptidyl-prolyl cis-trans isomerase NIMA-interacting 4	GSMVGPFEAAAFALPVSMDKPVFT DPPVK,FSEVATQYSEDK,FGYHIIMVE GR		
IPI00757219.1		Gm6910	25 kDa protein	DKDISPSVTK,PAADEGFWDCSVCTFR ,SDILKDPPEANSIQSANATTK,INSQL VAQQVAQQYATPPPPK,INSQLVAQQV AQQYATPPPPK		
IPI00620075.2		Gm6941	similar to human protein homologous to DROER protein		IYVLLR,ADTQTYQPYNK	

IPI00625893.3		Gm6981	36 kDa protein	IVSNASCTTNCLAPLAK,RVIISAPSADA PMFVMGVNHEK,VIISAPSADAPMFVM GVNHEK,GAAQNIIPASTGAAK	IVSNASCTTNCLAPLAK,GAAQNII PASTGAAK, VGVNGFGR, GILGYT EDQVVSDFNSNSYSSTFDAGA GIALNDNFVK	
IPI00621229.1		Gm6998	similar to ribosomal protein S8 isoform 2	ISSLLEEQQQGGK,IIDVVYNASNNELV R,QWYESHYALPLGR,RIHTVR,KYELG R,LTPEEEEEILNK,LDVGNFSWGSECCT R,YELGRPAANTK,KYELGRPAANTK,A DGYVLEGGK	ISSLLEEQQQGGK,LLACIASR,IID VVYNASNNELVR,NCIVLIDSTPYR ,LTPEEEEEILNK,LDVGNFSWGSE CCTR,KYELGRPAANTK,YELGRP AANTK,ADGYVLEGGK	
IPI00666411.2		Gm7189	similar to Glyceraldehyde-3-phosphate dehydrogenase		GILGYTEDQIVSCNFNSNSHPLTL GAGTEIALNDNFVK,QASEGPLK	
IPI00756253.2		Gm7206	similar to 60S ribosomal protein L9	FLDGIYVSEK,NFLGEK,KFLDGIYVSEK ,SVYAHFPINVVIQENGLVEIR	FLDGIYVSEK,DELILEGNDIELVS NSVALIQQATTVK,TGVACSVSQA QK,KFLDGIYVSEK,TICSHVQNM K,SVYAHFPINVVIQENGLVEIR	
IPI00889899.1		Gm7251	hypothetical protein		VIHDNCGIVEGLMTTVHAITATQK, GLMTTVHAITATQK,PITIFQER,LT GMAFR,GAAQNIIPASTGAAK,QA SEGPLK	
IPI00751677.3		Gm7293	similar to Glyceraldehyde-3-phosphate dehydrogenase	VVDLMAYMASK,IVSNASCTTNCLAPL AK,VIHDNFGIVEGLMTTVHAITATQK,L ISWYDNEYGYSNR,RVIISAPSADAPM FVMGVNHEK,VEIVAINDPFIDLNYMVY MFQYDSTHGK,VIISAPSADAPMFVMG VNHEK,VGVNGFGR	VVDLMAYMASK,IVSNASCTTNCL APLAK,GLMTTVHAITATQK,LISW YDNEYGYSNR,VIHDNFGIVEGLM TTVHAITATQK,VEIVAINDPFIDLN YMVYMFQYDSTHGK,LVINGKPIT VFQER,RVIISAPSADAPMFVMGV NHEK,VIISAPSADAPMFVMGVNH EK,LTGMAFR,VGVNGFGR,GILG YTEDQVVSCDFNSNSHSSTFDA GAGIALNDNFVK	
IPI00626628.1	Q9CQ16	Gm7536	ribosomal protein L27a	TGVAPIIDVVR,GHVSHGHGR,LWTLVLS EQTR,TGVAPIIDVVRSGYYKVLGK	TGVAPIIDVVR,NQSFCPTVNLDK, LWTLVSEQTR	TGVAPIIDVVR,NQSFCPTVNLDK,L WTLVSEQTR,YHPGYFGK,RNQSFC PTVNLDK
IPI00230150.1	P62309	Gm8186	Small nuclear ribonucleoprotein G	HVQGILR,GNSIIMLEALER	AHPPELK,HVQGILR,GNSIIMLEAL ER,GNSIIMLEALERV,AHPPELKK	
IPI00330363.8	P12970	Gm8226	60S ribosomal protein L7a		KVVNPLFEK,AQLVVIAHDVDPIEL VVFLPALCR,AGVNTVTTLVENK,V PPAINQFTQALDR,VVNPLFEK,NF GIGQDIQPK,LKVPPAINQFTQALD R,LGHLVHR,TCTTVAFTQVNS EDK,AGVNTVTTLVENKK,KTCTTVA FTQVNS EDK	

IPI00880400.1	P25444	Gm8553	40S ribosomal protein S2	LSIVPVR,TYSYLTPLDWK,AEDKEWIP VTK,EVATAIRGAILAKLSIVPVR,GTGI VSAPVPK,ESEIIDFFLGASLKDEVLK,F KAFVAIGDYNGHVGLGVK,SLEEIYLF LPIK,IKSLEEIYLFSLPIK,ETVFTK,ESEI DFFLGASLK,AFVAIGDYNGHVGLGVK, SPYQEFTDHLVK	LSIVPVR,GTGIVSAPVPK,TYSYLT PDLWK,AEDKEWIPVTK,IGKPHT VPCK,SLEEIYLFSLPIK,GCTATLG NFAK,ESEIIDFFLGASLK,AFVAIG DYNGHVGLGVK,SPYQEFTDHLV K,ATFDAISK
IPI00626366.3		Gm8730	similar to Acidic ribosomal phosphoprotein P0	IIQLLDDYPK,TSFFQALGITTK,GTIEILS DVQLIK	AGAIAPCEVTVPAQNTGLGPEK,V LALSVETEYTFPLAEK,SNYFLK,G NVGFVFTK,NVASVCLQIGYPTVA SVPHSIINGYK,IIQLLDDYPK,AFL ADPSAFAAAAAAATAAPAAA AAPAK,TSFFQALGITTK,GHLENN PALEK,GTIEILSDVQLIK
IPI00752723.1		Gm8842	hypothetical protein isoform 2	GTGIVSAPVPK,LSIVPVR,AEDKEWIPV TK,TYSYLTPLDWK,ESEIIDFFLGASLK DEVLK,FKAFVAIGDYNGHVGLGVK,M ADDAGVAGGPGGGPGLGGRSGF R,IKSLEEIYLFSLPIK,ETVFTK,SLEEIY LFSLPIK,ESEIIDFFLGASLK,AFVAIGD YNGHVGLGVK	
IPI00848866.1		Gm8894	similar to non-muscle myosin alkali light chain	NKDQGTIEDYVEGLR,DQGTIEDYVE GLR,VLDFEHFLPMLQTVAK	
IPI00918622.1		Gm8994	predicted gene, EG668137	GIYAYGFEEKPSAIQQR,MLVLDEADEM LNR	ELAVQIQK,GIYAYGFEEKPSAIQQR ,KLDYGQHVVAGTPGR,LDYGQH VVAGTPGR,GLDVPQVSLIINYDL PNNR,VLISTDVWAR,GRDVIAQS QSGTGK,ETQALILAPTR,KVDWL TEK
IPI00753102.2		Gm9034	similar to Glyceraldehyde-3-phosphate dehydrogenase	VVDLMAYMASK,IVSNASCTTNCLAPL AK,VGVNGFGR,WGNAGAEYVVESTG VFTTMEK	VVDLMAYMASK,IVSNASCTTNCL APLAK,LVINGKPITVFQER,GILGY TEDQVVSYDFNSNSHSSTFDAGA GIALNINFVK,VGVNGFGR
IPI00626504.2		Gm9093	similar to Acidic ribosomal phosphoprotein P0	IIQLLDDYPK,GTIEILSDVQLIK	GNVGFVFTK,SNYFLK,VGAIAPCEV TMPAQNTGLGPEK,IIQLLDDYPK,C FIVGADNVGSK,GHLENNPALEK,GT IEILSDVQLIK
IPI00115426.1	Q99JP4	Gm9174	Anaphase-promoting complex subunit CDC26	LDDIEEFESIR,IGYKPQLK	
IPI00120395.4		Gm9387	similar to Ttc5 protein		QLQTDSGDEHSR,LAVQIDVLDG R
IPI00849793.1	P35979	Gm9396	60S ribosomal protein L12	VGDDIAK,HSGNITFDEIVNIAR,IGPLGL SPK,KVGDDIAK,QAQIEVVPASALIIK, ELSGTIK	HPHDIIDDINSGAVECPAS,HSGNI TFDEIVNIAR,IGPLGLSPK,EILGTA QSVGCNVDGR,KVGDDIAK,QAQI EVVPASALIIK
					CTGGEVGSATLAPK,HPHDIIDDIN SGAVECPAS,IGPLGLSPK,EILGTAQ SVGCNVDGR,KVGDDIAK,QAQIEV PSASALIIK

IPI00625588.1	Gm9755		hypothetical protein	TIGTGLVTDVPAMTEEDKNIK,LLDAVD TYIPVPTR	TTLTAAITK,GITINAAHVEYSTAAR ,KGDECELLGHNK,AEAGDNLGAL VR,LLDAVDTYIPVPTR,VEAQVYIL SK,GTVVGTGLER,DKPHVNVGTI GHVDHGK	TTLTAAITK,KGDECELLGHNK,LLDA VDYIPVPTR,GTVVGTGLER,HYAH TDCPGHADYVK,GEETPVVGSALC ALEQR
IPI00622968.1	Gm9819		hypothetical protein	EHPWEVMPDLYFYR,AIVAIENPADVS VISSR,FTPGFTFNQIQAAFR,FLAAGTH LGGTNLDFQMEQYIYK,SDGIYIINLK	YVDIAIPCNNK,FAAATGATPIAGR ,DPEEIEKEEQAAAEK,KSDGIYIIN LK,FTPGFTFNQIQAAFR,AIVAIEN PADVSVISSR,GAHSVGLMWWML AR,FLAAGTHLGGTNLDFQMEQYI YK,LLVVTDPDR,ADHQPLTEASYV NLPTIALCNTDSPLR,SDGIYIINLK	YVDIAIPCNNK,FAAATGATPIAGR,E HPWEVMPDLYFYR,FTPGFTFNQIQ AAFR,AIVAIENPADVSVISSR,LLVVT DPR,ADHQPLTEASYVNLPTIALCNT DSPLR
IPI00340165.5	Gm9824		21 kDa protein	LYTLVLTDPNAPSR,VDYAGVTVDELG K,VLTPQVMNRPSSISWDGLDPGK,G NDISSGTVLSDYVVGSGPPSGTGLHR,P SSISWDGLDPGK		VDYAGVTVDELGK,LYEQLSGK,GN DISSGTVLSDYVVGSGPPSGTGLHR, PSSISWDGLDPGK
IPI00173160.3	Q6ZWU9	Gm9846	40S ribosomal protein S27	LVQSPNSYFMDVK,DLLHPSPEEEK	LVQSPNSYFMDVK,DLLHPSPEE EK,LTEGCSFR,DLLHPSPEEEKR	DLLHPSPEEEK,LTEGCSFR,ITTVFS HAQTVVLCVGCSTVLCQPTGGK
IPI00624984.1	Gm9923		similar to Hbs11 protein	GYNYDEDFEDDDLYGQSVEDDYCISP STAAQFIYSR,DLENLSLSDLIAK,ESSN SLLNHQLSEIDQAR		
IPI00351252.4	Q3THK7	Gmps	GMP synthase [glutamine-hydrolyzing]		DGSHHYEGAVVILDAGAQQYQK,D EPDWESLIFLAR,IVADFSASVK,E LFVQSEIFPLETPAFAIK,IANEVIG EMSLKPEEVFLAQGTLRPDLIESA SLVASGK,VLVLLSGGVDSTVCTA LLNR	TFITSDFMTGVPATPGNEIPVEVVLK ,THHNDTELIR,EPPTDVTPFTTGV LSTLR,VFGGTVHK,KPHTLQQR,LM QITSLHSLNAFLLPK
IPI00652902.1	Q3TXK7	Gnai2	Putative uncharacterized protein		NVQFVFDAVTDVVIK,IAQSDYIPT QQDVLR	
IPI00120716.3	P62874	Gnb1	Guanine nucleotide-binding protein G(I)/G(S)/G(T) subunit beta-1		LIIWDSYTTNK,LLVSASQDGK,LLL AGYDDFNCNVWDALK	LLVSASQDGK,VHAIPLR,ACADATL SQITNNIDPVGR,LFVSGACDASAK
IPI00317740.5	P68040	Gnb211	Guanine nucleotide-binding protein subunit beta-2-like 1	GHNGWVTQIATTPQFPDMILSASR,VD ELK,IIVDELKQEVISTSSK	GHNGWVTQIATTPQFPDMILSAS R,AEPPQCTSLAWSADGQTLFAG YTDNLVR,FSPNSSNPIIVSCGWD K,LWDLTTGTTR,YTVQDESHSE WVSCVR,IIVDELKQEVISTSSK,D VLSVAFSSDNR,DETNYGIPQR,Y WLCAATGPSIK,VWQVTIGTR,HL YTLGGDIINALCFSPNR,VWNLA NCK,IIVDELK,TNHIGHTGYLNTVT VSPDGLCASGGK,IWDLEGK,LW NTLGVCK	GHNGWVTQIATTPQFPDMILSASR, AEPPQCTSLAWSADGQTLFAGYTD NLVR,FSPNSSNPIIVSCGWDK,LWD LTTGTTR,YTVQDESHSEWVSCVR ,DETNYGIPQR,YWLCAATGPSIK,V WQVTIGTR,QEVISTSSK,IIVDELK,T NHIGHTGYLNTVTVSPDGLCASG GK,LWNTLGVCK,IWDLEGK
IPI00116898.3	Q99LH1	Gnl2	Nucleolar GTP-binding protein 2	IESWENAEDFLEK,VIDSSDVVVQVLD AR,VIKPLQYQSTVASGTVAR		

IPI00222461.4	Q8CI11	Gnl3	Isoform 1 of Guanine nucleotide-binding protein-like 3	ENLENWLNLYLNK,DPLGCRCPQIEEAV IQSGSK,GFNLEEEK,KDPGVPNSAPF KEALLR,SPASIEELRPLEAASAILSQA DNEQVVLK,DIQVGVIGFPNVGK,NAEI SDVAPVEETR,DIQVGVIGFPNVGKSS VINSLK,SSGLTNGILDEKDIVEESPR,VI EASDIVLEVLDAR,KVIEASDIVLEVLDAR	SPASIEELRPLEAASAILSQADNE QVVLK,KLEVSPGDEQSNVETR,LI LVLNK,VIEASDIVLEVLDAR
IPI00108818.3	Q6PGG6	Gnl3l	Guanine nucleotide-binding protein-like 3-like protein	LADPVTPTVETILQR,ILETDPQQGQAL ASALK	
IPI00126660.1	P98192	Gnpat	Dihydroxyacetone phosphate acyltransferase		LGVVEKK,VCVNEEGIQK
IPI00654934.10	B2RWW2	Golgb1	Golgb1 protein	ILELEEEENDR,ELENLLSQEEEEENVALE EENK,AMTSLQNER,DAYHHLQGGQFHE QNKEKENIADQLR	TAAEEELQAVVQR,AASVEAQAH TELLK,RQLEER
IPI00128905.1	Q91XA2	Golm1	Golgi membrane protein 1	LQEEVPSEEQMPQEK,QSHILNQVGIH IPQQA	
IPI00133212.1	Q9CR60	Golt1b	Vesicle transport protein GOT1B		VPVLGSLNLPGIR,RVPVLGSLNLP GIR
IPI00117312.1	P05202	Got2	Aspartate aminotransferase, mitochondrial		TCGFDFSGALEDISK,ISVAGVTSGN TCGFDFSGALEDISK,TQLVSNLK, VGYLAHAIHQVTK,FVTVQTISGTGA FVTVQTISGTGALR,KAEAQIAAK,I LR,ILIRPLYSNPPLNGAR,IAATILTS AATILTSPDLR,ASAELALGENNEV PDLR,ASAELALGENNEVLK,VGASFL LQ,PSWGNHTPIFR,VGAFTVVCK, EYLPIGGLAEFCK
IPI00876084.1	Q64521	Gpd2	Glycerol-3-phosphate dehydrogenase, mitochondrial		FHNLNAGPSR,VIFFLPWEK,LVG AIVYYDGQHNDAR,ALEHFPMQ K,LVQDYGLESEVAQHLAK,GFITI VDVQR,NHVVDISDSGLITIAGGK, RVPIPVDR,DKLVGAIVYYDGQHN DAR,TVGLFLQGGK,FEDEKGF TIVDVQR,YGAATANYMEVVSLLK ,VLESINVQMDENTLHEILCEVDLN K,KQEELETATR,LVSEFPYIEAEV K,LAFLNVQAAEEALPR,ANLLEIA PHLSAPLPIMLPYK,MNLAIALTA AR,NYLSSDVEVR
IPI00228633.7	P06745	Gpi1	Glucose-6-phosphate isomerase	VWFVSNIDGTHIAK,EVMQMLVELAK,T FTTQETITNAETAK	SPEDLEK,HFVALSTNTAK,SITDII NIGIGGSDLGPLMVTEALKPYSK,I LLANFLAQTEALMK,FNNFSLNLN TNHGHLVDYSK,VWFVSNIDGTH IAK,AVLHVALR,VFEGNRPNTSIV FTK,EVMQMLVELAK,TLASLSPET SLFIIASK,TFTTQETITNAETAK
IPI00357027.6		Gpr161	G protein-coupled receptor 161		SSVTFEDEVQIK,GALTMNSLSSLS YRK

IPI00319652.2	P11352	Gpx1	Glutathione peroxidase 1	YVRPGGGFEPNFTLFEK,TIDIEPDIETL LSQQSGNS,PGGGFEPNFTLFEK,FRTI DIEPDIETLLSQQSGNS	
IPI00119058.1	Q60631	Grb2	Isoform 1 of Growth factor receptor-bound protein 2	FNSLNELVDYHR,YFLWVVK	
IPI00466976.4	Q6P6I6	Grin1a	Isoform 1 of Protein GRINL1A	ITIADQSEPSEENTSTENFPELQSETP K,GNEETLEAGYTVNSSPAAHIR	
IPI00775775.1	A2AEW8	Gripap1	Gripap1 protein	KAQEVEVLLSENEMLQAK,VMLDELA METLQEK,EAVRPSAVGEGQGDPGGD VLPTPLAPMPLAEVELK	
IPI00111240.5	P47743	Grm8	Metabotropic glutamate receptor 8		EIGGVCIAQSQK,GVPCGDLK
IPI00117083.1	Q99LP6	Grpel1	GrpE protein homolog 1, mitochondrial		ALADTENLR,DLLEVADILEK,TLR PALVGVVK
IPI00117167.2	P13020	Gsn	Isoform 1 of Gelsolin	VPFDAATLHTSTAMAAQHGMDDDG T GQK,QTQVSVLPEGGETPLFK	
IPI00230355.1	Q8K2E1	Gspt1	G1 to S phase transition 1		GIEEEEILPGFILCDLNNLCHSGR, TFDAQIVIIIEHK,KEHVNVVFIGHV DAGK,HLIVLINK,EQSDFCPWYIG LPIFIPYLDNLPNFNRR,PFVNVHA AEFVPSFLR K
IPI00111359.2	P47791	Gsr	Isoform Mitochondrial of Glutathione reductase, mitochondrial	SHIEIHHGYATFADGPRPTVEVNGK,AD FDNTVAIHPTSSEELVTLR,LDYDNIPT VVFHSHPPIGTVGLTEDEAVHK	KTSSGLELQVVTVPGR,ALLTPVAI AAGR,TSSGLELQVVTVPGR,LD YDNIPTVVFHSHPPIGTVGLTEDEAV HK
IPI00323911.3	P24472	Gsta4	Glutathione S-transferase A4		FLQPGSQR,YNLYGK,EKEESYDLI LSR,DGHLLFGQVPLVEIDGMMLT QTR,KPPPDGPYVEVVR,AILSYLA AK
IPI00555023.2	P19157	Gstp1	Glutathione S-transferase P 1		YVTLIYTNYENGK,ALPGHLKPFET LLSQNQGGK,FEDGDLTLYQSNAI LR
IPI00121198.2	Q99PM3	Gtf2a1	Transcription initiation factor IIA subunit 1	SVIEDVINDVR,DIFLDDGVDEQVLMEL K	
IPI00331112.4	Q9D902	Gtf2e2	General transcription factor IIE subunit 2	GDTHPLTLEEILDETQHLDIGLK,GLGGI LLEDIEEGLPNSQK,ALSGSSGYK,IEV VDGK	RQGISSMQESGPK,THNEHLAGVLK
IPI00135812.2	Q8R0A0	Gtf2f2	General transcription factor IIF subunit 2	TEVSFTLNEDLANIHDIGGK,QHVLDML FSAFEK,EHPFVLQSVGGQTLTVFTES SSDK	
IPI00113686.2	Q9ESZ8	Gtf2i	Isoform 1 of General transcription factor II-I	VPEIEVTVEGPNSSPQTS AVR,KMVD QLFCKK,FAQALGLTEAVK,FGEAIGMG FPVK,MSVDAVEIETLR	GPVTIPYPLFQSHVEDLYVEGLPE GIPFR,VPYPVFESNPEFLYVEGL PEGIPFR
IPI00310646.5	Q8BTU1	Gti3	Isoform 1 of UPF0468 protein C16orf80 homolog	NTFQSGFLSILYSIGSK,YFTFEVQVLD DK,LPFLVMIK	
IPI00761677.1	O08582	Gtpbp1	GTP-binding protein 1	DDVIVTASNFSER,MFLNLLSPR,LVL VSPTSEQYDSSLR,STLLGVLTHGELD NGR	

IPI00117642.3	Q99ME9	Gtpbp4	Nucleolar GTP-binding protein 1	DFIDLTLISK,SLGVDMDKNNAHYAVQ AR,EQLELFQNIAR,LHLAVPNK,ERPPFI PEGVIAR,LALGQINIAR,ERDLELEMGD DYILDQK,NTIEMQAITALHLR,LSQIL SDFPK,PPFIPEGVIARR,ADVVDVQPYA FTTK,DDKERPPFIPEGVIAR,YWDLMN SSEK,WQVVDTPGILDHPLEDR,PLFIN KPLIVVANK	LALGQINIAR,KLEELEKEEELR,IFL DLQAEFGPVIETSTLTEEVIQVK	LALGQINIAR,FTQQNYHDR,MCTIIR, TLLCGYPNVGK,LSQILSDFPK,HFY MR,WQVVDTPGILDHPLEDR
IPI00268247.4	Q8R080	Gtse1	G2 and S phase-expressed protein 1	EDFLLLEDEK,VPTLSPLTQQPQTPEQ R,TLLKPPGYTGNLTR,VPQFSVGESP GGVTPK		LDQLTITPEAGGR,LSSLPLMAPQS MPR,AELGQLIDLGSPLIQLSPEADK
IPI00228828.5	Q564G0	Guk1	guanylate kinase 1 isoform 1	TDMESSKEPGLFDLVIINDDLK,NPRP GEEDGKDYFVTR,EPGLFDLVIINDDL DK,DIAAGDFIEHAEFSGNLYGTSK		
IPI00118590.1	Q80ZM5	H1fx	H1 histone family, member X	RGASAASSPAPK,ALVQNDTLLQVK,A GGSAAPTQPK,YSQLVVETIR		
IPI00555055.3	Q5NC92	H2afv	14 kDa protein	GDEELDSLIIK,AGLQFPVGR,HLQLAIR, HLQLAIRGDEELDSLIIK,ATIAGGGVIPH IHK	GDEELDSLIIK,AGLQFPVGR,HLQL AIR,VGATAAVYSAAILEYLTAEVL ELAGNASK,ATIAGGGVIPHIIK	GDEELDSLIIK,AGLQFPVGR,HLQLAI R,VGATAAVYSAAILEYLTAEVLELA GNASK,ATIAGGGVIPHIIK
IPI00230264.5	P27661	H2afx	Histone H2A.x	AGLQFPVGR,NDEELNK,HLQLAIR,VTI AQGGVLPNIQAVLLPK,LLGGVTIAQGG GVLVLPNIQAVLLPK,VTIAQGGVLPNIQA VLLPKK,HLQLAIRNDEELNK	AGLQFPVGR,NDEELNK,VTIAQGG GVLVLPNIQAVLLPK,HLQLAIR,LLG GVTIAQGGVLPNIQAVLLPK,VGA GAPVYLAHVLEYLEYLTAEILELAGNA AR,VGAGAPVYLAHVLEYLEYLTAEILE LAGNAARDNKK	AGLQFPVGR,HLQLAIR,VTIAQGGV LPNIQAVLLPK,LLGGVTIAQGGVLP NIQAVLLPK,VGAGAPVYLAHVLEYLE TAEILELAGNAAR,LLGGVTIAQGGV LPNIQAVLLPKK
IPI00378480.1	Q9QZQ8	H2afy	Isoform 2 of Core histone macro-H2A.1		HILLAVANDEELNQLLK,EFVEAVL ELR,IGVGAPVYMAAVLEYLEYLTAEIL ELAGNAAR	SIAFPSIGSGR,GVTIASGGVLPNIHP ELLA
IPI00223092.5	Q8BMS1	Hadha	Trifunctional enzyme subunit alpha, mitochondrial		DSIFSNLIGQLDYK,ADMVIEAVFE DLGVK,DTTASAVAVGLR,TVLGV PEVLLGILPGAGGTQR,THINYG V,K,ILQEGVDPK,FGELALTK,EVQS EFIEVMNEIWANDQIR,KLDALTTG LDALTTGFGFPVGAATLADEVGV FGFPVGAATLADEVGVDAQHVAAQ EDLGK,LDALTTGFGFPVGAATLA AGGTQR,THINYGK,LPKPEVSSD DEVGVDAQHVAAEDLGK,AGLEQ EDVQYR GSDAGYLAESQK,MQLLEIITTDK, TIEYLEEVAVNFAK,NVQQLAILGA GLMGAGIAQVSVDK,LPKPEVSS DEDVQYR	
IPI00115607.3	Q99JY0	Hadhb	Trifunctional enzyme subunit beta, mitochondrial		NIVVVEGVR,LAAAFVSR	

IPI00226930.2	A2ATU9	Hat1	Histone aminotransferase 1	FQELVEDYRR,ETNFKPFGTLLHT YTVPSQTGGGETFTFQIHK,ILLYYIA GSLSTLFR,LLVTDMSDAEQYR	QIIPPGFCTNTNDFLSLLEK,FCQFLP SFSR,FLVEYK
IPI00556802.1	Q69ZS7	Hbs11	Isoform 1 of HBS1-like protein	GYNYDEDFEDDDLYGQSVEDDYCISP STAAQFIYSR,QLLNLVVIGHVDAGK,E SSNSLLNHQLSEIDQAR,GPPGDDVSV ASPNIPETGTPK	
IPI00828490.2	B1AUX2	Hcfc1	Host cell factor C1	MYVFGGWVPLVMDDVK,VTGPQATTG TPLVTMRPASQAGK,SPDGAHLTWEF PSVTSKG,YLNDLYILELR,YDIPATAAT ATSPTPNPVPSPANPPK,YSNDLYEL QASR	
IPI00114232.1	O09106	Hdac1	Histone deacetylase 1	DGIDDESIEAIFK,QQTDIAVNWAGGL HHAK,YGEYFPGTGDLR,MTHNLLLNY GLYR,YYAVNYPLR,LHISPSNMTNQNT NEYLEK	YGEYFPGTGDLR,LGCFNLTIK
IPI00896654.1	B2RRP3	Hdac2	histone deacetylase 2	YYAVNFPMPR,DGIDDESYGQIFKPIISK, LHISPSNMTNQNTPEYMEK,YGEYFPG TGDLR,DGIDDESYGQIFK,MTHNLLL YGLYR	
IPI00137694.5	Q3SXD3	Hdc2	HD domain-containing protein 2	QITQLLPEDLR,FSHPEIVQLVSELETE R	
IPI00313817.1	P51859	Hdgf	Hepatoma-derived growth factor	KGFSEGLWEIENNPTVK,YQVFFFGTH ETAFLGPK,ESGDHEEEDKEIAALEGE RPLPVEVEK,GFSEGLWEIENNPTVK, NSTPSEPDSGQGPPAEEEEGEEAAK EEAEAQGVV,EIAALEGERPLPVEVEK, NSTPSEPDSGQGPPAEEEEGEEAAK	
IPI00123379.1	Q8VDJ3	Hdlbp	Vigilin	MVADLVENSYSISVPIFK,GNSLQEILE R,EALEALVPVTIEVEVPFDLHR,IVGEL EQMVSEDVPLDHR,FPDREENPVHSV EPSIQENGDEAGEGR,DKFPEVIINFPD PAQK,EENPVHVSVEPSIQENGDEAGE GR,LVGEIMQETGTR,IDLPAENSNSSET IIITGK	TTTIAVEVK,IEGDPQGVQQAQ,AS VITQVFHVPLEER,EALEALVPVTI EVEVPFDLHR,GAVITQIR,HEVLLI SAEQDKR,IIFPAAEDKDQDLITIIG K

IPI00411022.1	Heatr1	BAP28 protein		SLHGLEQGLLETVLSYINTVAQSM EK,NHLEEILK,LVPVLLAIVQHK,L DDAYSFQVISK,VLELAANILIK,IIG VFVDALPHVPEHR,ALDAVLEEHL K,DLGFMDFICSLVTR,EELLSHQSS QLTTFFLEALDFR,LLTFYNLADCI AEK,FAALITVLALAEK,LVEDLVCA GEK,GLVGNPLPSVR,YVQELHGA QR,TLATELSPR,VLQGVNSEMVL AQLLPMVEQLLEK,TVLVAAYGEK ,VPSQVNDGLGCLILLQR,VNALL PTETFISVIR,VVETLPHFISPYLEG LLTQVIHLEK,GISVDAEQIR,AATY MIICQISVK,SLGTIQQTR,VTLILEL LQHK,FELVIDHLIPK,KVVGSGGP K,AEEITSDATYVLQDLATLFDLQ NEEK	IIGVFVDALPHVPEHR,SGICSLHPLL R,DTAFAIGCTGLEELLGIDPAFEQF EAPLFSQLAK,RAAVQCLQALR,NVL GSALLCIAEVTSTLEALAIPLPSLM PSLLTAMK,LALPQTDPSSLR,QLIL SCLLNICQK,LLTFYNLADCIAEK,HS GVPLAR,EPTAVLK,KVVGSGGPK,G LVGNPLPSVRR
IPI00399686.1	Q8BQM4	Heatr3	HEAT repeat-containing protein 3		LGPLLLDSSLAVR,VNVVSILGITGSV LAK,NLSACGGFDVCDMMVAK,NIP QCMTPEQLMTLCR
IPI00121431.4	Q60848	Hells	Isoform 1 of Lymphocyte-specific helicase	LISQIQPEVNR,FLILDR,LVTANTID QK	GVPGPFLVCGPLSTLPNWMAEFKR ,HFTGGVMR,TVVEGNIPIESEVNLK, GVPGPFLVCGPLSTLPNWMAEFK
IPI00314989.2	Q4U2R1	Herc2	Isoform 1 of Probable E3 ubiquitin-protein ligase HERC2		LLLCCLLK,DVPHTESDMHLLSGPLS PNESFLR,RQSPAPALPIVVQLMEM GFPR,VAVALDKR,SAKPAFAGQVD LDLLR,YYANVIGPIQCEGLASLGM QVACA EK
IPI00649267.4	Q3UMA3	Hgs	Putative uncharacterized protein	RDETALQEEEEELQALALASQSEAE EK, NKILYLIQAWAHA FR,ILYLIQAWAHA FR ,NPHVALYALEVMESVVK	
IPI00108189.4	P70349	Hint1	Histidine triad nucleotide-binding protein 1	HISQISVADDDDESLLGHLMIVGK,MVV NEGADGGQSVYHIHLVHLGGR,KHISQ ISVADDDDESLLGHLMIVGK	CLAFHDISPQAPTHFLVIPK,AQVAQ PGGDTIFGK
IPI00311726.3	Q9JKY5	Hip1r	Huntingtin-interacting protein 1-related protein		QHYVLAGGMGTPSEEEPSRSPAP R,ILNSCTDLMK
IPI00228616.5	P43275	Hist1h1a	Histone H1.1	SLAAAGYDVEK,SGVSLAALK,PAGPS VSELIVQAVSSSK,KPAGPSVSELIVQA VSSSK,KKPAGPSVSELIVQAVSSSK	SLAAAGYDVEK,SGVSLAALK,KP AGPSVSELIVQAVSSSK,KKPAGP SVSELIVQAVSSSK,SGVSLAALK K
IPI00230133.5	P43276	Hist1h1b	Histone H1.5	ALAAGGYDVEK,KATGPPVSELITK,AK KPAAGVK	GGVSLPALK,ALAAGGYDVEK,GT GASGSFKLNKK,KPAGATPK,KAL AAGGYDVEK,SLVSKGTLVQTK,A LAAGGYDVEKNNSR,KATGPPVS ELITK,ATGPPVSELITK

IPI00223713.5	P15864	Hist1h1c	Histone H1.2	SGVSLAALK,ASGPPVSELITK,KALAAAGYDVEK,KASGPPVSELITK,KPAAAAVTK,SGVSLAALKKALAAAGYDVEK,GI LVQTK,ALAAAGYDVEK	SGVSLAALK,ASGPPVSELITK,KALAAAGYDVEK,GI SGPPVSELITK,ALAAAGYDVEK	KATGAATPK,SGVSLAALK,ASGPPVSELITK,GTGASGSFK,ALAAAGYDVEK
IPI00331597.6	P43277	Hist1h1d	Histone H1.3	SGVSLAALK,ASGPPVSELITK,KASGPPVSELITK,KALAAAGYDVEK,ALAAAGYDVEK,SGVSLAALKKALAAAGYDVEK	GTGASGSFKLNKK,SGVSLAALK,ASGPPVSELITK,SGVSLAALKK,KALAAAGYDVEK,KASGPPVSELITK,SLVSKGTLVQTK,ALAAAGYDVEKNNSR,ALAAAGYDVEK	KATGAATPK,SGVSLAALK,ASGPPVSELITK,GTGASGSFK,ALAAAGYDVEK
IPI00223714.5	P43274	Hist1h1e	Histone H1.4	SGVSLAALK,KALAAAGYDVEK,KTSGPPVSELITK,ALAAAGYDVEK,SGVSLAALKKALAAAGYDVEK	TSGPPVSELITK,GTGASGSFKLNKK,SGVSLAALK,SGVSLAALKK,KALAAAGYDVEK,SLVSKGTLVQTK,ALAAAGYDVEKNNSR,ALAAAGYDVEK	SGVSLAALK,TSGPPVSELITK,GTGASGSFK,ALAAAGYDVEK
IPI00229542.1	Q8CGP4	Hist1h2aa	Histone H2A	AGLQFPVGR,NDEELNK,VTIAQGGVLPNIQAVLLPK,HLQLAIR,VTIAQGGVLPNIQAVLLPKK,NDEELNKLLGR,HLQLAIRNDEELNK,HLQLAIRNDEELNKLLGR		AGLQFPVGR,HLQLAIR,VTIAQGGVLPNIQAVLLPK,IGAGAPVYLAADVLETAEVLELAGNAAR
IPI00229543.3	Q8CGP5	Hist1h2af	Histone H2A type 1-F	AGLQFPVGR,NDEELNK,HLQLAIR,VTIAQGGVLPNIQAVLLPK,VTIAQGGVLPNIQAVLLPKK,NDEELNKLLGR,HLQLAIRNDEELNK,HLQLAIRNDEELNKLLGR		
IPI00111957.3	P70696	Hist1h2ba	Histone H2B type 1-A	STITSREIQTAVRLLLLPGELAK,LAHYNK,IASEASR,HAVSEGTK,QVHPDTGISSK,EIQTAVR,EIQTAVRLLLLPGELAK,LAHYNKR,AMSIMNSFVTDIFER,LLLLPGELAK	STITSREIQTAVRLLLLPGELAK,HA VSEGKAVTK,VLKQVHPDTGISSK,QVHPDTGISSK,IASEASRLAHYNKR,KESYSIYIK,EIQTAVR,EIQTAVRLLLLPGELAK,STITSREIQTAVR,HAVSEGKAVTKYTSSK,LLLLPGELAK	
IPI00761713.2	Q8CGP2-2	Hist1h2bp	Isoform 2 of Histone H2B type 1-P	STITSREIQTAVRLLLLPGELAK,LAHYNK,HAVSEGTK,IASEASR,QVHPDTGISSK,AMGIMNSFVNDIFER,EIQTAVRLLLLPGELAK,EIQTAVR,LAHYNKR,LLLLPGELAK	QVHPDTGISSK,AMGIMNSFVNDIFER	AMGIMNSFVNDIFER,QVHPDTGISSK,KESYSVYVYK,ESYSVYVYK,EIQTAVR,LLLLPGELAK
IPI00459318.1	Q8C622	Hist1h2bp	Putative uncharacterized protein	LAHYNK,KESYSVYVYK,LAHYNKR	KESYSVYVYK,ESYSVYVYK,SRKESYSVYVYK,ATGIMNSFVNDIFER	
IPI00553538.3	P68433	Hist1h3a	Histone H3.1		YRPGTVALR,FQSSAVMALQEACEAYLVGLFEDTNLCAIHAK,EIAQDFK,RVTIMPK,STELLIR,KLPFQR	YRPGTVALR,FQSSAVMALQEACEAYLVGLFEDTNLCAIHAK,EIAQDFK,RVTIMPK,STELLIR,KLPFQR

IPI00330000.4	Q6GSS7	Hist2h2aa2	Histone H2A type 2-A	AGLQFPVGR,HLQLAIR,VTIAQGGVLP NIQAVLLPK,NDEELNK,VTIAQGGVLP NIQAVLLPKK,HLQLAIRNDEELNK,VG AGAPVYMAAVLEYLTAEILELAGNAAR	AGLQFPVGR,HLQLAIR,VTIAQGG VLPNIQAVLLPK,NDEELNK,VGAG APVYMAAVLEYLTAEILELAGNA R	
IPI00623951.3	Q64522	Hist2h2ab	Histone H2A type 2-B	AGLQFPVGR,NDEELNK,VTIAQGGVL PNIQAVLLPK,LLGGVTIAQGGVLPNIQ AVLLPK,VTIAQGGVLPNIQAVLLPKK,V GAGAPVYMAAVLEYLTAEILELAGNAAR	AGLQFPVGR,NDEELNK,VTIAQGG VLPNIQAVLLPK,LLGGVTIAQGG VLPNIQAVLLPK,VGAGAPVYMA AVLEYLTAEILELAGNAAR	AGLQFPVGR,VTIAQGGVLPNIQAVL LPK,LLGGVTIAQGGVLPNIQAVLLP K,HLQLAVR,LLGGVTIAQGGVLPNI QAVLLPKK,VGAGAPVYMAAVLEYLT AEILELAGNAAR
IPI00379693.1		Hist2h3c1	unnamed protein product		YRPGTVALR,EIAQDFK,RVTIMPK ,STELLIR,FQSSAVMALQEASEAY LVGLFEDTNLCAMHAK,KLPFQR	
IPI00282848.1	Q8CGN9	Hist2h3c1	histone cluster 2, H3c1		FQSSAVMALQEASEAYLVGLFED TNLCAIHAK,YRPGTVALR,EIAQD FK,RVTIMPK,STELLIR,KLPFQR	FQSSAVMALQEASEAYLVGLFEDT NLCAIHAK,YRPGTVALR,EIAQDFK, RVTIMPK,STELLIR,KLPFQR
IPI00283611.1	P17710	Hk1	Isoform HK1-SA of Hexokinase-1		SANLVAATLGAILNR,GAAMVTAV AYR,VTVGVDGTLYK,GDFLALDL GGTNFR,LSDEILIDILTR	
IPI00114342.1	O08528	Hk2	Hexokinase-2		GSGTQLFDHIAECLANFMDK,GA ALITAVACR,LDESFLVSWTK,TVF DVAVDELSLNP GK,GAAMVTAVA YR,LSDETLLEISR,ICQIVSTR,DVS DIEDDKDGIQK,VTVGVDGTLYK,L SHEQLLEV K,GLGATTHPTAAVK, ASGCEGEDVVTLLK,GDFLALDLG GTNFR,DVVDLIR	LGLSPLQEDCVATHR,LSPELLTTGS FETK
IPI00408022.4	Q3TIV0	Hmbs	hydroxymethylbilane synthase isoform 1			GAQLAAENLGISLASLLLNK,DVPTIL PPGFTIGAICK
IPI00467235.4		Hmcn1	hemicentin 1			LVIQAQVSDTGlyQCvatniAGDH R,VSLTVHVPPSIK,NLMGSVLR,TG ALFISNLWASDK,QSVTLTCEVR,CV VHCGTGFRR,ILSSGAIEIPTTQLNH AGR,SQGVGRPCIDINECEQVPKPC AHQCSNSPGSFK,MIPDSTNVEILTG GQTLHIR,LCDNPPPANGGRPCQG ADSEAR
IPI00314240.5	P17095	Hmga1-rs1	Isoform HMG-I of High mobility group protein HMG-I/HMG-Y			SSQPLASK,QPPVSPGTALVGSQK, KQPPVSPGTALVGSQK
IPI00462291.5	P30681	Hmgb2	High mobility group protein B2		RPPSAFFLFCSENRPK,IKIEHPGL SIGDTAK,IEHPGLSIGDTAK,KHP DSSVNFAEFSK,MSSYAFFVQTC R,SKFEDLAK	HPDSSVNFAEFSK,IEHPGLSIGDTA K,SKFEDLAK

IPI00752490.1	Q8VDR2	Hmmr	Hmmr protein	HIAAAHQAILIAQEK,LTELTRANELLK,E SQQNLNIDKDTLLASAK,SVEDVQQQ ILTAESTNQEYAR,QALLNEHGATQEQ LNK,DVTAQLESEQEK
IPI00314755.5	P97825	Hn1	Hematological and neurological expressed 1 protein	VLRPPGGGSNFSLGFDEPAEQPVR,P VPAAPVPSVPAPVPSR,SNSSEASS GDFLDLK,MASNIFGTPEENPPSWAK, GEGDMHENVDTDFQANLAQMEEK,VL RPPGGGSNFSLGFDEPAEQPVRK
IPI00109813.1	Q9CX86	Hnmpa0	heterogeneous nuclear ribonucleoprotein A0	AEIIADK,GDVAEGDLIEHFSQFGAVEK, LFIGGLNVQTSSEGLR GHFEAFGLTDCVVVNPQTK,S GGGGGGGGSWGGR,GDVAEGD FHPIQGHR,SGGGGGGGGGSWGGR, LIEHFSQFGAVEK,LFIGGLNVQTS GDVAEGDLIEHFSQFGAVEK ESGLR,GFGFVYFQSHDAADK
IPI00553777.2	Q3UK83	Hnmpa1	Putative uncharacterized protein	KIFVGGIK,GNFVGGR,EDSQRPGAHL TVK,NQGGYGGSSSSSYGSGR,SSG PYGGGGQYFAK,RGFAFVTFDDHDSV DK,GFAFVTFDDHDSVDK,KLFIGGLSF ETTDESLR,SESPKEPEQLR,SSGPY GGGQYFAKPR,GFGFVYATVEEVDA AMNAR,IFVGGIKEDTEEHHLR,LFIGGL SFETTDESLR,IEVIEIMTDR,IFVGGIK,S ESPKEPEQLRK,EDTEEHHLR KIFVGGIK,EDSQRPGAHLTVK,NQ GGYGGSSSSSYGSGR,SHFEQ WGTLTDCVVMR,SSGPYGGGGQ YFAK,RGFAFVTFDDHDSVDK,GF AFVTFDDHDSVDK,SESPKEPEQ LR,KLFIGGLSFETTDESLR,GFGF VTYATVEEVDAAMNAR,IFVGGIK EDTEEHHLR,LTDCVVMR,LFIGGL SFETTDESLR,YHTVNGHNCEVR, IEVIEIMTDR,SESPKEPEQLRK
IPI00269661.1	Q8BG05	Hnmpa3	Isoform 1 of Heterogeneous nuclear ribonucleoprotein A3	KIFVGGIK,GFGFVYSCVEEVDAAMC AR,LFIGGLSFETDDSLREHFEK,RGF AFVTFDDHDTVDK,EDTEYNLR,DYF EK,EDSVKPGAHLTVK,RGEEGHDPKE PEQLR,IFVGGIKEDTEEYNLRDYFEK, GFAFVTFDDHDTVDK,LFIGGLSFETD DSLRL,SSGSPYGGGYGSGGGGGY SR,DYFEKYGK,KLFIGGLSFETDDSL R,IFVGGIKEDTEEYNLR,KLFIGGLSFE TTDDSLREHFEK,IETIEVMEDR,IFVGG IK LFIGGLSFETDDSLR,GFAFVTFD DHTVDK,YHTINGHNCEVK,RGF AFVTFDDHDTVDK,LFIGGLSFET TDDSLREHFEK,EDTEYNLR,KL FIGGLSFETDDSLR,EDSVKPGA HLTVK,LTDCVVMR,IFVGGIKEDT EEYNLR,IETIEVMEDR
IPI00277066.4	Q20BD0	Hnmpab	heterogeneous nuclear ribonucleoprotein A/B isoform 1	GFVFITFKEEDPVK,RGFVFITFK,MFVG GLSWDTSKK,IFVGGLNPEATEEKIR,G FGFILFK,EYFGQFGEIEAIELPIDPK,MF VGGLSWDTSK,GFVFITFKEEDPVKK,K IFVGGGLNPEATEEK,IFVGGGLNPEATEE K,EVYQQQQYGS GGR,FGFVITFKDSS SVEK,GFVFITFK,IREYFGQFGEIEAIEL PIDPK,SRGFGFILFKDSSSVEK,MDPN TGRSRGFGFILFK EVYQQQQYGS GGR,IFVGGGLNPE ATEEK,RGFVFITFK,GFVFITFK,G FGFILFK,MFVGGLSWDTSK,EYF GQFGEIEAIELPIDPK,GFVFITFKE EDPVKK,FGEVVDCTIK

IPI00130343.2	Q3U6P5	Hnrnpc	Putative uncharacterized protein		LKGDDLQAIK,VFIGNLTLLVVK,LK GDDLQAIK,VPPPPPIAR,GFAFV LKGDDLQAIK,VFIGNLTLLVVK,VPP QYVNER,SEEEQSSASVK,MIAGQ PPPIAR,VDSLLESLEK,IVGCSVHK VLDINLAAEPK,KSDVEAIFSK
IPI00330958.2	Q60668	Hnrnpd	Isoform 1 of Heterogeneous nuclear ribonucleoprotein D0	GFCFITFK,MFIGGLSWDTTK,IFVGGLS PDTPEEK,EYFGGFGEVESIELPMDNK ,EYFGGFGEVESIELPMDNKTNK,GFG FVLFKESVVDKVMQK,IREYFGGFG EVESIELPMDNK,SRGFGFVLFKES VDK,SRGFGFVLFK,IFVGGLSPDTPEE KIR,GFGFVLFK	GFCFITFK,IFVGGLSPDTPEEK,Y HNVGLSK,GFGFVLFK GFCFITFK,IFVGGLSPDTPEEK,YHN VGLSK
IPI00226073.2	Q9Z2X1	Hnrnpf	Isoform 1 of Heterogeneous nuclear ribonucleoprotein F	ITGEAFVQFASQELA EK,VTGEADVEF ATHEEAVAAMSK,GLPYKATENDIYNF FSPLNPVR,VTGEADVEFATHEEAVAA MSKDR,QSGEAFVELESEDDVK,ATEN DIYNFFSPLNPVR	ITGEAFVQFASQELA EK,VTGEAD VEFATHEEAVAAMSK,EEIVQFFS GLEIVPNGITLPVDPEGK,RYIGIV K,HSGPNSADSANDGFVR,PGPY DRPGTAR,VHIEIGPDGR,YIEVFK, ATENDIYNFFSPLNPVR ITGEAFVQFASQELA EK,HSGPNSA DSANDGFVR,RYIGIVK,PGPYDRPG TAR,VHIEIGPDGR,ATENDIYNFFSP LNPVR
IPI00224729.1	Q8C2Q7	Hnrnph1	Putative uncharacterized protein	VTGEADVEFATHEDAVAAMSK,EGRP SGEAFVELESEDEVK,SNNVEMDWVL K,YVELFLNSTAGASGGAYEHR,PSGE AFVELESEDEVK,STGEAFVQFASQEI AEK,ATENDIYNFFSPLNPVR	EEIVQFFS GLEIVPNGITLPVDFQ GR,EGRPSGEAFVELESEDEVK,Y VELFLNSTAGASGGAYEHR,VHIE IGPDGR,ATENDIYNFFSPLNPVR, STGEAFVQFASQEA EK HTGPNSPDTANDGFVR,GLPWSCS ADEVQR,VHIEIGPDGR,STGEAFVQ FASQEA EK,ATENDIYNFFSPLNPV R
IPI00108143.1	P70333	Hnrnp2	Heterogeneous nuclear ribonucleoprotein H2	VTGEADVEFATHEDAVAAMAK,EGRP SGEAFVELESEDEVK,ATENDIYNFFS PLNPMR,PSGEAFVELESEDEVK,STG EAFVQFASQEA EK	
IPI00224575.1	P61979-2	Hnrnpk	Isoform 2 of Heterogeneous nuclear ribonucleoprotein K	IILDLISESPIK,IITITGTQDQIQNAQYLL QNSVK,TDYNASVSVDPSSGPER,ILSI SADIETIGEILKK,LLIHQSLAGGIIGVK,G SYGDLGGPIITTQVTIPK,ILSISADIETIG EILK	RPAEDMEEEQAFKR,VVLIGGKP DR,ENTQTTIK,DLAGSIIGK,IIPTLE EGLQLPSPTATSQLPLESDAVEC LNYQHVK,GSYDGLGGPIITTQVTI PK,LLIHQSLAGGIIGVK,NLPLPPP PPPR,IILDLISESPIK,IITITGTQDQI QNAQYLLQNSVK,TDYNASVSVDP DSSGPER,ILSISADIETIGEILKK,I DEPLEGSEDR,ILSISADIETIGEIL K VVLIGGKPDR,DLAGSIIGK,IILDLISE SPIK,IITITGTQDQIQNAQYLLQNSV K,IIPTLEEGLQLPSPTATSQLPLESD AVECLNYQHVK,TDYNASVSVDPSS GPER,GSYDGLGGPIITTQVTIPK,LLI HQSLAGGIIGVK,NLPLPPPPPR,IL SISADIETIGEILK

IPI00620362.4	Q8R081	Hnrnpl	Heterogeneous nuclear ribonucleoprotein L	ASLNGADIYSGCCTLK,NDQDTWDYT NPNLSGQGDPGSPNPK,SKPGAAMVE MADGYAVDR,SDALETGLFLNHYQMK, NDQDTWDYTNPNLSGQGDPGSPNPK R	LKTENAGDQHGGGGGGSGAA GGGGGENYDDPHK,YGPQYGH PPPPPPDYGPHADSPVLMVYGL DQSK,YYGGGNEGGR,GLIDGVV EADLVEALQEFGPISYVVVMPK,AI THLNNFMFGQK,TENAGDQHG GGGGGSGAAGGGGGENYDDP HK,IQHPSNVLHFFNAPLEVTEEN FFEICDELGVK,VFNVFCLYGNVE K,LCFSTAQHAS,SSSGLLEWDSK ,FSTPEQAAK,ASLNGADIYSGCC TLK,NPNGPYPYTLK,IEYAKPTR,I SRPGSDDSR,SDALETGLFLNH YQMK,TPASPVVHIR	YYGGGNEGGR,ASLNGADIYSGCC TLK,ISRPGSDDSR,GLIDGVVEAD LVEALQEFGPISYVVVMPK,TENAG DQHGGGGGGSGAAGGGGGENY DDPHK,TPASPVVHIR
IPI00132443.3	Q9D0E1	Hnrmpm	Isoform 1 of Heterogeneous nuclear ribonucleoprotein M	VKEDPDGEHAR,AAEVLNK,INEILSNA LK,VGQTIER,MGAGMGFGLER,VGSEI ER,MGPLGLDHMASSIER,VGEVTVYE LLMDAEGK,GIGMGNLGPAGMGMEGI GFGINK	AFITNIPFDVK,LKEVFSMAGVVVR ,LGSTVFVANLDYK,VGQTIER,GN FGGSFAGSFGGAGGHAPGVAR, GCAVVEFK,VGEVTVVELLMDAE GK,DKFNECGHVLADIK,KAAEV LNK,INEILSNALK,ACQIFVR,FESP EVAER,EVFSMAGVVVR	AFITNIPFDVK,INEILSNALK,GNFGG SFAGSFGGAGGHAPGVAR,GCAVV EFK,GIGMGNLGPAGMGMEGIGFI NK
IPI00128441.3	Q8VHM5	Hnrnpr	Putative uncharacterized protein	YGGPPPDSVYSGVQPGIGTEVFVGK,T GYTLDVTTGQR,VTEGLVDVILYHQPD DK,NLATTVTEEILEK,AGPIWDLR	TGYTLDVTTGQR,VTEGLVDVILY HQPDDK,EIEGEEIEIVLAKPPDKK ,LFGVSIPK,NLATTVTEEILEK,AG PIWDLR	
IPI00458583.3	Q8VEK3	Hnrnpu	Putative uncharacterized protein		DLPEHAVLK,VSELKEELKK,MCLF AGFQR,LNTLLQR,GNFTLPEVAE CFDEITYVELQK,APQCLGK,GYF EYIEENK,NFILDQTNVSAQAQR,K AVVVCVK,AVVVCVK,LSASSLTM ESFAFLWAGGR,GYFYEIENKYS R,LLEQYKEESK,EKPYFPIPEDCT FIQNVPLEDR,DIDIHEVR,FIEIAR ,SSGPTSLFAVTVAPPGAR,NGQD LGVAFK,EVLADRPLFPHVLCHNC AVEFNFGQK,LLEQYKEESK,VS ELKEELK,KDCEVMMIGLPGAGK	DLPEHAVLK,PWSQHYHQGY,MCL FAGFQR,LNTLLQR,NFILDQTNVSA AAQR,AVVVCVK,YNILGTNTIMDK,N QSQYQWQQQGFQWQK,LSASS LTMESFAFLWAGGR,EKPYFPIPED CTFIQNVPLEDR,FIEIAR,SSGPTS LFAVTVAPPGAR,NGQD ALDNEAGGR
IPI00123501.3	Q8VDM6	Hnrnpul1	Isoform 1 of Heterogeneous nuclear ribonucleoprotein U-like protein 1	APQQQPPPPQPPPPQPPPPQPPPP SYSPAR,LLAALEAEPEPDER,YNILGT NAIMDK,QNQFYETPVIK,NYILDQTNV YGSAQR,RPLDMEPQQQVYHPELK,Q EAPPSFLPPEASQLK		

IPI00755892.1		Hnrpd1	heterogeneous nuclear ribonucleoprotein D-like	QHPLADGSATMEDMNEYSNIEEFAEG SK,VFVGGLSPDTSEEQIKEYFGAFGEI ENIELPMDTK,VFVGGLSPDTSEEQIK, SAAAAAGTR,EYFGAFGEIENIELPMDT K,DLTEYLSR,SRGFGFVLFK,MFIGGLS WDTSK,GFGFVLFK	FGEVVDCTIK,GFGFVLFK	VFVGGLSPDTSEEQIK,FGEVVDCTI K
IPI00395047.1	Q99JP6-2	Homer3	Isoform 2 of Homer protein homolog 3	ANTVYGLGFASEQQLTQFAEK,EAPDT AEREETQQVQDLETR		
IPI00284806.8	P00493	Hprt1	Hypoxanthine-guanine phosphoribosyltransferase	SVGYRPDFVGFGEIPDK,NVLIVEDIIDTG K,FFADLLDYIK	SVGYRPDFVGFGEIPDK,VIGGDDL STLTGK,NVLIVEDIIDTGK,FFADL LDYIK,FVVGALDYNEYFR	TMQTLLSLVK,SVGYRPDFVGFGEIPD K,VIGGDDLSTLTGK
IPI00128484.1	Q91X72	Hpx	Hemopexin	RLWWLDLK,LWWLDLK,VYLIQGTQVY VFLTK		
IPI00130235.2		Hs1bp3	HCLS1-binding protein 3	DVEKSLVGEEEEEEEEVLDPLGIMR ,HRPEDVVQFLVSK		
IPI00170051.2	Q8K3A0	Hscb	Co-chaperone protein HscB, mitochondrial	LADAQSEAAMEEIEATVR,ADSQFLVEI MEINER		
IPI00830581.1	Q99N15	Hsd17b10	hydroxyacyl-Coenzyme A dehydrogenase type II		FGRIDVAVNCAGIAVAIKTYHQK,L GDPAEYAHLVQTIENPFLNGEVI R,VVTIAPGLFATPLLTTLPEK,VIN VNLIGTFNVIR	
IPI00119219.2	O70503	Hsd17b12	Isoform 1 of Estradiol 17-beta-dehydrogenase 12		AFVDFFSQCLHEEYK,TIAVDFSL DDIYDK,LININVLSVCK	GIFVQSVMPYLVATK,PTLDKPSAET FVK
IPI00331628.5	P51660	Hsd17b4	Peroxisomal multifunctional enzyme type 2			LPSFSSSYTELQSIMYALGVGASVK, SGSGEVYQGPAK

IPI00330804.4 P07901 Hsp90aa1 Heat shock protein HSP 90-alpha

EGLELPEDEEEK,SLTNDWEEHLAVK,
VILHLKEDQTEYLEERR,KHGLEVIYMI
EPIDEYCVQQLK,HIYFITGETK,YYTSA
SGDEMVS LK,APFDLFENR,NPDDITNE
EYGEFYK,VILHLKEDQTEYLEER,RAP
FDLFENR,HLEINPDHSIIETLR,ELHINLI
PSK,HSQFIGYPITLFVEK,HFSVEGQLE
FR,TLTIVDTGIGMTK,HNDDEQYAWES
SAGGSFTVR,ADLNNLGTIAK

TKPIWTR,IRYESLTDPSK,YIDQE
ELNK,LGIHEDSQNRK,HGLEVIYMI
IEPIDEYCVQQLK,KHLEINPDHSII
ETLR,YYTSASGDEMVS LK,LGLGI
DEDDPTVDDTSAAVTEEMPPLEG
DDDTSR,APFDLFENR,DQVANSA
FVER,TDGTGEMGR,KHSQFIGYP
ITLFVEK,RAPFDLFENR,TKFENL
CK,YESLTDPSK,HSQFIGYPITLF
VEK,HFSVEGQLEFR,DNSTMGY
MAAK,FYEQFSK,EGLELPEDEEEK
KK,ALLFVPR,LGIHEDSQNR,YES
LTDPSKLD SGK,EGLELPEDEEEK
,SLTNDWEEHLAVK,VFIMDNCEE
LIPEYLN FIR,HIYFITGETK,KHGLE
VIYMI EPIDEYCVQQLK,EGLELPE
DEEEKK,ELISNSSDALDK,EML
QQSK,NPDDITNEEYGEFYK,VILH
LKEDQTEYLEER,EDQTEYLEER,
HLEINPDHSIIETLR,ELHINLIPSK,
LVTSPCCIVTSTYGWTANMER,TL
TIVDTGIGMTK,FENLCK,DLVILLY
ETALLSSGFSLEDPQTHANR,HN
DDEQYAWESSAGGSFTVR,ADLI
NNLGTIAK

TKPIWTR,YIDQEELNK,HGLEVIYMI
EPIDEYCVQQLK,YYTSASGDEMVS
LK,APFDLFENR,AFMEALQAGADIS
MIGQFVG VGFYSAYLVAEK,DQVANSA
AFVER,TDGTGEMGR,TKFENLCK,Y
ESLTDPSK,HSQFIGYPITLFVEK,HF
SVEGQLEFR,FYEQFSK,LGIHEDSQ
NR,ALLFVPR,EGLELPEDEEEK,SLT
NDWEEHLAVK,VFIMDNCEELIPEYL
NFIR,HIYFITGETK,ELISNSSDALDK,
EMLQQSK,NPDDITNEEYGEFYK,E
DQTEYLEER,HLEINPDHSIIETLR,EL
HINLIPSK,LVTSPCCIVTSTYGWTAN
MER,TLTIVDTGIGMTK,FENLCK,DL
VILLYETALLSSGFSLEDPQTHANR,
ADLNNLGTIAK

IPI00229080.7	Q71LX8	Hsp90ab1	MCG18238	<p>TKPIWTR,IRYESLTDPSK,YIDQE ELNK,IDIIPNPQER,FYEAFSK,LGL GIDEDEVTAEEPSAAVPDEIPPLE GDEDASR,KHLEINPDHPVETLR, TKPIWTR,IDIIPNPQER,YIDQEELNK VFIMDSCDELIPEYLNFI,YESLT ,LGLGIDEDEVTAEEPSAAVPDEIPP DPSK,ELISNASDALDK,HFSVEG LEGDEDASR,AFMEALQAGADISMI QLEFR,EQVANSFAVER,YHTSQS GQFGVGFYSAYLVAEK,VFIMDSCD EGLELPEDEEEK,HSQFIGYPITLYLEK, GDEMTSLSEYVSR,APFDLFENK, ELIPEYLNFI,YESLTDPSK,ELISNA HFSVEGQLEFRALLFIPRR,VILHLKED EGLELPEDEEEK,RLSELLR,YES SDALDK,HFSVEGQLEFR,EQVANS QTEYLEERR,SLTNDWEDHLAVK,VILH LTDPKLDGSG,HSQFIGYPITLYL AFVER,YHTSQSGDEMTSLSEYVSR LKEDQTEYLEER,KHLEINPDHPVETL EK,EGLELPEDEEEK,AKFENLCK, ,APFDLFENK,CLELFSELAEDK,HSQ R,ELISNASDALDK,RAPFDLFENK,NPD LGIHEDSTNRR,GFEVVMTEPID FIGYPITLYLEK,EGLELPEDEEEK,A DITQEEYGEFYK,HFSVEGQLEFR,YHT EYCVQQLK,LGIHEDSTNR,EGLE KFENLCK,LGIHEDSTNR,ADHGEP SQSGDEMTSLSEYVSR,APFDLFENK, LPEDEEEKKK,ADHGEPGR,EML GR,DLVLLFETALLSSGFSLEDPQT HLEINPDHPVETLR,ADLNNLGTIAK,H QQSK,SLTNDWEDHLAVK,VILHL HSNR,SLTNDWEDHLAVK,EMLQQS NDDEQYAWESSAGGSFTVR KEDQTEYLEER,EDQTEYLEER,A K,EDQTEYLEER,ALLFIPR,RAPFDL LLFIPR,RAPFDLFENK,NPDDITQ FENK,NPDDITQEEYGEFYK,LVSSP EEYGEFYK,LVSSPCCIVTSTYGW CCIVTSTYGTANMER,FENLCK,HL TANMER,RGFEVVMTEPIDEYC EINPDHPVETLR,SIYYITGESK,ADLI VQQLK,FENLCK,HLEINPDHPIVE NNLGTIAK TLR,SIYYITGESK,RAPFDLFENK ,ADLNNLGTIAK,HNDDEQYAW SSAGGSFTVR</p>
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IPI00129526.1	P08113	Hsp90b1	Endoplasmin	<p>KEAESSPFVER,FQSSHSTDITS LDQYVER,GYEVYLTPEVDEYCI QALPEFDGKR,KYSQFINFPIYVW SSK,SGTSEFLNK,LIINSLYK,DIST NYASQK,SILFVPTSAPR,YSQFI LISLTDENALAGNEELTVK,ELISNAS ELISNASDALDK,EEEEIQLDGLNASQI NFPIYVWSSK,TDDEVVQREEEAI DALDK,FQSSHSTDITSLDQYVER, R,FQSSHSTDITSLDQYVER,GVVDS QLDGLNASQIR,GLFDEYGSK,KG FAFQAEVNR,LGVIEDHSNR,LIINSL DDLPLNVS,ILFVPTSAPR,NLLHVT YEVIYLTPEVDEYCIQALPEFDGK, YK,GVVDSDDLPLNVS,RFQNVAK, DTGVMTR LISLTDENALAGNEELTVK,EEASD SILFVPTSAPR,YSQFINFPIYVWSSK YLELDTIK,ELISNASDALDK,EEEE ,PIWQRPSK IQLDGLNASQIR,FAFQAEVNR,LG VIEDHSNR,GVVDSDDLPLNVS, SGYLLPDTK,KTLDMIK,GTTITLV K,NLLHVTDTGVMTR</p>
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IPI00652428.1	Q99M31-2	Hspa14	Isoform 2 of Heat shock 70 kDa protein 14	FTVLFPSGTPLPAR,SALGEAAGAA GFNVLR
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IPI00346073.1	P17879	Hspa1b	Heat shock 70 kDa protein 1B	IINEPTAAAIAYGLDR,VEIANDQGNR, QTQTFTTYSNQPGLIQVYEGER	VEIANDQGNR,QTQTFTTYSNQP GVLIQVYEGER,NAVITVPAYFNDSQ R,TTPSYVAFTDTER,ITITNDK,VCSP IISGLYQGAGAPGAGGFGAQAPPK
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IPI00133208.3	P16627	Hspa1l	Heat shock 70 kDa protein 1L	VEIANDQGNR,IINEPTAAAIAYGLDK
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IPI00331556.5	Q61316	Hspa4	Heat shock 70 kDa protein 4	<p>KEDIYAVEIVGGATR,HAEQNGPVDGQ GDNPGSQA AEHGADTAVPSDGDK,FV SEDDRNTFTLK,AGGIETIANEYS DR,L MNETTAVALAYGIYK,LEDTENWLYED GEDQPK,NAVEEYVYEMR,GCALQCAI LSPAFK,VLATAFDTTLGGR,NFTTEQV TAMLSSK,SNLAYDIVQLPTGLTG I K, VHGIFSVSSAALVEVHK,ELSTTLNADE AVTR,MQVDQEEPHTEEQQQPQTPA ENK,EDIYAVEIVGGATR</p>	<p>KEDIYAVEIVGGATR,NHAAPFSK, QDLPAL EEEKPR,AGGIETIANEYS DR,LKETAESVLK,GCALQCAILSP AFK,NAVEEYVYEMR,NFTTEQVT AMLLSK,SNLAYDIVQLPTGLTG I K, ,FQESEERPK,ELSTTLNADEAVT R,LKKEDIYAVEIVGGATR,LFEEL GK,NKEDQYEH LDAADVTK,MQV DQEEPHTEEQQQPQTPAENK, NVVFVDMGHSAYQVSVCAFNK,H AEQNGPVDGQGDNPGSQA AEH GADTAVPSDGDK,KFDEVLVNHF CEEFGK,LMNETTAVALAYGIYK,S VMDATQIAGLNCLR,VLATAFDTT LGGR,KPVVDCVSVPSFYTDAE R,EPFTLEAYYSSPQDL PYPDAI AQFSVQK,VNVHGIFSVSSAALVE VHK,SQVISNAK, EFSITDVVPYPI LR,EDIYAVEIVGGATR</p>	<p>WNSPAEEGLSDCEVFPK,AGGIETI ANEYS DR,QDLPAL EEEKPR,FVSED DR,AFSDPFVEAEK,ELTSICSPIISK, SVM DATQIAGLNCLR,GCALQCAILS PAFK,VLATAFDTTLGGR,NFTTEQV TAMLSSK,KPVVDCVSVPSFYTDA ER,SNLAYDIVQLPTGLTG I K,FQESE ERPK,QLTVDPVVK,ELSTTLNADE AVTR,EFSITDVVPYPI SLR,LFEELG K</p>
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IPI00317710.1	P48722	Hspa4l	Isoform 1 of Heat shock 70 kDa protein 4L	<p>NAVEEYVYDFR,LMNETTAVALAYGIY K,GCALQCAILSPAFK</p>
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IPI00319992.1	P20029	Hspa5	78 kDa glucose-regulated protein	<p>TFAPEEISAMV LTK,FEELNMDLFR,SQI FSTASDNQPTVTIK,VEI IANDQGNR,IIN EPTAAAIAYGLDKR,KSDIDEIVLVGGS TR,IINEPTAAAIAYGLDK,NELESYAYS LK,NQLTSNPENTVFD AK,ELEEIVQP I SK,ITPSYVAFTPEGER,IEWLESHQDA DIEDFK,GVPQIEVTFEIDVNGILR,TKP YIQVDIGGGQTK,IEWLESHQDADIEDF KAK,DNHLLGTFDLTGIPPAPR,MKETA EAYLGK,VTHAVVTPAYFNDAQR,SDI DEIVLVGGSTR,IEIESFFEGEDFSETLT R,AKFEELNMDLFR,LYGSGGPPPTGE EDTSEKDEL</p>	<p>TFAPEEISAMV LTK,VEI IANDQGN R,SQIFSTASDNQPTVTIK,KSDIDE IVLVGGSTR,IINEPTAAAIAYGLDK ,IINEPTAAAIAYGLDKR,NQLTSNP ENTVFD AK,NELESYAYSLK,ELEE IVQPIISK,ITPSYVAFTPEGER,IEW LESHQDADIEDFK,LTPEEIER,GV PQIEVTFEIDVNGILR,TKPYIQVDI GGGQTK,ITITNDQNR,DNHLLGTF DLTGIPPAPR,MKETA EAYLGK,VT HAVVTPAYFNDAQR,SDIDEIVL VGGSTR,TWN DPSVQQDIK,IEIES FFEGEDFSETLTR,AKFEELNMDL FR,VYEGERPLTK,KKELEEIVQP I SK</p>	<p>TKPYIQVDIGGGQTK,ITITNDQNR,S QIFSTASDNQPTVTIK,VEI IANDQGN R,DNHLLGTFDLTGIPPAPR,IINEPT AAIAYGLDK,NQLTSNPENTVFD AK, ,ELEEIVQPIISK,VTHAVVTPAYFN DAQR,ITPSYVAFTPEGER,TWN DP SVQQDIK,VYEGERPLTK</p>
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IPI00323357.3	P63017	Hspa8	Heat shock cognate 71 kDa protein	<p>VQVEYKGETK,HWPFMVNDAG RPK,ARFEELNADLFR,MKEIAEAY L GK,NQVAMNPTNTVFDAK,FEEL NADLFR,SFYPEEVSSMVLTK,GT CNEIISWLDK,NQVAMNPTNTVFDA K,FEELNADLFR,SFYPEEVSSMVLTK, LDPVEK,GVPQIEVTFDIDANGILN K,GTLDPVEK,VQVEYK,QTQFTTTY VSAVDK,VQVEYK,QTQFTTYSYSD K,SDNQPGVLIQVYEGER,DNNLLGK, NQPGVLIQVYEGER,RFDDAVVQ SDNQPGVLIQVYEGER,LLQDFFNGK, SDMK,TLSSSTQASIEIDSLYEGID NQTAEEKEEFEHQK,LLQDFFNGK, FYTSITR,NQTAEEKEEFEHQK,LL RNTTIPTK,IINEPTAAAIAYGLDKK,S QDFFNGK,RNTTIPTK,LSKEDIER, QIHDIVLVGGSTR,VEIANDQGNR,II IINEPTAAAIAYGLDKK,SQIHDI NEPTAAAIAYGLDK,VCNPIITK,MVN VGGSTR,VEIANDQGNR,IINEPTA HFIAEFK,GPAVGIDLGTTYSCVGF AAIAYGLDK,VCNPIITK,MVNHFI QH GK,EIAEAYLGK,ITITNDK,STAG EFK,NSLESYAFNMK,EIAEAYLGK DTHLGGEDFDNR,DAGTIAGLNVL R,STAGDTHLGGEDFDNR,SENV ,GP AVGIDLGTTYSCVGFQHGK,I SENVDLLLDVTPSLGIETAGGV TITNDK,NTTIPTK,DAGTIAGLNVL MTVLIK,FELTGIPPAPR,SINPDEAV R,STAGDTHLGGEDFDNR,SENV AYGAAVQAAILSGDK,TVTNAVVT QDLLLLDVTPSLGIETAGGVMTV PAYFNDSQR,TTPSYVAFTDTER,FD LIK,MVQEA EK,SINPDEAVAYGAA DAVVQSDMK VQAAILSGDK,TVTNAVVTVPAYF NDSQR,TTPSYVAFTDTER,FDDA VVQSDMK</p>
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IPI00880839.1	Q7TSZ0	Hspa9	heat shock protein 9	<p>VEAVNMAEGIIHDTETK,AQFEGIVTDLI K,VQQTVDLFGFR</p> <p>TTPSVVAFTADGER,ETAENYLGH TAK,SDIGEVILVGGMTR,VIAYVD LGGGTFDISILEIQK,NTTIPTK,LY SPSQIGAFVLMK,MEEFKDQLPAD RNTTIPTK,LLGQFTLIGIPPAPR,VLE ECNK,STNGDTFLGGEDFDQALL NAEGAR,ASNGDAWVEAHGK,ETA R,SQVFSTAADGQTQVEIK,VEAV ENYLGHTAK,NAVITVPAYFNDSQR, NMAEGIIHDTETK,AQFEGIVTDLI SDIGEVILVGGMTR,VINEPTAAALA K,AMQDAEVSK,RNTTIPTK,ERVE YGLDK,EQQIVIQSSGGLSK,RYDDP AVNMAEGIIHDTETK,LLGQFTLIGI EVQK,LYSPSQIGAFVLMK,QAVTNP PPAPR,VLENAEGAR,ASNGDAW NNTFYATK,STNGDTFLGGEDFDQA VEAHGK,NAVITVPAYFNDSQR,G LLR,VEAVNMAEGIIHDTETK,DAGQI VPQIEVTFDIDANGIVHVS AK,VIN SGLNVL R,AQFEGIVTDLIK,VQQT EPTAAALAYGLDK,MKETAENYL QDLFGR HTAK,NTTIPTK,EQQIVIQSSGGL SK,RYDDPEVQK,GAVVGIDLGTT NSCVAVMEGK,DAGQISGLNVL R, VQQTVDLFGFR</p>
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IPI00128522.1	P14602	Hspb1	Isoform A of Heat shock protein beta-1	AVTQSAEITIPVTFEAR,QLSSGVSEIR, HEERQDEHGYISR,KYTLPPGVDPTLV SSLSPEGLTVEAPLPK,RVPFSLLR, LPDEWSQWFSAAAGWPGYVR, LFDQA FGVPR,EGVVEITGK,PLPAATAEGPAA VTLAAPAFSR,AVTQSAEITIPVTFEAR AQIGGPEAGK,VSLDVNHFAPEELTVK, QDEHGYISR,AQIGGPEAGK,YTLPPGV DPTLVSSLSPEGLTVEAPLPK,AQIG GPEAGKSEQSGAK	AVTQSAEITIPVTFEAR,LFDQAFG VPR,EGVVEITGK,KYTLPPGVDPT LVSSLSPEGLTVEAPLPK,PLP AATAEGPAAVTLAAPAFSR,LPDE WSQWFSAAAGWPGYVR,VSLDVN HFAPEELTVK,AQIGGPEAGK,YTL PPGVDPTLVSSLSPEGLTVEA PLPK,TKEGVVEITGK	AVTQSAEITIPVTFEAR,SPSWEPFR, LFDQAFGVPR,EGVVEITGK,QLSSG VSEIR,PLPAATAEGPAAVTLAAPAF SR,VSLDVNHFAPEELTVK,QDEHG YISR,AQIGGPEAGK,YTLPPGVDPT LVSSLSPEGLTVEAPLPK,DWYP AHSR
IPI00308885.6	P63038	Hspd1	Isoform 1 of 60 kDa heat shock protein, mitochondrial	KPLVIIAEDVDGEALSTLVLNR,LVQDV ANNTNEEAGDGTTTATVLAR,GVMLA VDAVIAELK,ALMLQGVDLLADAVAVT MGPK	KPLVIIAEDVDGEALSTLVLNR,VG LQVVAVK,VGEVIVTK,TALLDAAG VASLLTTAEAVVTEIPK,NAGVEG SLIVEK,IQEITEQLDITTSEYEK,IS SVQSIVPALEIANHR, LSDGVAVL DALNATR,TVIIEQSWGSPK,ALML QGVDLLADAVAVTMGPK,DMAIA TGGAVFGEEGLNLELVQAHDL GK,KISSVQSIVPALEIANHR,LVQ DVANNTNEEAGDGTTTATVLAR, GVMLAVDAVIAELK,APGFGDNR,I PAMTIAK,IQEITEQLDITTSEYEKE K,TLNDELEIIEGMK,GYISPYFINT SK,APGFGDNRK,TALLDAAGVAS LLTTAEAVVTEIPKEEK,IGIEIHK,IGI EIKR,VGGTSDVEVNEK,AAVEEG IVLGGGCALLR,GVMLAVDAVIAE LKK	LVQDVANNTNEEAGDGTTTATVLA R,VGLQVVAVK,VGEVIVTK,APGFG DNR,IPAMTIAK,QSKPVTTPEEIAQV ATISANGDK,TALLDAAGVASLLTTA EAVVTEIPK,NAGVEGSLIVEK,ISSV QSIVPALEIANHR,LSDGVAVLK,TL NDELEIIEGMK,GANPVEIR,TALLDA AGVASLLTTAEAVVTEIPKEEK,DIG NIISDAMK,IGIEIHK,VTDALNATR,VG GTSDVEVNEK,AAVEEGIVLGGGCA LLR,CIPALDSLKPANEDQK,TVIIEQ SWGSPK,PVTTPEEIAQVATISANG DK,ALMLQGVDLLADAVAVTMGPK
IPI00263863.8	Q64433	Hspe1	10 kDa heat shock protein, mitochondrial	SGEIEPVSVK,FLPLFDR,DSDILGK,SA AETVTK,VVLDDKDYFLFR,VLQATVVA VGSGGK	VLLPEYGGTK,VLQATVAVGSG GKKG,KFLPLFDR,SGEIEPVSVK, FLPLFDR,GGIMLPEK,SAETVTK ,VVLDDKDYFLFR,VLQATVAVG SGGK	VLLPEYGGTK,SGEIEPVSVK,VLQA TVVAVGSGGK
IPI00515360.8		Hspg2	perlecan		AGNGQEATITVTVTR,AASISAVSL EVAQPGPSSGPR,KIPGDQIVSVV FIK,IPGDQIVSVVFIK,AELLVAEAP SKPITVTVEEQR,AEMLQALASLE AVLLQTVYNTK	

IPI00123802.5	Q61699	Hsph1	Isoform HSP105-alpha of Heat shock protein 105 kDa	AGGIETIANEFSDR,AEDVSAIEIVGGA TR,RGPFLEAFYSDPQGVPEAK,NI QQDNSEAGTQPQVQTDGQQTSQSPP SPELTSEESK,LMNDMTAVALNYGIYK, VLGTAFDPPFLGGK,GCALQCAILSPAF K,SVNEVMEWMNNVMNAQAK,VNTHG IFTISTASMVEK,DVSTTLNADEAVAR	NHAAPFSK,AEDVSAIEIVGGATR, LKETAENNLK,FVVQNVSAQK,NQ QITHANNTVSSFK,FQEAERPK, GCALQCAILSPAFAK,LVEHFCAEF LGGK,GCALQCAILSPAFAK	
IPI00271166.4		Htt	huntingtin	SMVPTHPALVLLWCQILLINHTDHR,N SAASGLFIQAIQSR		
IPI00463909.3	A2AFQ0	Huwe1	HECT, UBA and WWE domain containing 1		LEHEVDLCR,LFLASLAAAGSGTD AQVALVNEVK,IKGPNVQLVK,LL VGNDVHIIAR,TTSNLTHYIHIEQL DK,EVLQNLGIRPPTTR,LLAELVR ,LLGPSAAADILQLSSSLPLQSR,L YIVFEGEEGQDAGLLR,SHHAA STTTAPTAAAR,LQHLAESWGGK, AALPLTTSDDTK,ALAELFGLLVK,LL SLISIALPENK,MILNLTQSSGFNG FTPLVTLLLR,TVLNQILR,TDATTA IHK,FLGDEQDQITFVTR	LPGGVQSFPQFSALR,GLLPLVTILG LPNLPIDFPTSAAQAVAGVCK,LLG PSAAADILQLSSSLPLQSR
IPI00319167.7		Hydin	hydrocephalus inducing		IPNVFLCDPEAR,ELLGTRR,LEFSP SVLELGPLLPFASGDEAEVIVR,AEG YTMNAEVK,RGTLASIDK	
IPI00123342.4	Q9JKR6	Hyou1	Hypoxia up-regulated protein 1	DAVITVPAFFNQAER,LGNTISSLFGGG TSSDAK,SRFPEHELIVDPQR,FLGDSA AGMAIK,VESVFETLVEDSPEEESTLTK ,AHFNLDSEGLSLDR,DAVIYPILVEFT R,NINADEAAAAMGAVYQAAALSK,GVG FDRTLGGLEMELELR,AANSLEAFIFET QDK,LSATSTWLEDEGFGATTVMK,P GVPMEIVLNK,VAIVKPGVPMIVLNK,F PEHELIVDPQR,SLAEDFAEQPIK,LYQ PEYQEVSTEEQR,LIPEMDQVFTEVEM TTLEK,TLGGLEMELELR,DEPAEQGELK EEAEPPAEETSQPPPSEPK	GQAGPEGAAPAEEDKK,VLQLIN DNTATALSYGVFR,RAVLQAAR,D AVIYPILVEFTR,LPATEKPVLLSK MTTLEK	LGNTISSLFGGGTSSDAK,VLQLIND NTATALSYGVFR,LIPEMDQVFTEVE
IPI00225201.5	Q8BU30	lars	Isoleucyl-tRNA synthetase, cytoplasmic		TVVTSVFGVK,APLKPYPVPTSDN ILIQEQTLK,GSELEITLTK,EIVVI HQDPEALEDIR,SGSIVVEGHELH EEDIR,YIIIEELNVR	DSVPVCPVDASGCFTEEVTHFVGG YVK,APLKPYPVPTSDNILIQEQTLK K,LYLINSPPVVR,YAHQSGFHVDR
IPI00453499.3	Q8BIJ6	lars2	Isoleucyl-tRNA synthetase, mitochondrial		IAPVASALETTFDVVAAFSGVDLE GGTCSHPLTPDK,SLGNVINPDTII SGGK,AFAPILPHLAEVVFQHIPYV TEPK,SCQTALAEILDVLR,FLLG NLTGFNPETDSVPVK	TGWINTSSIIWKK,CAEVIGAK,FLLG NLTGFNPETDSVPVK,EGTDVVIK

IPI00828796.1	Q8CGB9	Ide	insulin-degrading enzyme		ESLDDLTLNLVVK,EALDDVTLPR,AFI PQLLSR,GWVNTLVGGQK
IPI00135231.2	Q8C338	ldh1	Putative uncharacterized protein		LVTGWVKPIIIGR,NILGGTVFR
IPI00875110.1		ldh2	52 kDa protein		NYDGDVQSDILAQQGFGSLGLMTSV LVCPDGK,LIDDMVAQVLK,NILGGT VFR,LILPHVDVQLK
IPI00459725.2	Q9D6R2	ldh3a	Isoform 1 of Isocitrate dehydrogenase [NAD] subunit alpha, mitochondrial		APIQWEER,TPYTDVNIVTIR,IAEF AFEYAR,NVTAIQGPGGK
IPI00109169.1	P70404	ldh3g	Isocitrate dehydrogenase [NAD] subunit gamma, mitochondrial		DIDILIVR,HKDIDILIVR
IPI00131056.1	O88477	Igf2bp1	Insulin-like growth factor 2 mRNA-binding protein 1	AIETFSGK,TADEVPLK,MVVITGPPEA QFK,LLVPTQYVGAIIIGK,TVNELQNLTA AEVVVPR,DQTPDENDQVIVK,LYIGNL NESVTPADLEK,VELQGK,ITISLQDLT LYNPER,VSYPDEQITQGPENGR	AISVHSTPEGCSSACK,MVVITGP PEAQFK,TVNELQNLTAEEVVVPR ,LYIGNL NESVTPADLEK,ISYSGQ AQFK,TVNELQNLTAEEVVVPR,LYI FLVK,RLEIEHSVPK,VSYPDEQIT GNL NESVTPADLEK,RLEIEHSVPK,I QGPENGR,LNGHQLENHALK,GQ SYSGQFLVK,QGSPVAAGAPAK,GQ SNLAQAR,LLVPTQYVGAIIIGK,MIL SNLAQAR,TADEVPLK,LLVPTQYV EIMHK,DILAQVK,DQTPDENDQVI AIIIGK,GAIENCCR,LKEENFFGPK,IL VK,GAIENCCR,LKEENFFGPK,ILA AHNNFVGR,LETHIR,ITISLQDLTLY HNNFVGR,LETHIR,ITISLQDLTLY NPER,QQPVDIPLR YNPER
IPI00761863.1	Q5SF07	Igf2bp2	Isoform 1 of Insulin-like growth factor 2 mRNA-binding protein 2	ISYIPDEEVSSPSPPHR,SGYAFVDYPD QNWAIR,ILVPTQFVGAIIIGK,TVNELQN LTSAEVIVPR,LYIGNLSPA V TADDLR	
IPI00331315.9	Q9CPN8	Igf2bp3	Insulin-like growth factor 2 mRNA-binding protein 3	LYIGNLSDHAGPADLESVFK,ITISPLQE LTLYNPER	ITISPLQELTYNPER,ILAHNNFVG R
IPI00308971.1	Q07113	Igf2r	Cation-independent mannose-6-phosphate receptor		SFSLGEIYFK,SATGQVQVLGLVH TQK,YEVEWITEYACHR,ATLITFL CDR,LEVIDETVIVTYSK,VCPAGT AACLLK,AACAVRPQEV TMVNGT LTNPVTGK
IPI00463186.7		Igsf9b	immunoglobulin superfamily, member 9B isoform 1		PGLLQQAEMSEITLQPPAAVSFSRK ,CPVDAEPPATVVK,VLAVMQDLISE PSNIAGVSSTDIFFQPDLTDDGLAR, AGEGVVLR,ARPRPGLLQQAEMSEI TLQPPAAVSFSR
IPI00127947.3	Q95H93	lk	lK cytokine	DSEPFNSNPLAPDGHVDDPHSFHQSK ,DGVNKDYEETELISTTANYR,DYEETE LISTTANYR,WDFDTQEEYSEYMNNK, LTQILSYLR,KPPEADMNIFEDIGDYVP STTK,GLDFALLQK,FAGSAGWEGTES LK	KLLMTPR,LTQILSYLR
IPI00831040.1	Q7TSS3	Ikbkg	inhibitor of kappaB kinase gamma isoform 3	PAMLHLPSEQGTPE TLQR,KLAQLQAA YHQLFQDYDSHIK,EYLQEQLEQLQR,L AQLQAA YHQLFQDYDSHIK,AQVTSLL GELQESQSR	

IPI00875742.1	Q3UXI9	Ilf2	Putative uncharacterized protein		VLQSALAAIR,FPGFELTPWILDL LGHYAVMNNPTR,ILPTLEAVAL GNK,GTMTTGHNVDLVILK,INN VIDNLIVAPGTFEVQIEEVR	VLQSALAAIR,CLQILAAGLFLPGSV GITDPCESGNFR,ILPTLEAVALGN K,NQDLAPNSAEQASILSLVTK,ILSH GGFR
IPI00130591.2	Q9Z1X4-3	Ilf3	Isoform 3 of Interleukin enhancer-binding factor 3	EPPLSLTIHLTSPVVR,QGGYSSQSNY SSPGSSQSYSGPASSYQSSQGGYSR, LFPDTPLALEANK,HSSVYPTQEELEA VQNMVSHTER,VLAGETLSVNDPPDV LDR,FVMEVEVDGQK,VADNLAIQLTTV TEDK,VADNLAIQLTTVTEDKYEILQSV DDAAIVIK	GDLDELVLCK,SCVIVIR,VLAGE TLVNDPPDVLDR,FVMEVEVDG QK,LNQLKPLQYK	VPTWGPLR,LAAFGQLHK,IFVNDDR ,LNQLKPLQYK
IPI00381412.1	Q8CAQ8-2	Immt	Isoform 2 of Mitochondrial inner membrane protein			GVYSEETLR,LSEQELEFR,YEFE QGLSEK,RTFDSAVAK,STSETTE EAFSSSVR,VVSQYHELVVQAR,T SSAEMPTIPLGSAVEAIR,KPVQS GPLK,EIAGATPHITAAEGR,RIDQ LNR,AVDEAADALLK,TSSVTLQTI TAQNAAVQAVK,GIEQAVQSHAV AEEEEAR,SLEDALNR,TKGDTPAS AAGDTLSVPAPAVQHEDTIK,YST SSSSGLTAGK,LSTDDLNSLIAHA HR,LHNMIVDLDNVVK,ERPPEEV AAR,LFGMVLGSAPYTVPLPK,IAG AGLLFVGGGIGGTILYAK,LPVAQ SQK,KAHQLWLSVEALK,KAVDEA ADALLK,VNCSDFEFTQAL TAAIP PESLTR,QIVEILTAYASAVGIGTT QVQQE
IPI00122383.1	Q921Y2	Imp3	U3 small nucleolar ribonucleoprotein protein IMP3	LYAMGLVPTR,VGPDVVTDPAFLVTR, MAQHLQAAVAFVEQGHVR,LPTLLLKL RMAQHLQAAVAFVEQGHVR,SMEDFV TWDSSK		
IPI00395166.2	Q8VHZ7	Imp4	U3 small nucleolar ribonucleoprotein protein IMP4	VITFANQDDYISFR,LGTLEQEATADVE WR,ALEENQLIPELRR,EALALQGSLE FDDAGGEGVTSHVDDEYR,ALEENQLI PELRR,HDIPDLGTMSEAKPHLITHGFS SR		
IPI00319956.1	O55091	Impact	Protein IMPACT	TEEVEVESEEDPILEHPPENPVK,ISEE TQPETEELPPVAHGVPIIDR		

IPI00323971.2	P24547	Impdh2	Inosine-5'-monophosphate dehydrogenase 2	YPSLQVIGGNVVTAAQAK,LPIVNEND ELVAIIAR,EKYPQLQVIGGNVVTAAQA K	HGFCGIPITDTGR,KYEQGFITDPV VLSPK,NLIDAGVDALR,VAQGV GAVQDK,LVGISSR,TSSAQVEG GVHSLHSYEK,LPIVNEDELVAII AR,REDLVVAPAGVTLK,GKLPVN ENDELVAIIAR,FGVPVIADGGIQN VGHIAK,FLEEIMTK,ALALGASTV MMGSLAATTEAPGEYFFSDGIR	HGFCGIPITDTGR,KYEQGFITDPV LSPK,VAQGVSGAVQDK,YEQGFIT DPVVLSPK,TSSAQVEGGVHSLHSY EK,LVGISSR,YPSLQVIGGNVVTAA QAK,REDLVVAPAGVTLK,PQATAVY K,EDLVVAPAGVTLK,NLIDAGVDAL R,LPIVNEDELVAIIAR,FGVPVIADG GIQNVGHIK
IPI00135965.2	P46660	Ina	Alpha-internexin	KVESLLDELAFVR,VGEGFEETLGEAVI STK		
IPI00265986.1	Q9WU62	Incenp	Isoform 1 of Inner centromere protein	NSGCPSKPRSATK,PAAAGQTTTVEE QEALDQTDGHR		TFLHTVQK,VLSPILLNNILPTTAK
IPI00877221.2		Ints1	Isoform 1 of Integrator complex subunit 1			EPPMEEDIGETDALQGYQWLLR,RP PPHILDQVK
IPI00355368.4	Q8K2V6-2	Ipo11	Isoform 2 of Importin-11			AGLITNFNEPINQIATQIAVLIK,NME VMGFLHGIFER
IPI00128880.3	Q8VI75	Ipo4	Importin-4			LLGLLLPLLAR,AGFLVLAVLSDGAG DHIR,KAGFLVLAVLSDGAGDHIR,P VMAVLESLTGVLR,DPAALPALFDL LATATDSQIR,LLYPLLQIVCK,LFPVL LNNAR
IPI00626994.3	Q8BKC5	Ipo5	Isoform 1 of Importin-5		VSDILHSIFSSYK,SLVEIADTVPK, LLSSAFDEVYPALPSDVQTAIK,TK ENVNATENCISAVGK,KQAEETYE NIPGR,EGFVEYTEQVVK,VIQAPE AK,LVLEQVVTSIASVADTAEK,H IVENAVQK,YLRPHLEATLQLSLK,I FSIIAEGEMHEAIK,ICDIAAELAR,V QAHA AAAALINFTEDCPK,ATAAFIL ANEHNVALFK,ITFLLQAIR,TIECIS LIGLAVGK,EAALHIFWNFPGIFGN QQQHYLDVIK	VSDILHSIFSSYK,SLVEIADTVPK,LL SSAFDEVYPALPSDVQTAIK,VAAAE SMPLLLECAR,FVPPYDLFMPSLK,L VLEQVVTSIASVADTAEK,HIVENA VQK,VIQAPEAK,LVLPMIK,HFADLL PGFLQAVNDSCYQNDSDSVLK,FMQ DASDVMQLLLK,ICDIAAELAR INQGVSHALTWK
IPI00331444.7	Q9EPL8	Ipo7	Importin-7		VEAAIALQVLISNQEK,FPNNVEPV TNHFITQWLNDVDCFLGLHDR,VL TGVGAGEDAECHAAK,LLEVIIQCK ,AFAVGVQVLLK,DGALHMIGSL AEILLK,AVTAMGILNTIDTLLSVVE DHK	SPLVAAMQHFLPVLK,VLTVGAGED AECHAAK,GIDQCIPLFVEAALER,V QLTTCIHIIK,AIFQTIQNR,SDQNLQ TALELTR,YGSPGNVSK,VLQQTLYN INQGVSHALTWK
IPI00130158.3	Q91YE6	Ipo9	Importin-9		VLIFPVVQQFTEAFVQALQMPDG PTSDSGFK,FTVAMSPELIQFLQ ATVSGLHETQPPSVR	FTVAMSPELIQFLQATVSGLHETQ PPSVR,AAAEEQIK,EALVDTLTGILS PVQEV
IPI00467447.3	Q9JKF1	Iqgap1	Ras GTPase-activating-like protein IQGAP1	LPYDVTPEQALSHEEVK,QILAPVVEI MDDKSLNIK,EEVQAGVDAANSAAQ YQR	FPDAGEDELLK,IGGILANELSVDE AALHAAVIAINEAIDR,IGGILANEL SVDEAALHAAVIAINEAIDRR,LAA VAAINAAIQK,LIVDVIR	QLQSDLQKQK,LPYDVTPEQALSHEE VK,FPDAGEDELLK,RLIVDVIR,QILA PVVK,ATGLHFR,LA AVAANAIIQK,L AYLHSHK,LGLAPQIQDLYGK

IPI00854942.1		lrf2bp2	similar to interferon regulatory factor 2 binding protein 2	SPADSLSSAAGASELSAEGAGK,RKPS PEPEGEVGPPEK,AAATLAAVSGTPGLG AQPAELGTHK	
IPI00222565.2	Q3U1G5	lsg2012	unnamed protein product	LVEVEWEQHLAQNPEN,DIQVGNTG HSSVEDAQATMELYK,IDLLGEFQSAL PK	
IPI00469994.2	Q69ZQ2	lisy1	Pre-mRNA-splicing factor ISY1 homolog	VAQIQNAGLGEFR,FIAHVPVPSQQEIE EALVR	
IPI00119886.1	Q9JHU9	lsyna1	Inositol-3-phosphate synthase 1		VSFCTSDSDEPQGFHTVLSLLSF PSVYIPEFIAANQTAR,PGPGIKPGE LFK,VIVLWTANTER,SVLVDFLIGS VVATSPLPCK,APLVPPGSPVVNAL GLK FR
IPI00420835.3	Q61739	ltga6	Isoform Alpha-6X1B of Integrin alpha-6	PSGYNPPISILGILEAEKER,PSGYNPPI SILGILEAEK,NSYPDLAVGSLSDSVTIF R	
IPI00132474.3	P09055	ltgb1	Integrin beta-1		LRPEDITQIQPQQLLLK,LENNIQ LRPEDITQIQPQQLLLK,KDTCAQEC TIFAVTEEFQPVYK,SAVTTVVNP SHFNLTKEVESR K,LPDGVNTINYK
IPI00227834.8	Q61703	ltih2	Inter-alpha-trypsin inhibitor heavy chain H2	FYNQVSTPLLR,IQPSGGTNINEALLR	
IPI00831223.1		ltsn1	195 kDa protein	IPENEVPTPAKPVTDLTSAPAPK,LYKA KSNK	
IPI00124575.1	Q62315	Jarid2	Protein Jumonji	IVEPLLPPPATQISDLSK,ALGPASEQS ENEKDDASQVSSTSDVSSDFEFGP SR	SQGITMDELPLIGGCELDLACFFR,R QHGEGLAGSLK
IPI00453693.2	Q91XC0	Jub	Protein ajuba	HSYPPALGSPGALTGAVVGTAGPLER, YQDELTALLR,FEGSFPGPPPTR,GE PSGIEPSGLEESPGPFVPEASR	
IPI00229475.1	Q02257	Jup	Junction plakoglobin	LNYGIPAIVK,LLNQPNQWPLVK,ALMG SPQLVAAVVR,VSVELTNSLFK,TLVTQ NSGVEALIHAILR,LNTIPLFVQLLYSSV ENIQR,NEGATYAAAVLFR,SAIVHLIN YQDDAELATR,ILVNQLSVDDVNVLTTC ATGTLNLTCSNNSK,EAADAIDAEGAS APLMELLHSR	EGLLAIFK,LNYGIPAIVK,TLVTQN LNYGIPAIVK,NLSDVATK,VAAGVLC SGVEALIHAILR,LNTIPLFVQLLYS ELAQDK,LNTIPLFVQLLYSSVENIQ SVENIQR,VAAGVLCCELAQDK R,NLALCPANHAPLQEAVIPR
IPI00469103.1	Q8R2P8	Kars	lysyl-tRNA synthetase isoform 1		SQAVQQLK,LIFYDLR,PFITYHNE LDMNLYMR,YLDLILNDFVR,RGDI SQAVQQLK,LPETSLFETEETR,ITYH IGVEGNPGK,FHVDISLTQFIEYS PDGPEGQAYEVDFTPPFR,ILDDICV HLQPGDHLTDVTLK,MLVGGIDR AK ,LPETSLFETEETR,FELFVMK
IPI00460716.2	Q6PCM1	Kdm3a	Isoform 1 of Lysine-specific demethylase 3A		NVIYHAVK,EMCDVCDTTIFNLHWV CPR,CLPPLPPLNKPSTVLHTFNSTI LTPVSNNSGFLR,PASSVKPTCPT STSPLNWLADLTSGNVNK
IPI00648673.4	Q8BW72	Kdm4a	Isoform 1 of Lysine-specific demethylase 4A		TSYDDIDDLVIPAPIQLVLTGQSGLF TQYNIQK,EDYIEPALYR
IPI00330824.9	Q80Y84	Kdm5b	Isoform 1 of Lysine-specific demethylase 5B		VPVLETLIELVAR,LREMEALQSLR FANEK

IPI00458765.2	Q60749	Khdrbs1	KH domain-containing, RNA-binding, signal transduction-associated protein 1	KDDEENYLDLFSHK,DSLDPSTHAMQ LLSVEIEK,DDEENYLDLFSHK	
IPI00314520.3	Q9R226	Khdrbs3	KH domain-containing, RNA-binding, signal transduction-associated protein 3	FLIPDYNDEIR,DSLDPSTHALR	
IPI00462934.2	Q3U0V1	Khsrp	Far upstream element-binding protein 2	VGGGIDVPVPR,VPDGMVGLIIGR,GSP QQIDHAK,QAQVATGGGPGAPPGSQP VGGGIDVPVPR,IQNDAGVR,VPD DYSAAWAEYYR,AINQQTGAFVEISR,L GMVGLIIGR,IGQQPQQPGAPPQ ASQGDSIGSQLGPIHPPPR,GGPPGQF QDYTK,MILIQDGSQNTNVDKPLR HDNANGGQNGTVQEIMIPAGK,AGLVI ,HSVGVVIGR,VQISPDSSGGLPER GK	
IPI00876559.1		Khsrp	KH type splicing regulatory protein KSRP	VGGGIDVPVPR,VPDGMVGLIIGR,GSP VGGGIDVPVPR,IINDLLQSLR,IQN VGGGIDVPVPR,IINDLLQSLR,IQND QQIDHAK,AINQQTGAFVEISR,LASQG DAGVR,VPDGMVGLIIGR,MILIQD AGVR,VQISPDSSGGLPER,LASQGD DSIGSQLGPIHPPPR,AGLVIGK,GGPP GSQNTNVDKPLR,HSVGVVIGR,V SIGSQLGPIHPPPR,HSVGVVIGR,R GQFHDNANGGQNGTVQEIMIPAGK QISPDSSGGLPER QLEDGDQPSDK	
IPI00130218.2	Q6P9P6	Kif11	Kinesin-like protein KIF11	LDIPTGMTPER,TIVAPSVVILNINK, LPLHTSINL,NLNSLFNNMEELIK	
IPI00626501.3	Q3UH16	Kif1a	Putative uncharacterized protein	EALLAEMGVAMR,RVLDTSVAYVR, LETTQRPGEVLSPASSESESR,DI GEEMLQHAFEGYNVCIFAYGGTGA GK	
IPI00407864.2	Q80V30	Kif23	Kinesin family member 23	KCLAFK,GGPIGDEPLVPEVILQSF PLPCK	
IPI00881982.1		Kif2a	75 kDa protein	PLVETIFER,IDILTELR,GSLDYRPLTTA DPIDEHR,FSLIDLAGNER,GNLFSIFMF I,ARPSQLPEQSSSAQQNGSVSDISP V QAAK	
IPI00123365.1	Q922S8	Kif2c	Kinesin-like protein KIF2C	FSLVDLAGNER,DSLPLQENVTVPK,VT MECSPLTVTDPIEEHR	
IPI00881456.1	Q80YP3	Kif4	kinesin family member 4	NKPIINIDPQAAELNHLK,VLYLLSQLQQ SQMTEK	
IPI00555125.1	Q5BL10	Kif5b	Kinesin family member 5B	ISFLENNLEQLTK,EYELLSDELNQK,SL TEYLQNVEQK	SLSALGNVISALAEGSTYVPYR,QLE STQTESNK,PIRPGQHPAASPTH PG TVR
IPI00620804.2	Q7M6Z6	Klc1	Kinesin light chain 1T (Fragment)	TSGHDHPDVATMLNILALVYR,FEAAE TLEEAAMR,NEHNSILQSLLETLK,DHP AVAATLNNLAVLYGK,TLHNLVIQYASQ GR,DAANLLNDALAIR	
IPI00120089.1	Q9DBS5	Klc4	Kinesin light chain 4	GHPDVATMLNILALVYR,DHPAVAATL NNLAVLYGK,ALAIYESQLGPDNPV A R	
IPI00311329.1	Q60960	Kpna1	Importin subunit alpha-1	IVQVALNGLENILR,IOAVIDAGVCR, AVGNIVTGDDIQTQVILNCSALQSL L HLLSSPK	

IPI00230429.4	O35344	Kpna3	Importin subunit alpha-3		AVGNIVTGTDEQTQVVLNCDVLSHF PNLLSHPK,AQNVTLLEAILQNATSDN PVVQLSAVQAAR,SGILPILVK,DQVE YLVQQNVIPPCNLLSVK
IPI00129792.1	O35343	Kpna4	Importin subunit alpha-4		DYVISLGVVKPLLSFISPSIPITFLR, DAQVVQVVDGLSNILK
IPI00323881.1	P70168	Kpnb1	Importin subunit beta-1		NYAEYQVCLAAVGLVGDLCR,VL ANPGNSQVAR,VAALQNLVK,LLE TDRPDGHQNNLR,SVKPILSVF GDIALAIGGEFKK,PMIHELLTEGR VLANPGNSQVAR,LLETDRPDGHQ ,ALQSNILPFCDEVMLLENLGN NNLR,SNEILTAIQGM,PMIHELLTE ENVHR,GALQYLPILTQTLTK,ES GR,ESCLEAYTGIVQGLK,AAVENLP CLEAYTGIVQGLK,AAVENLPTFL TFLVELSR,GALQYLPILTQTLTK,IC VELSR,SVKPILSVFGDIALAIGG ELLPEAAINDVYLAPLLQCLIEGLSA EFK,ICELLPEAAINDVYLAPLLQC EPR,MELITILEK,VAAGLQIK,LELEA LIEGLSAEPR,VAAGLQIK,IQFNDL AQK,IQFNDLQSLLCATLQNVLR,TL QSLLCATLQNVLR,TLATWATK,YL ATWATK,GDQENVHPDVMLVQPR, EVLNLTQQASQAQVDK,MFQST SSAYESLMEIVK,IQFNDLQSLLCAT AGSGGVQEDALMAVSTLVEVLG LQNVLRK,WLAIDANAR,AAGVCLML GEFLK,TVSPDRLELEAAQK,LQQ LSTCCEDDIPHVLPFIK,LAATNALL VLQMESHQSTSDR,SSAYESLME NSLEFTK IVK,HFIMQVVEATQCPDTR,AA GVCLMMLSTCCEDDIPHVLPFIK, TTLVIMER,LAATNALLNSLEFTK
IPI00625729.2	P04104	Krt1	Keratin, type II cytoskeletal 1	SLNDKFASFIDK,FLEQQNQVLQTK,TN AENEFVTIKK,TNAENEFVTIK,SLNDKF ASFIDKVR,YEDEINKR	FLEQQNQVLQTK,TNAENEFVTIK K,KYEDEINKR,TNAENEFVTIK,FA SFIDK
IPI00798492.2	P02535	Krt10	Isoform 1 of Keratin, type I cytoskeletal 10	VTMQNLNDR,SEITELR,LENEIQTYR,Q SVEADINGLR,QSLEASLAETEGR,ALE ESNYELEGK	NQYEQLAEKNRK,SEITELRR,VT MQNLNDR,SEITELR,LENEIQTYR GQILTLTDDNANVLLQIDNAR,LAAD ,LAADDFR,ALEESNYELEGK DFR,QSVEADINGLR
IPI00656215.1	P08730-2	Krt13	Isoform 2 of Keratin, type I cytoskeletal 13	QSVEADINGLR	
IPI00227140.1	Q61781	Krt14	Keratin, type I cytoskeletal 14	ADLEMQIESLKEELAYLK,ALEEANTEL EVK,VTMQNLNDR,GQVGGDVNVEMD AAPGVDLSR,LEQEIATYR,VLDELTLA R,ILNEMR,EVATNSELVQSGK,TMQNL EIELQSQLSMK,ADLEMQIESLKEELAY LKK,CEMEQQNQEYKILLDVK,VVSTHE QVLR,TRLEQEIATYR	
IPI00828528.1	Q61782	Krt14	Type I epidermal keratin (Fragment)	LLEGEDAHLSSSQFSSGSQSSR,CEM EQQNQEYKILLDVK,LEQEIATYR,TRLE QEIATYR	

IPI00225378.3	B1AQ77	Krt15	keratin 15	VTMQNLNDR,KTEELNK,VTMQNLNDR LASYLDKVR,LEQEIATYR,VLDELTAR ,RTLQGLEIELQSQLSMK,TLQGLEIELQ SQLSMK,TRLEQEIATYR	
IPI00131209.3	Q9EQD6	Krt16	Keratin intermediate filament 16a	GQTGGDVNVEMDAAPGVDLSR,VTM QNLNDR,ASLENSLEETKGR,KTEELN K,LEQEIATYR,ILNEMR,TRLEQEIATYR ,VFQGLEIELQSQLSMK	
IPI00230365.5	Q9QWL7	Krt17	Keratin, type I cytoskeletal 17	TKFETEALR,KNHEEEMNALR,ALEE ANTELEVK,ATMQNLNDR,ADLEMQIE NLKEELAYLK,DAEDWFFSK,NHEEEM NALR,LEQEIATYR,LLEGEDAHLTQYK, EVATNSELVQSGK,VLDELTAR,TMQ ALEIELQSQLSMK,CEMEQQNQYKIL LDVK,GQVGGEINVEMDAAPGVDLSR, ADLEMQIENLK,ADLEMQIENLKEELAY LKK,RTMQALEIELQSQLSMKASLEGS LAETENR,YCVQLSIIQGLIGSVEEQLA QLR,ILVATVDNASILLQIDNAR,TRLEQ EATYR	TMQALEIELQSQLSMK,VLDELTL AR,EVATNSELVQSGK,LAADDFR, LASYLDK
IPI00311493.5	P05784	Krt18	Keratin, type I cytoskeletal 18	TLQTLIDLDLSDMK,NQNINLENSLGDVE AR,VRPASSAASVYAGAGGSGSR,LQL ETEIEALKEELLFMK,VRPASSAASVYA GAGGSGSRISVSR,AQMEQLNGVLLH LESELAQTR	LQLETEIEALK,AQYEALQK,VRPA SSAASVYAGAGGSGSR,AQMEQLN GVLLHLESELAQTR,VVDDTNITR,D AETTLTEL,SVWGGSVGSAGLAG MGGIQTEK,LAADDFR,QSVESDIHG LR,LASYLTK,IVLQIDNAR,NQNINLE NSLGDVEAR,LQLETEIEALKEELLF MK,LEAEIATYR
IPI00112947.1	P19001	Krt19	Keratin, type I cytoskeletal 19	LEQEIATYR,LSVEADINGLR,VLDELTL AR,RTLQGLEIELQSQLSMK,TLQGLEI ELQSQLSMK,ILGATIDNSKIVLQIDNAR K	YGVQLSIIQSVISGFQAQLSDVR,I EELNTQVAVHSEIQISK,LASYLD K
IPI00622240.4	Q3TTY5	Krt2	Keratin, type II cytoskeletal 2 epidermal	LSLDVEIATYR,LLRDYQELMNTK,YED EINKR,DYQELMNTK,VDPEIQNVK	GFSSGSVAVSAGGSR,YEELQVTA VK,KYEDEINKR,FLEQQNQVLR K,DYQELMNTK,VDPEIQNVK,FAS FIDK
IPI00462134.3	Q6IFX3	Krt40	Keratin, type I cytoskeletal 40		VRSLEENNAEIECR,LAADDFR
IPI00468696.3	Q6IFX2	Krt42	Keratin, type I cytoskeletal 42	KNHEEEMNALR,ADLEMQIESLKEELA YLR,GQVGGDVNVEMDAAPGVDLSR, ADLEMQIESLKEELAYLRK,LEQEIATY R,NHEEEMNALR,DAEWWFFTK,TKYE TELNL,ALAEANADLEVK,ILNEMR,VL DELTAR,TRLEQEIATYR	ALAEANADLEVK,VLDELTAR,LA ADDFR

IPI00139301.3	Q922U2	Krt5	Keratin, type II cytoskeletal 5	LALDVEIATYR,LTELEEALQKAK,VDAL MDEINFMK,MFFDAELSQQMTHVSDT SVVLSMDNNR,YEELQQTAGR,YEDEI NKR,NKYEDEINKR,SEIDNVKK,DVDA AYMKN,HEISEMNR,SLDLDSIIAEVK	LALDVEIATYR,LTELEEALQKAK,L RSEIDNVKK,KYEDINKR,YEELQ QTAGR,AQYEDIANR,NKYEDEIN KR,KDVDAAYMKN,FASFIDK,SEI DNVKK,SLDLDSIIAEVK	
IPI00131368.3	P50446	Krt6a	Keratin, type II cytoskeletal 6A	LALDVEIATYR,TAAENEFVTLK,QCAN LQAAIADAEQR,LEGLEDALQK,YEELQ VTAGR,ALYEAELSQQMTHISDTSVVL SMDNNR,YEDEINKR,AEAESWYQTK, SRAEAESWYQTK,DVDAAYMKN,SLDL DSIIAEVK		
IPI00406377.3	Q9DCV7	Krt7	Keratin, type II cytoskeletal 7	LALDIEIATYR		
IPI00347110.2	Q6NXH9	Krt73	Keratin, type II cytoskeletal 73	LALDIEIATYR,NLDLDSIIAEVR,FLEQQ NQVLQTK	LALDIEIATYR,NLDLDSIIAEVR,FL EQQNQVLQTK,FASFIDK,KDVDA AYMSK	
IPI00221797.1	Q8BGZ7	Krt75	Keratin, type II cytoskeletal 75	LALDVEIATYR,YEELQVTAGR,MIYEA LSQMQNQVSDTSVVLSDNNR,NMQ EVVEDFK,YEDEINKR,AEAESWYQTK, SRAEAESWYQTK,SLDLDSIIAEVK		
IPI00346834.1	Q3UV17	Krt76	Keratin, type II cytoskeletal 2 oral	LALDVEIATYR,AQYEDIAQK,KQNTNM QTSIAEAEQR	LALDVEIATYR,AQYEDIAQK,SGA ASGGACGFRSGAGSLGSHSLYS LGGSK,FASFIDK	
IPI00462140.1	Q6IFZ6	Krt77	Keratin, type II cytoskeletal 1b	WELLQQVNTSTR,FLEQQNQVLQTK,Y EDEINKR,NKYEDEINKR,SLDLDSIIDA VR,FLEQQNQVLQTKWELLQQVNTST R		
IPI00124499.2	Q8VED5	Krt79	Keratin, type II cytoskeletal 79	YEDEINKR,NKYEDEINKR,AEAESWYQ TK,SRAEAESWYQTK,NLDLDSIIAEVK	KYEDINKR,NKYEDEINKR,FASFI DK,NLDLDSIIAEVK	
IPI00322209.5	P11679	Krt8	Keratin, type II cytoskeletal 8	LEAELGNMQGLVEDFK,LEGLTDEINF LR,SNMDNMFESYINNLNLR,YEDEINKR, NKYEDEINKR	SLNNKFASFIDK,LALDIEITTYR,LE GLTDEINFLR,KYEDINKR,AQYE DIANR,LVSESSDVVSK,NKYEDEI NKR	ASLEAAIADAEQR,YEELQTLGAK,L AELEAALQR,LLEGEESR,LEGLTDEI NFLR,NKYEDEINK,WSLLQQQK,SF TSGPGAR,FASFIDK,LEVDPNIQAV R,LQAEIEALK,TEISEMNR,LEAELG NMQGLVEDFK,VGSSSSSFR,GSM GTGVGLGGFGGAGVGGITAVTVNQ SLLSPLK,QLEALGQEK,AQYEDIAN R,LVSESSDVVSK
IPI00474575.5		Krt81	keratin complex 2, basic, gene 19		LCEGVGAVNVCVSSSR,RLLEGE EQR,FAAFIDK,AQYDDIASR	
IPI00331459.1	Q9Z2T6	Krt85	Keratin, type II cuticular Hb5	LALDIEIATYR		

IPI00122559.3	Q61595	Ktn1	Isoform 1 of Kinectin		LQTAVSQPNK,AQQSLNSIHSK, KLQTAVSQPNK,ACVAGTSDAE AVK,IETDKENAEVK,ENEVQSLH SK,TAEHEAAQQDLQSK,GELSGL LHQLQEK,LLEEQLQHEVASK,LF PTVSVPSNLNYSEWLR,SVEELLE VELLK
IPI00378700.2	Q587J6	L1td1	LINE-1 type transposase domain- containing protein 1		LSALSQVTPLLTNI EK,IGQQEGDA ISERPKEGK,IFFDIEEFK,IASD SLSFLFIK,EKELEPELQCSVK,AP KESPPEGGAGATLRLAADFSAAT IGQQEGDAISER,LSALSQVTPLLTNI LDVGR,ELAFSYLVWDSK,ESPPE EK,PLNSSHV LK,LTADLSPGTIDAR, GGAGATLR,VSEQEDAVEGLTK,Y VPQTEETAK,AKPLNSSHV LK,KTA KVPQTEETAK,EVIEENFAELED SQTKK,ILQDEGFQPR,ETFHGLK QSLEIVSAHR,LTADLSPGTIDAR, LAADFSAAATLDVGR,EVEVASPEV K,ILQDEGFQPR
IPI00676957.3	A2ABW7	Lama5	laminin, alpha 5 precursor		VVLEVASEAGR,AIQVFLLAGNR
IPI00338785.3		Lamb1-1	laminin B1 subunit 1		VETLSQVEVILQQSAADIAR,NFLT EDSADLDSIEAVANEVLK
IPI00400016.1	P02468	Lamc1	Laminin subunit gamma-1		NSVSSLLSQLNNLLDQLGQLDTV DLNK,LSAEDLVLEGAGLR,EVVC THCPTGTAGK
IPI00331436.4	Q9CPY7	Lap3	Isoform 1 of Cytosol aminopeptidase	TLIEFLLR,SWIEEQEMGSFSLVAK,GS EPPVFLEIHYMGSPNATEAPLVFVGK ,WAHLDIAGVMTNKDEIPYLR,TFYGLH QDFPSVVVGLGK,DKDDLPQFTSA GESFNK	TLIEFLLR,GLVLGIYAK,LFEASVE TGDR,LNLPINIIGLAPLCENMPSG K,GSEPPVFLEIHYMGSPNATEA PLVFVGK,FAEIEK,TFYGLHQDF PSVVVGLGK,LILADALCYAHTF NPK GITFDSGGISIK,GLVLGIYAK,LNLPI NIIGLAPLCENMPSGK,QVIDCQLAD VNNLGK,LFEASVETGDR,TIQVDNT DAEGR,GVLFASGQNLAR,LILADAL CYAHTFNPK
IPI00344088.6		Larp1	la related protein	FSHPTALPQQQLPSQQLMSK,SLPTTVP ESPNYR,QIEYYFSVDNLER,VINDGLF YYEQDLWTEK,EKLASR,DYEAGQLYG LEK,LFGAPEPSTIAR,VQALTTDISLIFA ALK,ILIVTQTPPYMR	PATGISQPPTTPTGQATR,VQALT TDISLIFAALK,KFDGTEGPR
IPI00278107.4	Q8BVS5	Larp2	Putative uncharacterized protein	MDEQGFPLPISLIAGFHR,VQALTTNLNLI LEALK	
IPI00828620.1	Q8BWW4	Larp4	La-related protein 4	LTTNTDLILEVLR,SSSGSEHSTEGSVS LGDGPLSR,EAPILQMEQNGDFGR,FD LLATNFPPLPGSSSR	EIPETTPVEEVK,IPRPQAATEAK
IPI00620564.3	Q6A0A2	Larp5	Isoform 1 of La-related protein 4B	AIAINTFLPK,NLSTDASTNTVPVVGPR, LSTDVDLIVEVLR,EISESTPVEEVEALF K	
IPI00340860.5	Q05CL8	Larp7	Isoform 1 of La-related protein 7	HSWNLEVLVSGDHEQR,TPEDAQAVMN AQTEIR,DKVEASSLPEAR,VSAQGPQ FVTGVIVK,FKTPEDAQAVMNAQTEIR, AIEFLNPPPEEAPR	

IPI00453819.2	Q8BMJ2	Lars	Leucyl-tRNA synthetase, cytoplasmic	GTGVVTSVPSDSPDDLAALR,VIASEL GSLPELK,GFYDGVMLVDGFK,VVYVL PMLTIK,STGNFLTLSQAVDK	GTGVVTSVPSDSPDDLAALR,VIA SELGSLPELK,FGIRDDMVLPEFEP VPVLEIPGIGNLPAVTVCDDELK,RV PVLGR,VFEVSASR,TLISENAVFH VDLVSK	GTGVVTSVPSDSPDDLAALR,VIASE LGSLPELK,FSEAEHWLDYFPPLAV QDLK,RVPVLGR
IPI00462502.3	A2BE28	Las1l	LAS1-like			LIDAAGTLGTDELRL,HLLQAIK,LGNE LPLAVASTADLVR
IPI00125091.1	Q61792	Lasp1	LIM and SH3 domain protein 1	TGDTGMLPANYVEAI,QSFTMVADTPE NLR,GFSVVADTPELQR		TQDQISNIK,GFSVVADTPELQR,KP YCNAHYPK,QQSELQSQVR
IPI00331173.8	Q3U9G9	Lbr	Lamin-B receptor		GPAPLGTQVTTTPQR,VAEGTPL VDGR,FVEGEVVR,EIESEEQNLV TK	
IPI00751369.1		Ldha	lactate dehydrogenase A isoform 2	GYTSWAIGLSVADLAESIMK,LLIVSNP VDILTYVAWK,DQLIVNLLK	GLYGINEDVFLSVPCILGQNGISD VVK,DLADELALVDVMEDK,LVIIT AGAR,SLNPELGTADKEQWK,YL MGER,LLIVSNPVDILTYVAWK,VT LTPEEAR,RVHPISMIK,LGVHA LSCHGWVLGEHGDSSVPVWSGV NVAGVSLK,FIIPNIVK,DQLIVNLLK ,GEMMDLQHGSLFLK,ITVVGVA VGMACAISILMK,GYTSWAIGLSV ADLAESIMK,VIGSGCNLDSAR,SA DTLWGIQK,LKGEMMDLQHGSLF LK,DYCVTANSK,QVVD SAYEVIK	GLYGINEDVFLSVPCILGQNGISDVV K,VIGSGCNLDSAR,LVIITAGAR,YL MGER,LLIVSNPVDILTYVAWK,SAD TLWGIQK,RVHPISMIK,DQLIVNLL K,FIIPNIVK,QVVD SAYEVIK
IPI00229510.5	P16125	Ldhb	L-lactate dehydrogenase B chain		LKDDEVAQLR,GYTNWAIGLSVA DLIESMLK,IVADKDYSVTANSK,VI GSGCNLDSAR,LIASVADDEAAVP NNK,IVVVTAGVR,FIIPQIVK,GLTS VINQK,SLADELALVDVLEDK	GYTNWAIGLSVADLIESMLK,VIGSG CNLDSAR,LIASVADDEAAVPNNK,IT VVGQVGMACAISILGK,IVVVTAG VR,FIIPQIVK,GLTSVINQK,SLADELA LVDVLEDK,MVVD SAYEVIK
IPI00624364.3	Q3V0V0	Ldlrad2	Putative uncharacterized protein			MDNCGDGSQDSRPPASCGGPSL VPK,EMGTLEDNSSK
IPI00229517.5	P16045	Lgals1	Galectin-1			SFVLNLGK,DSNNLCLHFNPR,MAC GLVASNLNLLK,FNAHGDANTIVCNT K
IPI00348910.2	Q61211-2	Lgtn	Isoform 2 of Ligatin			ADVTAAFPALGTDQISELIPGKEELN VVK,APVAIGVAAMSTAQMLASGLK
IPI00263557.4	P50481-2	Lhx3	Isoform LIM3B of LIM/homeobox protein Lhx3			CAACQLGIPPTQVVR,RAQDFVYHL HCFACVVCK,CAACQLGIPPTQVVR R
IPI00117104.1	Q99M04	Lias	Lipoyl synthase, mitochondrial	EFLHNGPDLQDFVSGDLADK,VGNEL GFLYTASGPLVR		
IPI00473314.3	Q3U4X8	Lig1	DNA ligase I		LKPQEEEQSKPPAR,AQIHVLEGG EVK,SVVALSPDLLPVLYLSLNR	

IPI00170180.5	Q8K3Y3	Lin28	Lin-28 homolog A	AAEKAPEEAPPDAAR,AGVALDPPVDV FVHQSK,APEEAPPDAAR,PAYFREEE EEIHSPALLPEAQN,MFGFLSMTAR	
IPI00112043.2	Q9D945	Llph	Isoform 1 of Protein LLP homolog	VDGDALMKDVEEIIATVVVAK,DVEEIIAT VVVAK,TLLDQHQGYPPVWMNQR,VDG DALMKDVEEIIATVVVAKPR	
IPI00620256.3	P48678	Lmna	Isoform A of Lamin-A/C	IDLSAQLSQLQK,SVGGSGGGSGFD NLVTR,SLTMVEDNEDDDDEGEELLH HHR,DLEALLNSK,MQQQLDEYQELLDI K,LKDLEALLNSK,NSNLVGAHEELQQ SR,AAGGAGAQVGGSSISSGSSASSVT VTR,EMAEMRARMQQQLDEYQELLDI K	
IPI00230394.5	P14733	Lmnb1	Lamin-B1	NTSEQDQPMGGWEMIR,LALDMEISA YR,SLEGDLEDLKDQIAQLEASLSAAK, SLETENSALQLQVTER,ALYETELADA R,DQMQQQLSDYEQLLDVK,TTIPEEE EEEEEPGVAVEEER,IESLSSQLSNL QK,EMAEIRDQMQQQLSDYEQLLDVK	KESDLSGAQIK,ALYETELADAR,I GDTSVSYK,TTIPEEEEEEEEEPIG VAVEEER,LAQALHEMR,IESLSS QLSNLQK,LYKEELEQTYHAK,LAL DMEISAYR,KLLEGEER,SLETEN SALQLQVTER,SLEGDLEDLKDQI AQLEASLSAAK,SLETENSALQLQ VTEREEVR,LREYEAALNSK,DA LATALGDKK,LSSEMNTSTVNSAR ,LLEGEER,FKAEHDQLLNYAK, KIGDTSVSYK,NQNSWGTGEDVK, ASAPATPLSPTR,LAVYIDK,LQEK EELR
IPI00126191.5	P21619	Lmnb2	Isoform B2 of Lamin-B2	LALDMEISAYR,ATSSSSSSSGVGM SQGR,VESLSYQLLGLQK	KLLEGEER,LALDMEISAYR,LLE GEEER,LQIEIGK,RLVEVDSSR,V QAELEEAR,VELEQTYQAK,ISEKE EVTTTR,LQEKEELR
IPI00331707.1	Q8JZK9	LOC100040592	Hydroxymethylglutaryl-CoA synthase, cytoplasmic		PTGGVGAVALLIGNAPLIFDR,VT QDATPGSALDK
IPI00831151.2		LOC100043977	similar to Igh protein	QFLYIVDLTGKGLLEEDFK,GLLEEDFK TVILVDTHGDLHR	
IPI00330862.5	P26040	LOC100044177	Ezrin	FYPEDVAEELIQDITQK,APDFVYAPR, QLLTLSNELSQAR,IGFPWSEIR,AKFY PEDVAEELIQDITQK,GTDLWLGVDAL GLNIYEK,IAQDLEMYGINYFEIK,SQEQ LAELA EY TAK	ALQLEER,IQVWHAHR,FYPED VAEELIQDITQK,APDFVYAPR,IA QDLEMYGINYFEIK,VSAQEV R,S QEQLAAELAEY TAK,RAQEEAER, LFFLQVK,KENPVQFK,IGFPWSEI R,GTDLWLGVDALGLNIYEK,FVIK PIDK,RKPDTIEVQQMK,EVWYFG LQYVDNK

IPI00462072.3	P17182	LOC100044223	Alpha-enolase	KVNVVEQEKIDK,SGETEDTFIADLVVG LAQSNWGWVMVSHR,SGETEDT LCTGQIK,LAQSNWGWVMVSHR,VNVV FIADLVVGLCTGQIK,KVNVVEQE EQEKIDKLMIEMDGTENK,GVSQAVEH KIDK,GVSQAVEHINK,IEEELGSK, INK,LAMQEFMILPVGASSFR,SFVQNY LAMQEFMILPVGASSFR,SFVQNY PVVSIEDPFDQDDWGAWQK,AAVPSG PVVSIEDPFDQDDWGAWQK,KVN ASTGIYEALELRDNDK,GVSQAVEHIN VVEQEK,SGKYDLDFK,EALELLK, KTIAPALVSK,YITPDQLADLYK,DATNV YITPDQLADLYK,SCNCLLLK,DAT GDEGGFAPNILENK,IDKLMIEMDGTE NVGDEGGFAPNILENK,LMIEMDG NK,YGKDATNVGDEGGFAPNILENK,HI TENK,HIADLAGNPEVILPVPFNV ADLAGNPEVILPVPFNVINGGSHAGN INGGSHAGNK,VNVVEQEK,YDL K,LMIEMDGTENK,YGKDATNVGDEGG FK,FGANAILGVSLAVCK,AAVPSG FAPNILENKEALELLK,AAVPSGASTGI ASTGIYEALELR,DATNVGDEGGF YEALELR,DATNVGDEGGFAPNILENK APNILENKEALELLK,GNPTVEVDL EALELLK,IGAEVYHNLK,FTASAGIQVV YTAK,IGAEVYHNLK,FTASAGIQV GDDLTVTNP,K,FTASAGIQVVGDDLTV VGDDLTVTNP,K,AGYTDQVVIGM TNP,K,AGYTDQVVIGMDVAASEFYR DVAASEFYR	LAQSNWGWVMVSHR,SGETEDTFI ADLVVGLCTGQIK,GVSQAVEHINK, LAMQEFMILPVGASSFR,IEEELGSK ,SFVQNYPVVSIEDPFDQDDWGAW QK,KVNVVEQEK,SCNCLLLK,YITPD QLADLYK,HIADLAGNPEVILPVPFNV INGGSHAGNK,VNVVEQEK,YDL DFK,FGANAILGVSLAVCK,AAVPSG ASTGIYEALELR,GNPTVEVDLYTAK ,IGAEVYHNLK,FTASAGIQVVGDDL TVTNP,K
IPI00321923.5	Q8K1R3	LOC100044383	Isoform 1 of Polyribonucleotide nucleotidyltransferase 1, mitochondrial	YTQIIQGIQQLVK,GITALQADIK, KENGPPVETVK	
IPI00850753.1		LOC100044395	similar to RNA binding protein gene with multiple splicing	GYEGSLIK,TLFVSGPLDIKPR,LVGTP NPSTPLPNTVPQFIAR	
IPI00124149.1	P61971	LOC100044514	Nuclear transport factor 2	TQLGAIYIDASCLTWEGQQFQGK, LSSLPFQK,LALHNFG,IQHSITAQ DHQPTPDSCIISMVVGQLK	
IPI00119581.2	P35550	LOC100044829	rRNA 2'-O-methyltransferase fibrillar	VLYLGAASGTTVSHVSDIVGPDGLVYA VEFSHR,LAAAILGGVDQIHIK,DHAVVV GVYRPPPK,VSISEGDDKIEYR,MLIAM VDVIFADVAQPDQTR,LAAAILGGVDQI HIKPGAK,DLINLAK,MQQENMKPQEQ LTLEPYER	DHAVVGVYRPPPK,LAAAILGGVD QIHIK,GKEDALVTK,IVALNAHTFLR, MLIAMVDVIFADVAQPDQTR,TNIIPV IEDAR,LAAAILGGVDQIHIKPGAK,N GGHFVISIK,NLVPGESVYGEK,HEG VFICR
IPI00317752.2	Q9D7F7	LOC100044854	Charged multivesicular body protein 4c	VQFADGFDEAEELAELEEELEQEELNKK ,MTSLELPNVSSSLPAQPSR,QLTQV DGTLSSTIEFQR	
IPI00850433.1		LOC100044980	similar to Thoc7 protein	QFHVLLSTIHELQQTLENDK,LSEVDE AQESTMEADPKP	
IPI00848728.1		LOC100045132	similar to polyglutamine-containing protein	EAAAAAAAAQQQQQQQQQQQQQLN HVDGSTK,LPNGLGGPNGFPKPAPEE GPELNR,APSAPPGTGALPPAAPTG R,NAEALAELESER,YGLSAAAAAAAA AAAVEQR	
IPI00474487.1		LOC100045157	hypothetical protein	EELSNVLAAMR,YPMAVGLNK,REELS NVLAAMR,KREELSNVLAAMR	YPMAVGLNK,EELSNVLAAMR,EVC GFAPYER

IPI00849786.1		LOC100045189	similar to transcription factor EF1	GAEAANVTGPGGVPVQGSK,EDGNEE DKENQGDDETQGGQPPQR,NFNRYR,RP ENPKPQDQK,EDVVFVHQTAIK,RFPPY YMR,NYQQNYQNSSEGEK,NEGSESA PEGQAQQR,SVGDGETVEFDVVEGEK ,NDTKEDVVFVHQTAIK,RPQYSNPPVQ GEVMEGADNQGAGEQGR	GAEAANVTGPGGVPVQGSK,ED VHQTAIK,ENQGDDETQGGQPPQR,N YQQNYQNSSEGEK,NEGSESAPEG QAQQR,RPQYSNPPVQGEVMEGA DNQGAGEQGR	
IPI00853914.1		LOC100045191	similar to heterogeneous nuclear ribonucleoprotein A2/B1	EESGKPGAHVTVK,IDIETITDR,GFGF VTFDDHDPVDK,DYFEEYGKIDTIEIITD R,GFGFVTFDDHDPVDKIVLQK,DYFEE YGK,YHTINGHNAEVR,LFIGGLSFETT EESLR,SGNFGGSR,PHSIDGR,GFGFV TFSSMAEVDAAMAAR,GGNFGFGDSR ,EKEQFR,GGGNFGPGPGSNFR,RGF GFVTFDDHDPVDK,EDTEEHHLR,KLFI GGLSFETTEESLR	YHTINGHNAEVR,LFIGGLSFETTE ESLR,EESGKPGAHVTVK,IDIETII TDR,GFGFVTFDDHDPVDK,PGA HVTVK,LTDCVVMR,GGNFGFGD SR,NMGGPYGGNYGPGGSGGS GGYGGR,GGGNFGPGPGSNFR ,DYFEEYGK,KLFIGGLSFETTEES LR	YHTINGHNAEVR,EESGKPGAHVTV K,IDIETITDR,QEMQEVQSSR,PGA HVTVK,LTDCVVMR,GGGNFGPG PGSNFR
IPI00848537.1		LOC100045253	similar to Scoc protein	LKSENQVLGQYIENLMSASSVFQTTDT K,LINQVLELQHTLEDLSAR		
IPI00785343.2	P84244	LOC100045490	Histone H3.3		FQSAAIGALQEASEAYLVGLFEDT NLCAIHAK,YRPGTVALR,EIAQDF K,STELLIR	
IPI00848492.1		LOC100045699	similar to Electron transferring flavoprotein, beta polypeptide isoform 2		VETTEDLVAK,VDLLFLGK	LPAVVTADLR,SGVVTDGVK,GIHVEI PGAQAESLGPLQVAR
IPI00849741.1		LOC100045848	similar to BUD31 homolog (S. cerevisiae) isoform 1	APPDGWELIEPTLDELQK,VESLWPI FR,YIFDLFYK,KAPPDGWELIEPTLDEL DQK		
IPI00265239.1		LOC100045925	similar to cytochrome c	GITWGEDTLMEYLENPK,TGPNLHGLF GR,GITWGEDTLMEYLENPKK		
IPI00118447.1	P42669	LOC100045958	Transcriptional activator protein Pur- alpha	FFFDVGSNK,LIDDYGVEEPAELPEG TSLTVDNK,GPGLGSTQGQTIALPAQG LIEFR		
IPI00134621.3	P62827	LOC100045999	GTP-binding nuclear protein Ran	FNVWDTAGQEK,YVATLGVEVHPLVF HTNR,NLQYYDISAK,SNYNFEKPFLWL AR	VCENIPIVLCGNK,HLTGEFEKK,K YVATLGVEVHPLVFHTNR,FNVW DTAGQEK,YVATLGVEVHPLVFHT NR,HLTGEFEK,LVLVGDGGTGK, NLQYYDISAK,SNYNFEKPFLWLA R	VCENIPIVLCGNK,SIVFHR,PFLWLA R,FNVWDTAGQEK,YVATLGVEVHP LVFHTNR,SNYNFEK,HLTGEFEK,LV LVGDGGTGK,NLQYYDISAK,NVFN WHR,SNYNFEKPFLWLR
IPI00116154.2	Q9D881	LOC100046079	cytochrome c oxidase, subunit Vb		EDPNLVPSISNK,EIMIAAQK	
IPI00154004.1	Q7TQI3	LOC100046081	Ubiquitin thioesterase OTUB1		KYSYIR,LLTSGYLQR,IQQEIAVQNP LVSER	
IPI00850217.1		LOC100046119	similar to ubiquitin-conjugating enzyme E2 UbcH-ben		LLAEPVPGIK,YFHVVIAGPQDSPF EGGTFK,TVLLSIQALLSAPNPDD PLANDVAEQWK,TNEAQAIETAR	IYHPNVDK,LLAEPVPGIK,ICLDILK, WSPALQIR,TNEAQAIETAR

IPI00850430.1		LOC100046151	similar to Solute carrier family 25 (mitochondrial carrier, phosphate carrier), member 3		IQTQPGYANTLR,GIFNGFSITLK,Y YALCGFGGVLSCGLTHTAVVPLD LVK,GSTASQVLQR,FGFYEVFK,F ACFER,TVEALYK,ALYSNILGEEN TYLWR	IQTQPGYANTLR,GIFNGFSITLK,YY ALCGFGGVLSCGLTHTAVVPLDLVK ,GSTASQVLQR,LPRPPPEMPESL K,MQVDPQK,TVEALYK
IPI00848890.1		LOC100046167	similar to Chain B, Crystal Structure Of Sumo-3-Modified Thymine-Dna Glycosylase		TENNDHINLK,VAGQDGSVVQFK	TENNDHINLK,VAGQDGSVVQFK
IPI00854971.1		LOC100046302	similar to Protein disulfide isomerase associated 6	GSFSEQGINEFLR,HQSLGGQYGVQG FPTIK,NLEPEWAAAATEVK,DVVELTD DTFDK,AAVDATVNQVLASR,TGEAIV DAALSALR,NSYLEVLLK	NKPEDYQGGR,ALDLFSDNAPPP ELLEIINEDIAK,AAVDATVNQVLA SR,TGEAIVDAALSALR,NSYLEV LK	HQSLGGQYGVQGFPTIK,GSFSEQ GINEFLR,NLEPEWAAAATEVK,ALD LFSDNAPPPELLEIINEDIAK,AAVD ATVNQVLASR,TGEAIVDAALSALR
IPI00131459.1	P15532	LOC100046344	Nucleoside diphosphate kinase A	YMHSGPVVAMVWEGLNVVK,VMLGE TNPADSKPGTIR,EISLWFQPEELVEYK	NIIHGSDSVK,GDFCIQVGR,GLVG EIIKR,VMLGETNPADSKPGTIR,D RPFFTGLVK,FLQASEDLLK,GLVG EIIK,TFIAIKPDGVQR,EISLWFQPEELVEYK	NIIHGSDSVK,GDFCIQVGR,VMLGE TNPADSKPGTIR,DRPFFTGLVK,FL QASEDLLK,GLVGEIIK,EHYTDLK,TF IAIKPDGVQR,EISLWFQPEELVEYK
IPI00330303.7	Q9CWJ9	LOC100046995	Bifunctional purine biosynthesis protein PURH	WEALFEEVPELLTEAEK,LSGVSVSSD AFFPFR,WEALFEEVPELLTEAEKK	VVIEACDELGIVLAHTDLR,LPITVL NGAPGFINLCDALNAWQLVTEL, DLIVATVAVK,AEISNAIDQYVTGTI GEGEDLVK,LSGVSVSSDAFFPF R,NIPEDAADMAR,TGLVEFAR,HV SPAGAAVGVPLSEDEAR,TVASP DVTVEAAVEQIDIGGVTLR,GAV DIPAAASFV,DGQVIGIGAGQQSR, TLHPAVHAGILAR,VCMVYDLYPT LTPLAVAYAR,LDLNLVLR,SLASLG LSLVASGGTAK	YQNSVVCYAK,LPITVLNGAPGFIN LCDALNAWQLVTEL,AEISNAIDQY VTGTIGEGEDLVK,LSGVSVSSDAFF PFR,HVSPAGAAVGVPLSEDEAR,R NNGVVDK,SLFSNIVTK,WEALFEEV PELLTEAEK,GAVDIPAAASFV,VV CNLYPFVK,TLHPAVHAGILAR,DVS ELTGFPEMLGGR,LDLNLVLR,SLASL GLSLVASGGTAK
IPI00129466.1	P83917	LOC100047028	Chromobox protein homolog 1	KKVEEVLEEEEEYVVEK,NSDEADLV PAK,VEEVLEEEEEYVVEK,KVEEVLE EEEEEYVVEK,IIGATDSSGELMFLMK	NSDEADLVPAK,KKVEEVLEEEEE EYVVEK,GFSDENTWEPEENLD CPDLIAEFLQSQK,KVEEVLEEEEE EEYVVEK,IIGATDSSGELMFLMK	
IPI00750945.2		LOC100047199	Isoform 1 of Outer dense fiber protein 2	KEELEVAHELAETEHEENTVLR,NIDLT AIISDLR,DLYVAEALSTLESWR,LMEQ QGTLLK,QFQSQLADLQQLPDILK		
IPI00115831.1	O55128	LOC100047209	Histone deacetylase complex subunit SAP18	GTHFNFAIVFMDLK,VKEIGSTMSGR,F QIGDYLDIAITPPNR		
IPI00849478.1		LOC100047252	similar to Phosphoserine aminotransferase 1 isoform 1		IIGNTENLVR,DDLLGFSLR,VIFVQ GGGSGQFSAVPLNLIGLK,GLGIS VLEMSHR,ASLYNAVTTEDVEK,A VELNMISLK,NVGSAGVTVIVR,F GVIFAGAQQ,KFGTVNIVHPK,LPH SVLLEIQK,ELLAVPNNYK	IIGNTENLVR,VIFVQGGGSGQFSAV PLNLIGLK,GAVLVCDMSSNFLSR,F GVIFAGAQQ,FGTVNIVHPK,LPHS VLLEIQK,ELLAVPNNYK

IPI00849074.1		LOC100047305	similar to 40S ribosomal protein S28		EGDVLTLLESER,TGSQQGCTQV R,VEFMDDTSR,VTKVLGR
IPI00755226.2		LOC100047311	similar to protein translocation complex beta subunit		FYTEDSPGLK,TTSAGTGGMWR
IPI00462008.5		LOC100047352	similar to Glyceraldehyde-3-phosphate dehydrogenase	WGKAGAEYVVESTGVFTTMEK,VVDL MAYMASK,IVSNASCTTNCLAPLAK,LI SWYDNEYGYNSR,VIHDNFGIVEGLMT TVHAITATQK,LVINGKPITIFQER,PITIF QER,VEIVAINDPFIDLNYMVMFYQDS THGK,GAAQNIIPASTGAAK	
IPI00118986.1	Q9DB20	LOC100047429	ATP synthase subunit O, mitochondrial		LGNTQGIISAFSTIMSVHR,LVRPP VQVYGIEGR,YATALYSAASK,VSL AVLNPHYK,GEVPCVTTASPLDD AVLSELK,SFLSPNQILK
IPI00850111.1		LOC100047539	similar to SEC15 homolog	STNLLLTRILSSCLLNLIR,PAPPLPAKM AESCEALGTVPEHER	
IPI00125861.2	Q811D0-3	LOC100047603	Isoform 3 of Disks large homolog 1	NAGQAVTIVAQYRPEEYSR,FIEAGQY NNHLYGTSVQSVR	
IPI00187443.1	P59325	LOC100047658	Eukaryotic translation initiation factor 5	VNILDFVVK,AMGPLVLTEVLFDEK,LQ DMLDGFVK	FVLCPECENPETDLHVNP,K,AMGPL VLTEVLFDEK
IPI00849728.1		LOC100047762	similar to Aspartate aminotransferase, cytoplasmic	SVGAYRTDESQPWWLPVVR,IANDNSL NHEYLPIGLAEFR,IVAATLSDPELKF, NTPYVSSPTWENHNAVFSAAAGFK	FLFPFFDSAYQGFASGDLEK,NLD YVATSIHEAVTK,IVAATLSDPELKF K,IGADFLGR,VGGVQSLGGTGAL R,VGNLTVVGK
IPI00133229.1	Q9D0W5	LOC100047806	Peptidyl-prolyl cis-trans isomerase-like 1	VGMVETNSQDRPVDDVK,NFAELAR	
IPI00110172.1	P16951	LOC100047997	Isoform 1 of Cyclic AMP-dependent transcription factor ATF-2	IEEPSVETTHQDSPLPHPESTTSDEK ,MPLDLSPLATPIIR,KAEDLSSLNGQLQ SEVTLLR	
IPI00114862.1	Q99J36	LOC100048066	THUMP domain-containing protein 1	VDLTNPEYTVVVEIHK,FQSVESGANNV VFIR,ELAGIVGSLNSENK	
IPI00127989.1	Q9R0Q7	LOC100048119	Prostaglandin E synthase 3		DVNVNFEK,HLNEIDLFHCIDPND SK,KGESGQSWPR,SILCCLR,LN WLSVDFNWK,LTFSCGGSDNF K
IPI00125901.5	P62301	LOC100048340	40S ribosomal protein S13	GLSQSALPYR,GLTPSQIGVILRDSHG V AQVR,KGLTPSQIGVILR,GLTPSQIGV I QIGVILR,GLTPSQIGVILR,DSHG V LR,DSHGVAQVR,GLAPDLPEDLYH L I K	GLSQSALPYR,KGLTPSQIGVILR,GL TPSQIGVILR,DSHGVAQVR,GLAPD LPEDLYHLIK
IPI00129685.2		LOC100048430	Translationally-controlled tumor protein	EDGVTPFMIFFK,HILANFNYYQFFIGE NMNPDGMVALLDYR,DLISHDELFS D I Y K	EIADGLCLEVEGK,GKLEEQKPER ,DLISHDELFSDIYK
					EIADGLCLEVEGK,VKPFMTGAAEQI K,GKLEEQKPER,DLISHDELFSDIYK

IPI00874964.3		LOC100048438	36 kDa protein	VVDLMAYMASK,IVSNASCTTNCLAPL AK,LISWYDNEYGYNSNR,LVINGKPITIF QER,VIHDNFGIVEGLMTTVHAITATQK, PITIFQER,RVIISAPSADAPMFVMGVN HEK,VEIVAINDPFIDLNYMVMFYQYDS THGK,VIISAPSADAPMFVMGVNHEK, GAAQNIIPASTGAAK,WGEAGA EYVVE STGVFTTMEK	
IPI00849113.1		LOC100048445	similar to fau	RFVNVVPTFGK,FVNVVPTFGK,KVHG SLAR,AQELHTLEVTGQETVAQIK	RFVNVVPTFGK,FVNVVPTFGK
IPI00112004.1	Q9D937	LOC100048454	MCG17849, isoform CRA_a	AAMEVEAPSK,ANITLSGK,QVVGAVID EGLTTK,APQDVAMEDLEDKS	
IPI00420807.3	Q6PDM2	LOC100048559	Isoform 1 of Splicing factor, arginine/serine-rich 1	VVVSGLPPSGSWQDLK,DIEDVIFYK,IY VGNLPPDIR,GGPPFAFVEFEDPR	GGPPFAFVEFEDPR,DGTGVVEF VR VVVSGLPPSGSWQDLK,IYVGNLPP DIR,SHEGETAYIR
IPI00850817.1		LOC100048613	hypothetical protein isoform 1		SHYEEGPGK,NLPFSVENK
IPI00273232.6	Q7TNE3	LOC100048812	Sperm-associated antigen 7	ELAQKQEEEEAAQQGPAVSPASDYK, EFAPSDEELDSYR	
IPI00653423.2		LOC100048832	Branched-chain-amino-acid aminotransferase		DLIITPATVLK,QSILELAQQWGEFK, EMFGSGTACVVCVSDILYK
IPI00673707.2		LOC633677	PREDICTED: similar to Bifunctional aminoacyl-tRNA synthetase	DSKHEELMLGDPCLKDLK,TGQEYKP GNPSAAAVQTVSTK,QYINKDSKHEEL MLGDPCLK	SQGSGLSSGGGAGEGQGPK,TIGVM VMVHGDNMGLVLPFR,DQVDSAVQ ELLQLK,LSSCDGLTSAINELNHCLS LR,VAVQGDVVR,LGVENCYFFIFVS QAALEK,VTEAVECLLSLK,LNQWCN VVR,YNVYPTYDFACPIVDSIEGVTH ALR,VAAQGEVVR,AALLNQHYQVN FK,VVQSHR,VASVQVVVPCGITNA LSEEDREALMAKCNEYR,TGQEYKP GNPSAAAVQTVSTK,AIQGATSHHL GQNFSK,VACQGEVVR
IPI00673290.1		LOC634088	similar to Glyceraldehyde-3-phosphate dehydrogenase	MEGLMTTVHAITATQK,LISWYDNEYG FSNR	
IPI00468437.2	Q9CR47	LOC636306	Ribosome biogenesis protein NSA2 homolog	AHVTHPELK,GTVIEVNVSELGLVTQG GK,TPQGAVPAYLLDR,NPSSPLYTTLG VITK	ATFCLPILGVK,TPQGAVPAYLLDR, NPSSPLYTTLGVITK
IPI00662657.3		LOC640502	similar to UDP-N-acetylglucosamine pyrophosphorylase 1	LLFNAGNIANHFFTVPFLK,HALMSLHH CWVLNAGGHFIDENGSRIPAIPR,HHG NKCTIPWYIMTSGRTMESTK	
IPI00661702.2		LOC641175	similar to Cdv3 protein	LQLDNQYAVLENQK,KTPQGPPEIYSD TQFPSLQSTDK	
IPI00828573.1	Q61784	LOC668715	L1Md-A13 repetitive sequence	ILTQNIQVIQDTMR,SGTIDASISNR,AW TDVIQTLR,IIGIDENEDFQLK,ISGAEDS IENIDTTVK	

IPI00469307.2	P55302	Lrpap1	Alpha-2-macroglobulin receptor-associated protein	DAQMVHSNALNEDTQDELGDPR,KDAQMVHSNALNEDTQDELGDPR,IQEYNVLLDLSR,VSHQGYGSTTEFEPR,AE EGYENLLSPSDMAHIK	
IPI00420706.4	Q6PB66	Lrpprc	Leucine-rich PPR motif-containing protein, mitochondrial	GICNLLNTYHVPELIK,GFTLNDAANSLLIIR,DATVLSFFHILNGAALR,DVGEPVPFPEPPESFAFYIK,AGYPQYVSEILEK,LIAAYCNVGDIEGASK,EEGFPIRPHYFWPLLGHQK,SYALDKDVASAK,SCGSLLPELSL AER,VPENIYK,SIPDAMNLLFLAT EK,LKAEGQPVGSAK,LLAEILK,MANQFALYKPVTDLFLQLVDSGK,NSLILGFR,DLQEEPAPVRK,DLPI TEAVFSALVTGHAR,LEDTAFQVL LALPLSK,NEANGNLQNLSFLES NTLPFSSSLR,DFAETHIK,EMKE KDVVIK,LDASAILDTAK,TSQVTSS DLESTLEK,PSSNISFPLVTVHLEK ,TLELEIPELR,LQQLGVVYDVSHY NALLK,NVQGIIDILK	LDASAILDTAK,TLLSNCKLKK,TLLEIPELR,PSSNISFPLVTVHLEK
IPI00474873.3	Q6EDY6	Lrrc16a	Isoform 1 of Leucine-rich repeat-containing protein 16A	SERPPTVLMTEELSSPK,ALEEVPIHIE DPPFPSVR,DLLESMVDAETLCPNVM R	
IPI00138089.4	Q505F5	Lrrc47	Leucine-rich repeat-containing protein 47	NALGPGLSPELGPLPALR,APGPGLAQ GLPQLHSLVLR	NALGPGLSPELGPLPALR,LDAFP PELFRPGALPLLSELAADNCLR
IPI00123281.1	Q922Q8	Lrrc59	Leucine-rich repeat-containing protein 59		NALGPGLSPELGPLPALR,APGPGL AQGLPQLHSLVLR,PGALPLLSELAADNCLR,KTTCNLFLEVTSATSLQLC K,LFTLPLLHYLEVSGCGSLR
IPI00654388.2	Q3UZ39	Lrrfip1	Isoform 1 of Leucine-rich repeat flightless-interacting protein 1	GSGDTSISMDTEASIR,GTGGNQREDE VQAGDTTVEDQVGTVASGPAK,DMLL ELEEQLAESQR	
IPI00659860.2		Lrrfip2	Putative uncharacterized protein	FSAEDEALSNIAR,AEQDIATLEQSI SRL EGQVLR	
IPI00225459.1	Q8BUI3	Lrwd1	Isoform 1 of Leucine-rich repeat and WD repeat-containing protein 1		VTGLHQQLCTSVNTIYDNAVQGLR ,LQQLPADFGR,LVNLQHLDLLNNR, LSTLPSDFCGLTHLVK,LVTLPVSF AQLK
IPI00330362.5	Q3UM18	Lsg1	Isoform 1 of Large subunit GTPase 1 homolog		IQSLNLSGLQLLSEHLDPNLLGR,EL DLSNNLLETLPANLGLSHLR,VPGEE FFSVAWTALTVVTQAGHK
IPI00121579.1	Q8VC85	Lsm1	U6 snRNA-associated Sm-like protein LSm1	SIDQFANLVLHQTVER,ESDTPLQQVSI EEILEEQR	
IPI00172202.1	Q8K2F8	Lsm14a	Protein LSM14 homolog A	DEVFEYIIFR,YEGILYITIDTENSTVALAK ,DFDFESANAQFNK	

IPI00229470.2	Q8CGC4	Lsm14b	Protein LSM14 homolog B	YEGILYTIIDTDNSTVALAK,SFFDNISSE LK	
IPI00136054.1	O35901	Lsm2	snRNP core protein SMX5 isoform 1		YVQLPADEVDTQLLQDAAR,LTDI SVTDPEK
IPI00129873.1	P62313	Lsm6	U6 snRNA-associated Sm-like protein LSm6		YGDAFIR,LNSGVDIR,GNNVLYIS TQK
IPI00410804.1	Q9CYI4	Luc7I	Isoform 1 of Putative RNA-binding protein Luc7-like 1	AEQLGAEGNVDESQK,LAETQEEISAE VSAK,ALLDQLMG TAR,VCEVCSAYLG LHDNDR,SHLLDCCPHDILAGTR	
IPI00380309.3	Q7TNC4	Luc7I2	Isoform 1 of Putative RNA-binding protein Luc7-like 2	LHLGFIEIR,VCEVCSAYLGLHDNDR,LA ETQEEISAEVAAK,VEQLGAEGNVEES QK,VEQLGAEGNVEESQKVMDEVEK	
IPI00122418.1	Q5SUF2-2	Luc7I3	Isoform 2 of Cisplatin resistance- associated overexpressed protein	YLQSLLAEVER,LALSQNQQSSGAAGP TGK,YYLCGFPAELFTNTR,IDVLLQKI EELGSEGK	KLVEQLK,LALSQNQQSSGAAGPTG K
IPI00322204.4	Q8R4U7	Luzp1	Leucine zipper protein 1	MVDLEKLEEALSR,EKPDSDDDLDIES FVTAK,VIQAEGSDSSTLAEIEVLR,NN DLQDNYLTELNR,EGVDQPVAVVMED SSQHEALR,SLASQLEEIK,TFSDSTHV SVPNDIVGK,SQENILQGFSLPNK	
IPI00113232.3	Q08288	Lyar	Cell growth-regulating nucleolar protein	ELLQQISAFDNVPR,VHSDSVLEQVWD IFSEASSSEQDQQPPSHTAK,LENHQ ENLR,VIAQYHAVMNDHHTSEEELLAIF NR,KPNVSPK,INELIK	NQEAGHEAAGEEAAEASGPPEK K,NQEAGHEAAGEEAAEASGPPE ELLQQISAFDNVPR,LENHQENLR K,LENHQENLR
IPI00130018.1	P97823	Lypla1	Isoform 1 of Acyl-protein thioesterase 1		ALINPANVTFK,DISVLQCHGDCDPL VPLMFGSLTVER,LAGVTALSCWLP LR
IPI00173156.1	Q8K3C3	Lzic	Protein LZIC	VLALAGFDVEK,ETLEQLSEFNDSLK,E TLEQLSEFNDSLKK	
IPI00848566.1		Macf1	microtubule-actin crosslinking factor 1		AFSIDIIR,LFGEDVEVLNWLAEV EDK,LVLDTVNEVSHALLELVPWR ,ALEEEIENHATDVHQAVK,RGEE LIGR,FVTISGQK,ALALDEAVSQS AQITEFHDK,FLDVLELAEK,LISDT VGQR,QLEESASHLACFQAAESQ LRPWLMEK,LELLLQIANK,NTQGT TTSSHTSASADIEK,YYQLEELAF R,ELMMGVLGPLSIDPNMLNAQK, NDVLAHQATVATVNK,SLRPAVE R,AILEQQVLAEEELTTK,YTALVTLT TQHVK
IPI00132692.1	Q9CQL1	Magohb	Protein mago nashi homolog 1-related		FGHEFLEFEFRPDGK,IGSLIDVN QSK,VFYLLVQDLK

IPI00606905.1	Q571K4	Map3k7ip3	Mitogen-activated protein kinase kinase kinase 7-interacting protein 3	SAAPEIQIPISVIPGSGGGEK,PGSHSVA YLPYTASSLPK,ATTENLLNLVDQEER, SSSSGSDDYAYTQALLLHQR		
IPI00130014.3		Map4k4	mitogen-activated protein kinase kinase kinase 4		RPHAQQQPPPPQQQDR,EGTLIVR	
IPI00119663.3	P63085	Mapk1	Mitogen-activated protein kinase 1		NYLLSLPHK, YIHANVLHR, IEVEQA LAHPYLEQYYDPSDEPIAEAPFK	
IPI00117896.3	Q61166	Mapre1	Microtubule-associated protein RP/EB family member 1	QGQETAVAPSLVAPALSKPK,KNPGV GNGDDEAAELMQQVK,QQQETAVAP SLVAPALSK	NIELICQENEGENDPVLQR,KPLGSS TAAPQRPIATQR	
IPI00229534.5	P26645	Marcks	Myristoylated alanine-rich C-kinase substrate	EAAEAEPAEPSSPAEAEAGASASSTS SPK,DEAAAAATEPGAGAADKEAAEAE PAEPSSPAEAEAGASASSTSSPK,EEL QANGSAPAADKEEPASGSAATPAAAE K	ESGEGAEAEAGATAEGAK,GEATA ERPGEAAVASSPSK	LSGFSEFKK,GEATAERPGEAAVASS PSK
IPI00281011.7	P28667	Marcks1	MARCKS-related protein	GEGESPPVNGTDEAAGATGDAIEPAP PSQEAERAK,GEGESPPVNGTDEAAGA TGDAIEPAPPSQEAERAKGEVAPK,EGD TEEEAGPQAAEPSTPSGPESGTPAS AEQNE		AAATPESQEPQAK,GDVTAEAAAGA SPAK
IPI00461469.3	Q68FL6	Mars	Methionyl-tRNA synthetase, cytoplasmic		NSELLNNLGNFINR,ADKNQVAA EVAK,ILATSFICTLPAGHR,LFVSE GSPGSLPVLAAAAAR	VLTHIDHLSLR,DNVPFHGLVFPSCV LGAEDNYTLVK,KGEDILGPLR,ILAT SFICTLPAGHR,PAAVEAVTAAGSQ HIQTLTDEVTK,YHAIHADIYR,NQVA AEVAK,LFVSEGSPGSLPVLAAAAAR
IPI00454016.5	Q3THS6	Mat2a	S-adenosylmethionine synthetase isoform type-2	TQVTVQYMQDR,IIVDTYGGWGAHGG GAFSGK,FVIGGPQGDAGLTGR,TGMI LLAGEITSR,YLDEDTIYHLQPSGR,VIK AVVPAKYLDEDTIYHLQPSGR	ICDQISDAVLDAHLQQDPDAK,FVI GGPQGDAGLTGR,HIGYDDSSK, VACETVAK,TCNVLVALEQQSPDI AQQVHLDLDR,TGMILLAGEITSR,YL DEDTIYHLQPSGR	ICDQISDAVLDAHLQQDPDAK,KPIY QR,FVIGGPQGDAGLTGR,NFDLRP GVIVR,VACETVAK,HIGYDDSSK,TC NVLVALEQQSPDIAQQVHLDLDR,TAA YGHFGR,YLDEDTIYHLQPSGR
IPI00468802.5	Q99LB6	Mat2b	Isoform 1 of Methionine adenosyltransferase 2 subunit beta	RPDVVESQPDAASQLNVGASGNLAK, VLITGATGLLGR,IPVLYGEVEKLEESA VTVMFDK		
IPI00459789.2	Q99LB6-3	Mat2b	25 kDa protein	VLITGATGLLGR		VLITGATGLLGR,EVLGCCLGTGWG LGGGNISALMLRK
IPI00453826.2	Q8K310	Matr3	Matrin-3	DTSENADGQNDENKEDYTIPEYR,G DTDQASNILASFGLSAR,IEELDQENEA ALENGIK,YQKLLK,ITPENLPQILLQLK, VIHLSNLPHSGYSDSAVLK,YQLLQQLVE PFGVISNHLILNK	GPSLNPVLDYDHGSR,GDTDQAS NILASFGLSAR,ITPENLPQILLQLK ,IGPYQPNVPVGIDYVIPK,YQLLQQL VEPFGVISNHLILNK,VIHLSNLPH SGYSDSAVLK	GPSLNPVLDYDHGSR,GPLPLSSQH R,DLAAGIGLLAAATQSLSMASLG R,NTHCSSLPHYQK,GDTDQASNILA SFGLSAR,GAPPSSNIEDFHGLLPK,I TPENLPQILLQLK,IGPYQPNVPVGID YVIPK,VIHLSNLPHSGYSDSAVLK,Y QLLQQLVEPFGVISNHLILNK

IPI00131067.1	Q9Z2D8	Mbd3	Isoform 1 of Methyl-CpG-binding domain protein 3	YLGGSM DLSTDFDR,LSGLSAFDIAEELVR	KQEELVQQVR,GLQGVGPGCTDETLLSAIASALHTSTLPITGQLSAAVEK,LSGLSAFDIAEELVR	KQEELVQQVR,GLQGVGPGCTDETLLSAIASALHTSTLPITGQLSAAVEK
IPI00124157.3	Q9WTZ2	Mbtps1	Membrane-bound transcription factor site-1 protease			AGLLTLEDHPNIK,QALIASAR,RPQLAQQAHPAR
IPI00170316.1	Q8K5B2	Mcf2	Multiple coagulation factor deficiency protein 2 homolog	NNDGYIDYAEFAK,DDDKNNDGYIDYAEFAK		
IPI00115902.2	O55142	mCG_1036414	60S ribosomal protein L35a	IEGVYAR,VMLYPSR,NNTVTPGGKPK,DETEFYLGK		CAYVYK,IEGVYAR,AIFAGYK
IPI00222546.5	P67984	mCG_130059	60S ribosomal protein L22	ITVTSEVPFSK,IKVNGKAGNLGGVVTIER	FTLDCTHPVEDGIMDAANFEQFLQER,YFQINQDEEEEEDED,ITVTS EVPFSK,AGNLGGGVVTIER	FTLDCTHPVEDGIMDAANFEQFLQER,ITVTSEVPFSK,AGNLGGGVVTIER
IPI00323820.4	Q3UJN1	Mcm2	Putative uncharacterized protein	ISHLPLVEELR,IFASIAPSIYGHEDIK,AIFTTGQGASAVGLTAYVQR,DNNDLLF ILK,FGAQDQTIEPEK,ESLVVNYEDLAAR,DYVMEDDVNMAIR,DTVDPVQDE MLAR,VMMESFIDTQK,GLALALFGGEPK,FGAQDQTIEPEKDLMDK	TSHIAMEQQSISISK,FVVGSHVRA,AGIVTSLQAR,FDVLCVVR,ITNHIHVR,VAVGELTDEDVK,RADALTS SPGR,DNNDLLLFILK,THVDSHGNVFK,ESLVVNYEDLAAR,EWTL EAGALVLADR,GLALALFGGEPK	ISHLPLVEELR,ITNHIHVR,FVVGSHVR,IFASIAPSIYGHEDIK,AGIVTSLQAR,THVDSHGHNVFK,KDLMDK
IPI00108338.1	P25206	Mcm3	DNA replication licensing factor MCM3	AALLEVFQEAHEQSVGMLHLTESINR,DFVASIDATYAK,IKPTLTQESAAYIAE EYSR,TPMENIGLQDSSLR,DIQPAFS ADDIAK,SVDVILDDDLVDK,LIVSVNDR,GDINILLIGDPSVAK	TVLIACNVK,AALLEVFQEAHEQS VGMLHLTESINR,TPMENIGLQDSSLR,GVVCIDEFDK,APAGQLPR, TVDLQDAEEAVELVQYAYFK,IQV VGTYR,TAIHEVMEQGR,RLEAGA MVLADRGVVCIDEFDK,AIICLLLG GVER,LLNNAFEELVAFQR,SVDVI LDDDLVDK,LIVSVNDR,GDINILLI GDPSVAK	CSVLAAANPVYGR,IQVVGTYR,IKPTLTQESAAYIAEYSR,SLAPSIHGH DYVK,LLNNAFEELVAFQR,TLTSCF LSCVVCVEGIVTK,GVVCIDEFDK,APAGQLPR
IPI00117016.1	P49717	Mcm4	DNA replication licensing factor MCM4	KGLQVDLQSDGAAAEDIVPSEQSLGQK,GILLQLFGGTR,TSVLAAANPIESQW NPK,NLNPEDIDQLITISGMVIR,FDLIFLMLDPQDEAYDRR,SVLHEVMEQQTLSIAK,LSEESQALIEAYVNMR	LVIWGTDVNVATCK,VNVTGIYR,GILLQLFGGTR,TSVLAAANPIESQW NPK,NLNPEDIDQLITISGMVIR,T GIVDSILTGTMSATSR,VEAIDVEE AKR,THIDVIHYR,SVLHEVMEQQT LSIK,RLHGLDEEAQK	LASALAPSIYEHEDIK,TSVLAAANPIESQW NPK,AGIICQLNAR,FLQCFTD PLAK,KPDIYER,SQLLQYVYNLVP R
IPI00309398.6	Q52KC3	Mcm5	minichromosome maintenance deficient 5, cell division cycle 46	VTIMGIYSIK,FAIGSQVSEHSIVQDFTK,LQELPDAVPHGEMPR,LAALPNIYELIS K,PAGDELLQDIQVMLK,GEDNIDFMPTILSR,LQPFATEADVEEALR,FDMIFIVK,WDETKGEDNIDFMPTILSR,IPGIIISAS AVR,QPAEHLQLLEAAK,VAIHEAMEQQTISIAK,SFAGSVSPQEEEEFR	VTIMGIYSIK,FAIGSQVSEHSIVQDFTK,VLGIQVDTDGSGR,LSAEAA EK,LAALPNIYELISK,PAGDELLQDIQVMLK,AGITTTLSNR,GSSAAGL TASVIR,GVVCIDEFDK,AIACLLFG GSR,LQPFATEADVEEALR,FDMIFIVK,IPGIIISASAVR,VAIHEAMEQQTISIAK	FAIGSQVSEHSIVQDFTK,CSVLAAANPVYGR,LAALPNIYELISK,PAGDELLQDIQVMLK,GSSAAGL TASVIR,GVVCIDEFDK,HMQLYCDR,RGEIQHR,AIACLLFGGSR,LQPFATEADVEEALR,IPGIIISASAVR,RSSIPITVR,SDAS PSSIR

IPI00123881.1	P97311	Mcm6	DNA replication licensing factor MCM6	DFYVAFQDLPTR,YLQFAEELIRPER,D QVAIHEAMEQQTISITK	YTQPNICR,GVLLMLFGGVPK,YL QFAEELIRPER,DQVAIHEAMEQQ TISITK,LFLDFLEEFQSDGEIK,A SSAAGLTAAVVR,ELRDEEQTAES IK,IQETQAE LPR,LTHYDHVLIET QAGLK,LVFLACHVAPTNP,DFY VAFQDLPTR,EIESEIDSEEELINK K,AEAVESAQAGDR,ISNLIVLHLR	TSILAAANPVSGHYDR,NLYHNLCTS LFPTIHGNDEVK,RIVDLHSR,AEAVE SAQAGDR,HVDEFSR,ASSAAGLT AAVVR
IPI00126396.2	Q3V122	Mcm7	Putative uncharacterized protein	FLQEFYENELGK,SLEQNVQLPAALL SR,QPTVPESLADYITAAYVEMR,TGFQ QMAQGLLSETYLEAHWIVK	TLLAILR,SITVVLEGENTR,SVHFS EAEQR,IQEHSDQVPVGNIPR,LA QHITYVHQHSR,DSVSGELTLEG GALVLDQGVCCIDEFDK,EQVAL YVDLDDIAEDDPELVDSICENAK, DVLDVYIEHR,AGILTTLNAR,SQLL SYIDR,MVDIVEKEDVNEAIR,LFG DVVQELLPEYK,TAIHEVMEQQT SIAK,FDLLWLIQDRPDR,LAASIAP EYGHEDVKK,GSSGVGLTAAVLR ,IAQPGDHVSVTGIFLPVLR	SQLLSYIDR,LFGDVQELLPEYK,SL EQNVQLPAALLSR,YGTQLVHLAHR, IQEHSDQVPVGNIPR,LAASIAP HEDVK,AGILTTLNAR,GSSGVGLT AVLR,IAQPGDHVSVTGIFLPVLR
IPI00753701.3		Mdc1	mediator of DNA damage checkpoint 1			AVLALGGSLASSVNEASHLVTDR,L GLPLLSPEFLLTGVK,SPDCSVALP FPSISK,PTALVTQGR
IPI00336324.11	P14152	Mdh1	Malate dehydrogenase, cytoplasmic		VIVVGNPANTNCLTASK,GEFITTV QQR,AIADHIR,EVGVEALKDSDS WLK,DLDVAVLVGSMMPR,LGVTAD DVK,FVEGLPINDFSR,KLSSAMSA AK	VIVVGNPANTNCLTASK,GEFITTVQ QR,AIADHIR,VLVTGAAGQIAYSLLY SIGNSVFGK,FVEGLPINDFSR
IPI00323592.2	P08249	Mdh2	Malate dehydrogenase, mitochondrial		LTLYDIAHTPGVAADLSHIETR,GY LGPEQLPDCLK,VAVLGASGGIGQ PLSLLLK,IFGVTTLDIVR,VNVPVI GGHAGK,GCDVVIPAGVPR,VDF PQDQLATLTGR,ANTFVAELK,EG VVECSFVQSK,IQEAGTEVVK,HG VYNPNK	LTLYDIAHTPGVAADLSHIETR,GYL GPEQLPDCLK,ETECTYFSTPLLLGK ,VAVLGASGGIGQPLSLLLK,IFGVTT LDIVR,KGEDFVK,VNVPVIGGHAGK, GCDVVIPAGVPR,VDFPQDQLATL TGR,EGVVECSFVQSK,IQEAGTEV K

IPI00458039.3	A2ANY6	Mdn1	Midasin homolog		ESPLPHLVESLDQFTGGVISSVSE LQSLK,FVELHFDELPSSELETILH K,RVVLEGR,LICQHIIISGNVK,ANIL EDVNLDELK,LEAVLLLMQR,LVEE YALYPDTVAPLLASILQLQHGM, TGGQVNHDLHER,KQEEADVIQE VLEK,ELLITETQEVVR,NTVQGIV NFYTALR,LNSVLEVEK,LLEDDF WASVSTLHVQK,NLLSHLQTGR,T SLVAALAK,ETFEELFVQTFSK,IIS SVSELLER,SFVLVESVCK,GVTIEI VNK,SLLQAWGLILR,TFIYLDR,IL GSVQWR,LNKPILLEGSPGVGK,G SPASSVSTLSHTAILIVQYLQR,LL EEAQLQDLEK,LTAALATPVK,LIQ VEGYWISVGDKEPK,LVQDLLESH TASLQAR,LKPEIVINELDVQVGR ,TSLVEHLAAVTGR,YLLGLTELLP AHQR,SAQVLQNLK,EDSFFLLD EISLADDSVLER,IFTEANLVSVGS K,SALSIVSSTR,LLQALHTDGP,K, TELYVEELESK
IPI00115977.1	Q99KE1	Me2	NAD-dependent malic enzyme, mitochondrial		ALTTQLTDAELAQGR,LKPSVIIGV AGAGPLFTHGVK
IPI00110388.2	Q2VPQ9-2	Meaf6	Isoform 2 of Chromatin modification- related protein MEAF6	KQELAETLANLER,SSVTSAAAVSALA GVQDQLIEK,SSVTSAAAVSALAGVQD QLIEKR,QELAETLANLER	
IPI00224399.1	Q8C1S0	Med19	Mediator of RNA polymerase II transcription subunit 19	LSNFLPDLPGMIDLPGSHDNSSLR,SLI EKPPILGGSFNPITGTMLSGFR	
IPI00405351.1	Q8C611	Mesdc2	unnamed protein product	TLMMFVTVSGNPTEK,LLEQWEKDDDI EEGDLPEHK,RPSAPIDFSK,ETEEITSL WQGSLFNANYDVQR	
IPI00272622.1	Q8BP48	Metap1	Methionine aminopeptidase 1		LQCPTCIK,LFHTAPNVPHYAK
IPI00272238.5	Q3UI33	Metap2	Methionine aminopeptidase	GAVSAVQQELDKESGALVDEVAK,PG MTMIEICEKLEDCSR,ALDQASEEIIWN DFR	
IPI00228590.2	Q9CQU1	Mfap1b	Microfibrillar-associated protein 1	GAFFMDEDEEVYK,YTHLVDQDTSFD SAWGQESAQNTK	
IPI00124959.1	Q61769	Mki67	Ki-67 protein	NQTPVEAGDVGSPADTPEHSSSPQR, VQPLEDHSVFQELFQTSR,LESVEEQV STVMKTEEMEA	SQSPEDLSGVQEVFQTSQGHNK,KSL GTHSPAVLK,FDASAENVGIIK,LDS TAGMPNSKR
IPI00225912.8	Q91VE6	Mki67ip	Isoform 1 of MKI67 FHA domain- interacting nucleolar phosphoprotein	GIDYSFPSLVLPKPK,GYAFVEFESEDV AK,SQVMEVGGDKDDEIILK,PSLALNP QEDSQFEK,NALFHRPSFPAVK,NIAVA HR,GIDYSFPSLVLPK,IVAETMDNYLF GER	NALFHR,GHLQMLK,NIAVAHR,GIDY SFPSLVLPK

IPI00885322.1		Mlt4	207 kDa protein	LSPTYVLYMACR,EELSSGDSLSPDP WK,TPAAVLPTPVAVSQPIR,TQVLSPD SLFTAK,SQDADLPGSSGAPENLTFK,L LEPEEPGLSRPPLPR,QKDEDDDEEE DDDVDTMLIMQR	
IPI00314370.3	P51949	Mnat1	CDK-activating kinase assembly factor MAT1	LFIQKEEELQQALK,QAFLDELESSDLP VALLLAQHK,EQEELEEALVER,QAFL DELESSDLPVALLLAQHKDR	
IPI00132323.6	Q8K396	Mnd1	Meiotic nuclear division protein 1 homolog	IGTSNYYWAFPSK,MMEIFFETK	
IPI00830528.1	Q3UD86	Mov10	Putative uncharacterized protein	FLAAVAHSPLAAQLKPTTPFK,LLTLEV PGVAESR,GDHLFALLSSETQQDDPVT YK,WEGLPQQGFPIIFHGVMGK,QLLPT LLQGPSIFTAPK,VLITTLITASR,TIYNH DFKPSYGTAPGFSSMLYGMK	GTTRPAPYIIFGPPGTGK,ALLIVV GNPLLLGHDPDWK,RHQNLQPER DVEVQGPHEAR,RHQNLQPER,QLL ,VLITTLITASR,LDLQQGQDLLQGL SK,SVILISTVR PTLLQGPSIFTAPK,LDLQQGQDLLQ GLSK,WADVQLPEKR
IPI00402911.1	Q810V0	Mphosph10	U3 small nucleolar ribonucleoprotein protein MPP10		MQIKPPGKPR,DQAWDDVERK,LDA LSNFHFIPKPPVPEIK
IPI00761693.5	Q8BVD5	Mpp7	Isoform 1 of MAGUK p55 subfamily member 7	QNPLPILHGAAALADDLTELQNK,KS EQYDTADVPTYEEVTPYR,IIINDDLTVA FNELK	
IPI00406030.2	Q5SWZ5	Mprip	Myosin phosphatase Rho interacting protein	LLAEETAATISAIEAMK	
IPI00132703.1	Q9CQL7	Mrfap1	MORF4 family-associated protein 1	LWEMDNMLIQIK,TQVEASEESALNHL QGAGGAEPR,MAEMLVQLVR	
IPI00885509.1	Q9CQT1	Mri1	Methylthioribose-1-phosphate isomerase		VTVLTHCNTGALATAGYGTALGVIR, EGATEETVR,HLEEQTNPR
IPI00118237.2	Q99N96	Mrpl1	39S ribosomal protein L1, mitochondrial	SYTYMESDPEDDVYLK,TVEPFASVIAL PHLFSSEVNK,TTEAETEETQTAEAA	
IPI00132412.3	Q3TBW2	Mrpl10	39S ribosomal protein L10, mitochondrial		LMAITEYIPPK,SVPFLPLLGGCVDD TILSR,LPSLDQLQGGQLVGGLTHLMA QTR
IPI00118963.1	Q9DB15	Mrpl12	39S ribosomal protein L12, mitochondrial		LVESLPQEIK,NYVQGINLVQAK,SEA LAGAPLDNAPK
IPI00134011.1	Q9D1P0	Mrpl13	39S ribosomal protein L13, mitochondrial		HIAFSGNK,LAVIASNK,NLVEELPQP R
IPI00118226.1	Q99N91	Mrpl34	39S ribosomal protein L34, mitochondrial		LSTPAGVQVILR,GNEYQPSNIK
IPI00323669.3	Q9Z2Q5	Mrpl40	39S ribosomal protein L40, mitochondrial	SMLEAQQEALEELKLESAELYAEAIK,A SQELIPIEDFITPVR	
IPI00153603.1	Q8R2L5	Mrps18c	28S ribosomal protein S18c, mitochondrial		HITGLCGK,KCVLCEK
IPI00754363.1	Q99LZ4	Mrps23	Mrps23 protein (Fragment)	AFDLFNPNFK,YTELQNLGETDEEKLF VETGK	
IPI00108194.1	Q80ZS3	Mrps26	28S ribosomal protein S26, mitochondrial		LQLEAQAQEVQK,LEFTLEVR

IPI00110672.3	Q9CY16	Mrps28	28S ribosomal protein S28, mitochondrial	FLGGTTDTTILEADAVLLGLQEIR,IFHIV EDDLYIDFGGK	
IPI00124828.1	Q61733	Mrps31	28S ribosomal protein S31, mitochondrial	KPSASLEATVDR,KVDQSVANEISQK AAESQGR,IEFAK,NEFLSPELVAAASA VADSLPFDK	
IPI00222538.2	Q8BJZ4	Mrps35	28S ribosomal protein S35, mitochondrial	IPNFLHLTPVAIK,SSENSVLQTLQM R	
IPI00118196.1	Q99N87	Mrps5	28S ribosomal protein S5, mitochondrial	SGFLWPGLNVPLIK,VLVAVGNGNGAA GFAIGK	
IPI00118158.1	P43247	Msh2	DNA mismatch repair protein Msh2	LNLVEAFVEDSELR,ALNLFQGSV EDTTGSQSLAALLNK,ETLQLEGA AEAGFVR,NKGEYEEAQDAIVK,G TSTYDGFGLAWAISDYIATK,IILEF LSK,TLQSVVLSK,LYQGINQLPSVI QALEK,LGLCEFPENDQFSNLEAL LIQIGPK,GVCDQSFGIHVAELANF PR,KMQSTLINAAR,GGILITER,DS LIIIDELGR,GDFYTAHGEDALLAA R,VGAGDSQLK,KLGLCEFPENDQ FSNLEALLIQIGPK,FTNSELSSLN EETYK	HVGVGYVDSTQR,ALNLFQGSVED TTGSQSLAALLNK,FFEGMPEKPKST TVR,VGAGDSQLK,LGLCEFPENDQ FSNLEALLIQIGPK,LYQGINQLPSVI QALEK
IPI00310173.2	Q6GTK8	Msh6	mutS homolog 6	TFFGDDFIPNDILIGCEEEAEEHG K,LDAVEDLMAVPDKVTEVADLLK ,SIVYWGIGR,LANLINAER,SONF DLVIFYK,LANLPEEVIQK,GNWAH SGFPEIAFGR,VHVQFFDDSPTR, GTATFDGTAIANAVVK,RATPILSE TK,GRFPDLTAEALQR,YQLEIPENF ATR,HATAHSLVLVDELGR,VYGV CFVDTSLGK,KTGLITPK,TLVAHY PPVQILFEK,IHNVGSPLK,FFIGQF SDDR,AIMYEETTSK,AGFDSY DQALADIR,KLPDLER,AGFDSY DQALADIRENEQSLLEYLDK,IIDF LSALEGFK,GMTSES SVGLTPG ESELALSALGGIVFYLK,VSGLLE EVAGGFTSK	TLVAHYPPVQILFEK,YQLEIPENFAT R,GSLSSCLQEGLIPGSQFWDATK,I HNVGSPLK,GGHFYSSK,VYGVCFV DTSLGK,AGFDSYDQALADIR,FPD LTAEALQR,KWWQLK,IIDFLSALEGF K,LANLPEEVIQK,VSGLLEEVAGGF TSK
IPI00120924.1	Q920Q6	Msi2	Isoform 1 of RNA-binding protein Musashi homolog 2	GFGFVTFENEDVVEK,IFVGGLSANTV VEDVK	
IPI00110588.4	P26041	Msn	Moesin	TQEQLASEMAELTAR,FYPEDVSEELI QDITQR,APDFVIFYAPR,IGFPWSEIR,T AMSTPHVAEPAENEHDEQDENGAEA SAELR,TAMSTPHVAEPAENEHDEQD ENGAEASAE LRADAMAK	IQVWHEEHR,FYPEDVSEELIQDITQ QR,LFFLQVK,KAQQELEEQR,AP DFVIFYAPR,IGFPWSEIR,FVIKPID K,RKPDITIEVQQMK

IPI00853911.1	Q8K4B0	Mta1	Metastasis-associated protein MTA1	QVYIPNYNKPNNQISASSVK,VGDYV YFENSSSNPYLIR,EDFFFYSLVYDPQ QK,SLTSIIYYMWK,QIDQFLVVAR,DI SSSLIALADK,EVEEEVENPEMVDLPE K	
IPI00128230.1	Q9R190	Mta2	Metastasis-associated protein MTA2	QIDQFLVVAR,DISSSLNSLADSNAR,T PINRNQLTQNR	
IPI00125745.1	Q924K8	Mta3	Isoform 1 of Metastasis-associated protein MTA3	VGDYVYFENSSSNPYLIR,RPFVAINYA AIR,DISNTLIMLADK,QIDQFLVVAR,SL TSIIYYMWK	
IPI00132096.3	Q9CQ65	Mtap	S-methyl-5'-thioadenosine phosphorylase	EELQPGDMVIDQFIDR,IGIIGGTGLDD PEILEGR	TWGADVNMTTVPEVVLAK,IGIIG TGLDDPEILEGR
IPI00118075.1	P20357	Mtap2	Microtubule-associated protein 2	IVQVVTAEAVAVLK,LINQPLPDLK,RGV SGDREENSFSLNSSISSAR	
IPI00848818.1	Q05BJ2	Mtap4	microtubule-associated protein 4	AAEQMSTLPIDAPSLENLEQK,ETETT LPIKMDLAPPEDVLLTK,MDLAPPEDVL LTK,DMSPLPESEVTLGK,ALETMAEQT TDVVHSPSTDTTPGPDTEAALAK,GMV SLSEIEEALAK,TEFIPLLDGDEK,PLVT DMTPSLETMTLTK,DVAPPMEEEIVP GNDTTSVK,VAEFNNVTPLSSEEVTSV K,VGSLDNVGHLPAGGAVK,AAVGVTG NDITTPPNKEPPPSPEK	
IPI00282957.4	A2AJI0	Mtap7d1	Isoform 1 of MAP7 domain-containing protein 1	TAEGLLPFAEAEFLK,SLQLSAWESSI VDR	
IPI00750596.1	Q9D050	Mtch2	Putative uncharacterized protein		EEGIVGFFAGLIPR,VLIQVGYEPL PPTIGR,LCSGVLGTVVHGK
IPI00330599.1	Q80WJ7	Mtdh	Protein LYRIC		VLTDSGSLDSTIPGIENIITVTEQLT TASFPVGSK,GDSTLQVSSR
IPI00122862.4	Q922D8	Mthfd1	C-1-tetrahydrofolate synthase, cytoplasmic		TDPTTLTDEINR,EAGVQIAGR,T PVPSDIAISR,ASQAPSSFQLLYDL K,TDTDAELDLVSR,KVVGDVAYD EAK,LDIDPETITWQR,ITIGQSPT K,DVDGLTSVSAGK,YVVVTGITPT PLGEGK,EIGLLTEVELYGETK,M FGVPPVAVNVFK,KITIGQSPTK ,THLSLSHNPEQK,VVGDVAYDEA K,AYTEEDLDLVEK,YSGLQPHVV VLVATVR,IFHELTQTDK,VLLSAL DR,STTTIGLVQALGAHLR,IYGAD DIELLPEAQNK

IPI00228113.5	Mthfd11	111 kDa protein		ASGLVPNVVVLVATVR,FQFLYDV QLPIVEK,KITIGQGSTEK,AEIDL CELAK,THLSLSHEPDKK,ILHEST QTDK,EIGLLADEIEIYGK,LIAEES VSLAAALR,QIQIAQLFGVPVVA LNVFK,YVLVAGITPTPLGEGK,VL NALKPEK,LQPLSPVPSDIEISR,A AVELVEK,DVDGVTDLNLGK,STVT IGLVQALTAHLK,LSGGSPGVPVD K,VQLSLLER,VIAQTVYGAK	LNIDPATITWQR,THLSLSHEPDK,LQ PLSPVPSDIEISR,THLSLSHEPDK, STVTIGLVQALTAHLK
IPI00228583.5	P62774	Mtpn	Myotrophin	GPDGLTALEATDNQAIK,TVKGPDGLT ALEATDNQAIKALLQ	
IPI00132938.2	O35682	Myadm	Myeloid-associated differentiation marker		TTTTTTSSSTTVGSAR,ALTQPLGLL R
IPI00331361.2	Q7TPV4	Mybbp1a	Myb-binding protein 1A	NLLPVLAQHVAGPSR,ALVDILSE VPESMFQEILPK,LSVDLTAPLGVL QSK,LVQQAGSQADASVALYYFN ASLYLLR,AQDASLNVPER,KSPH PQSALPK,KATPQIPETK,ILSQHP NHLQGQPIK,LSQVNGATPVSP PESK,FCLFHAFK,YLELFLAK,D IPSDTQSPVSTK,LESLMGSVDLF SEDNIPSLVNILK,FELFWK,ASTP SQVNGITGAK,ATQTLQTLG K,VLEEGLLK,NVTSVTSLTQQR,VY SASLESLLTKR,DMFLQPDNL K,STANQK,SPSLLQSGVK,YCHEVGP SPSLLQSGVK,YCHEVGPCAEAL CAEALHAQVER,ELSILELLNTLLR,E HAQVER,ELSILELLNTLLR,SPAE AARPCYSLAQLLQSFEDIPLCDIL SCDVLGDIQTCIK,EAARPCYSLAL DQIQEK,SPAESCDVLGDIQTCIK,FL NAEALQSYVAWLRDMFLQPDNL PQIPETK,NLLPVLAQHVAGPSRP VDFSTANQK,VYSASLESLLTK,NLL R,VYSASLESLLTK,VCFEDPEWE PVLAQHVAGPSRPR,ATPQIPETK,V QLITQLLQSGK,SPAPSNPTLSPSTPA CFEDPEWEQLITQLLQSGK,SPAPSNP K,LHGADTEDSEDQAANCLDLDF TLSPSTPAK,LVQLADMMLLNHN VTR,ALDLIEVLVTK,EFLDFFWDIA GLGVGR,IPEISTYVGTFLGECQDD KPDQETR,LVQLADMMLLNHN LIT PK,SVFGHICPHLTPR,LLEYLR,L LPN GLGVGR,SVFGHICPHLTPR,LLEY VALDLLR,LQQSLQQGNHSSGSNR, LR,LPNVALDLLR,LQQSLQQGNH LLGASPLLSEEQLQLVMR,LVSLVD SSGSNR,LLGASPLLSEEQLQLV HLHLEK,AEPATPAEAAQSDR,NSSL MR,LVSLVDHLHLEKDEAVVEQIA TVPMFLSLFSR R,AEPATPAEAAQSDR,FLNAEAL QSYVAWLR,NSSLTVPMFLSLFS R	

IPI00608114.2	Mycbp2	pam, highwire, rpm 1			ANALFLLSLSSAAEPSILCYHPAK,F SADTDILLGGLGLFGGR,LPKIIIEVGL CEVFELIK,CFAIGYEFSPGPDEGVI QLEK,FYNDAAGYAMNR,ILSEGVD HCMVK,PILDIPYWNNAKPAPMPNIGS K,QVTSLLR
IPI00226891.1	Q8C854	Myef2	Isoform 1 of Myelin expression factor 2	LGSTIFVANLDFK,RDTHPGEPEKPPR	LGSTIFVANLDFK,RDTHPGEPEK PPR
IPI00122392.1	Q9JK81	Myg1	UPF0160 protein MYG1, mitochondrial	LLAQLLGTSEEDSVVDTIYDK,IGTHNG TFHCDEALACALLR,LNPTWNQPNQD TEAGFR,KLLAQLLGTSEEDSVVDTIYD K,AMDLVQEEFLQR	
IPI00757312.1	Q3UH59	Myh10	Putative uncharacterized protein		DLSEELEALKTELEDTLDTTAAQQ ELR,TVGQLYK,VEDMAELTCLNE ASVLHNLK,ATISALEAK,ALELDP NLYR,EQADFAVEALAK,ADFCIIH YAGK,SLEAEILQLQEELASSER,N SLQEQEEEEEEARK,YLFVDR,KE EELQGALAR,FDQLLAEEK,TFHIF YQLLSGAGEHLK,ALEEALAEK,L QELEGAVK,KQQQLSALK,AGVLA HLEEEER,VNKDDIQK,LDPHLVLD QLR,LQQELDDLTVDLHQQR,ALE EALAEKEEFER,NTNPNFVR,VVS SVLQFGNISFK,KTTLQVDTLNTL AAER,ELQAQIAELQEDFESEK,TT LQVDTLNTELAAER,DAAGLESQ QDTQELLQEETR,IVFQEFR,LQN ELDNVSTLLEEAEEK,HATALEEL SEQLEQAK,ELDDATEANEGLSR, DKADFCIIHYAGK,DLEAQIEAANK ,KLDAQVQELHAK,TQLEEELEDEL QATEDAK,HGFEAASIKEER,EDQ SILCTGESGAGK,KHQQLLEEK,F VAELWK,LQQLFNHTMFILEQEEY QR,IGQLEEQLEQEAQ,KQELEEIL HDLESR,INFVDTGYIVGANIETYL LEK,LDAQVQELHAK,SDLLLEGF NNYR,VIQYLAHVASSHK,KFDQLL AEEK
IPI00129404.1	Q02566	Myh6	Myosin-6	ILNPAAIPEGQFIDSR,VQHELDEAEER ADIAESQVNKLR,KLEGLDK,IEDMAML TFLHEPAVLYNLK	

IPI00123181.4	Q8VDD5	Myh9	Myosin-9	<p>IAQLEEQLDNETK,QKHSQAVEELADQ LEQTK,ALELDSNLYR,TELEDTLDDSTA AQQELR,LQQELDDLLVDLDHQR,QAQ QERDELADEIANSSGK,SMEAEMIQLQ EELAAAER,ANLQIDQINTDLNLER,DL GEELEALK,DFSALESQQLDTELLQE ENR,VAEFTTNLMEEEEK,QLLQANPIL EAFGNAK,VSHLLGINVTDFTFR,HSQAV EELADQLEQTK,DMFQETMEAMR</p>	<p>TVGQLYK,VEDMAELTCLNEASVL HNLK,KANLQIDQINTDLNLER,NG FEPASLK,KVEAQLQELQVK,FDQ LLAEEK,VAAYDKLEK,DLEGLSQ R,ANLQIDQINTDLNLER,DFSALE SQLQDTQELLQEENR,FVSELWK, AGVLAHLEEEER,EQLEEEEEAKR, TDLLEPYNK,VISGVLQLGNIAFK, ALELDSNLYR,NWQWWR,KKVEA QLQELQVK,KGTGDCSDEEVDGK ADGADAK,GALALEEK,EQADFAI EALAK,EDQSILCTGESGAGK,IIGL DQVAGMSETALPGAFK,LQQLFN HTMFILEQEEYQR,ELETQISELQ EDLESER,EEILAQAK,NCAAYLR, RQLEEAEEEEAQR,FLSNGHVTIPG QQDK,LKDVLLQVEDER,KFDQLL AEEK,TELEDTLDDSTAQQELRSK ,DVLLQVEDER,RGDLPFVVTR,AS IAALEAK,TFHIFYLLSGAGEHLK, LQVELDSVTGLLSQSDDSK,LQQL DDLLVDLDHQR,ADFCIIHYAGK,A SREEILAQAK,VNKDDIQK,KQELE EICHLEAR,LDPHLVLDQLR,INF DVNGYIVGANIETYLLEK,VSHLLG INVTDFTFR,DVLLQVEDERR,IAQL EEEEEEEQNTELELINDR,LKDVLL QVEDERR,NTNPNFVR,LQLQEQL QAETELCAEAELR,NAEQFKDQ ADK,VVFQEFR,DKADFCIIHYAGK ,GDLPFVVTR,DLEAHIDTANK,IAQ LEEQLDNETK,LEVNLQAMK,NGF EPASLKKEEVGEEAIVELVENGKK, HSQAVEELADQLEQTKR,TQLEEL EDELQATEDAK,ITDVIIGFQACCR ,NFINNPLAQADWAAK,VEAQLQE LQVK,HEDELLAK,HSQAVEELAD QLEQTK,VIQYLAHVASSHK,KLEG DSTDLSAQIAELQAQIAELK,IREL ETQISELQEDLESER,DLGEELEA</p>	<p>VKPLLNSIR,KLQAQMK,LQVELDSV TGLLSQSDDSK,VEDMAELTCLNEAS VLHNLK,LQQELDDLLVDLDHQR,AN LQIDQINTDLNLER,DFSALESQQLD TQELLQEENR,LVLDQLR,GMFRTV GQLYK,AGVLAHLEEEER,LDPHLVLD QLR,VSHLLGINVTDFTFR,LEGDSTD LSDQIAELQAQIAELK,ALEEAMEQK, THEAQIQEMR,VISGVLQLGNIAFK,K VIQYLAHVASSHK,IAQLEEQLDNET K,ALELDSNLYR,PAGPPGILALLDEE CWFPK,NFINNPLAQADWAAK,IIGL DQVAGMSETALPGAFK,HEDELLAK ,QLLQANPILEAFGNAK,VIQYLAHVA SSHK</p>
IPI00118120.1	Q99104	Myo5a	Myosin-Va		<p>ILAGILHLGNVGFASR,VLSLQEEIAK ,ETLNHR,LATATETYIKPISK</p>	
IPI00229766.1	Q9QY06-2	Myo9b	Isoform 2 of Myosin-IXb	<p>KPSLEGVEETESNGGQAAQETPAR,F LDEFLLNK</p>		
IPI00111831.1	P70670	Naca	Nascent polypeptide-associated complex subunit alpha, muscle-specific form	<p>TTGGPAPVVRPAIAGVATTTSLR,IEDL SQAQALAAAEK,DIELVMSQANVSR,NI LFVITKPDVYK,SPASDTYIVFGEAK,VD PIMSDVTPTSPKK</p>	<p>IEDLSQAQALAAAEK,DIELVMSQ ANVSR,NILFVITKPDVYK,SPASD TYIVFGEAK</p>	<p>IEDLSQAQALAAAEK,SPASDTYIVF GEAK</p>

IPI00114925.1	Q99J77	Nans	Putative uncharacterized protein	GSDHSASLEPGELAE LVR,IPAGTTLTLDMLTVK,ELQSYAQEIGIFFTASGMDEMAVEFLHELNVPPFK,LFPDIPIGYSGHETGIAISVAVALGAK,VLVTIEEDDTVMEESVESHK,PMVISSGMQSM DTMK		
IPI00123199.1	P28656	Nap111	Nucleosome assembly protein 1-like 1		FYEEVHDLER,LDGLVDTPTGYIE SLPK,FEIINAIYEPT EEECEWKPD FYEEVHDLER,LDGLVDTPTGYIESL EEDEVSEELKEK,NVDLLSDMVQ PK,QLTVQMMQNPQILAALQER,NV EHDEPILK,FSDAGQPMSFVLEFH DLLSDMVQEHEDEPILK,YAVLYQPLF FEPNDYFTNEVLTK,GIPEFWLTV DK,GIPEFWLTVFK FK	
IPI00881096.1		Napg	39 kDa protein	LPEAVQLIEK,LGLSLVPPGGGIK	EAVAHENNR,LGLSLVPPGGGIK	
IPI00387212.1	Q80UM3	Narg1	NMDA receptor-regulated protein 1	DLSLLQIQMR,WMDEAQA LDTADR	DLSLLQIQMR,FLLMLQSVK,SHVC WHVYGLLQR,AIELATTLDGSLTN R,GELLLQLCR,RLPLNFLSGEK,T QQTSPDKVDY EYSELLYQNQVL LFHSVCESK,MPAVSLPPK,RLPLNF R,VAIVEELVVG YETSLK,LEDAAD LSGEK,LHDNPLTDENK VYR,YQLLQLRPAQR,IGQPSIALE YINTAIESTPTLIELFLVK,LAVEET KGELLLQLCR	
IPI00223415.4	Q8BP47	Nars	Asparaginyl-tRNA synthetase, cytoplasmic		ISALEGYR,LEDLVCDV VDR,SPVA GYCEVTTPTLVQTQVEGGATLFK,E SIVYELNPNFKPPK,NLMFLVLR PFPTIYVDSQK	
IPI00830976.1	B1AU75	Nasp	nuclear autoantigenic sperm protein isoform 2	MENGLGNALEGVHVEEEEGEK,PTD GASSNCVTDISHLVRK,EAAIPGLNED EVASGK,SADVGG EEPKDQVATSESE LGK,EIEELKELLPEIR,AELVPEQEEAM LPVEESEAGDGVETK,HLVMDIPAA VNAFQEAASLLGK,EGEETEGSEED RENDKAEETPNESVLEK,I EDAPAPST SADKMESLDVDSEAK,ATLVESSTSGF TSPGAGASVSMI ASR,EFRETVEEGEE IISLEK,EVSENMEAEAENQAESQTAE GTVESAAATIK,ETVEEGEEIISLEK,TED ESLVENNDNVDEEAR,VVEIEA EIDPQVK	SLTKPETDKEQESEVEK,SIDVIEK ,PETDKEQESEVEK,EAAIPGLNE DEVASGK,SADVGG EEPKDQVAT SESELGK,LQETVEPTSK,S LLELAR,AKQEPEVNGGSGDAVSSGK,G KLLGLGQK,I EDAPAPSTSADK,LQE GREDMDISEPEEK,SISGAYVQNK TVEPTSK,S LLELAR,SISGAYVQNK, ,LGEVSVESENYIQAVEEFQA CLS ELLPEIR,LGEVSVESENYIQAVEEF LQEYLEAHDR,YGETANECGEA QA CLSLQEYLEAHDR,SGNVAELA LK,HLVMDIPAAVNAFQEAASLLG FFFYGK,HLVMDIPAAVNAFQEA K,IAANEETQER,EIEELK,VVEIEAEI QYDEAVAQFGK,SLQENEEEEEIG DPQVK,KPTDGASSNCVTDISHLV NLELAWDMLDLAK,ATLVESSTSG R FTPSGAGASVSMI ASR,EAQLYAA QAHLK,ETVEEGEEIISLEK,VVEIE AEIDPQVK,KPTDGASSNCVTDI SHLVR	
IPI00276866.1	Q8K224	Nat10	N-acetyltransferase 10		LGQAELVVIDEAAA IPLPLVK,TLH EVSLQESIR,SLFVVVGDR,LDYLG VSYGLTPR,LYFLNQLGDLSLSAA QSALLGIGLQHK	QSSAQSQVSTTAENK,NMVDYHLIM DLIPAISR,ILGNTFGM CVLQDFEALTNLLAR
IPI00400163.3	Q6PGB6-4	Nat13	Isoform 4 of N-acetyltransferase NAT13		RIEPADAHVLQK,FGFEI IETK	

IPI00172226.3	Q8K2Z4-2	Ncapd2	Isoform 2 of Condensin complex subunit 1		LPQEEGDHQIADAETAEEVK,ITE AIGIISK,GKPEIVGSNLDALVR,NAI QLLASFLANNPFSCCK,RMLPLIWS K,ELLDGNQVLAAFVPLLLK,FQAV VALAVGR,NAVLAIAEMVLQVLN GDQLEESAR	HLSSQLR,LQPLTSVDSNDNFVTPK, NAIQLLASFLANNPFSCCK,NATEADP K,ELLDGNQVLAAFVPLLLK,SAHLN ALK,GQVSEMAVLLIDPVPQIAALAK
IPI00122202.5		Ncapg	non-SMC condensin I complex, subunit G		DLLLLLDEILEHVTDRL,LLSDFLDS EVSELR,IQIVTEIIEIR,IQAVLALS R	
IPI00317794.5	P09405	Ncl	Nucleolin	FGYVDFESAEDLEK,GYAFIEFASFEDA K,FAISELFAK,VEGSEPTTFFNLFIGNL NPNK,GFGFVDFNSEEDAK,TLVLSNL SYSATK	NLSFNITEDELKEVFEDAMEIR,ET LEEVFEK,FGYVDFESAEDLEK,N DLAVVDVR,GYAFIEFASFEDAK,E VFEDAMEIR,ALELTGLK,VFGNEI K,KAAVTPGK,NLSFNITEDELK,TL VLSNLSYSATK,GFGFVDFNSEED AK,GLSEDTTEETLK,VTLDWAKP K,TSTWSGESK,EALNSCNK,SVS LYYTGEK,FAISELFAK,KFGYVDF ESAEDLEK,GLSEDTTEETLKESF EGSVR,VEGSEPTTFFNLFIGNLN PNK,LELQGSNSR,GIAYIEFK,SEA DAEKNLEEK	FGYVDFESAEDLEK,ETLEEVFEK,N DLAVVDVR,ESFEGSVR,ALELTGLK ,VFGNEIK,NLSFNITEDELK,QGAEID GR,TLVLSNLSYSATK,GLSEDTTEE TLK,VTLDWAKPK,TSTWSGESK,VT LDWAK,SVSLYYTGEK,FAISELFAK, VEGSEPTTFFNLFIGNLNPNK,KAVA TPAK,LELQGSNSR
IPI00113730.3	Q05BA5	Ncoa3	nuclear receptor coactivator 3	ALLDQLHTLLSNTDATGLEEIDR,MGP SQNAMVQHPQPTPMYQPSDMK,AML EEGEDLQCCMICVAR		
IPI00274795.4	Q5RIM6	Ncor1	Nuclear receptor co-repressor 1, isoform CRA_a	VEDHGVVMShpVgimpGSASTSVVTS SEAR,SSHIEVSQASQLLQQQQQQQ LR,GKPYDGITTIKEMGR		
IPI00553262.1	P03921	ND5	NADH-ubiquinone oxidoreductase chain 5		ANPYSSFSTLLGFFPSIIHR,TSLTL LDLIWLEK	
IPI00112460.1	Q9CZA6	Nde1	Isoform 1 of Nuclear distribution protein nudE homolog 1	LEFGKPASEPASPALPSAQGVVK,TFE SEEEETNYWR,PASEPASPALPSAQG VVK,TDMAVQATGSPSTPVAHR,ISAL NIVGDLLR		
IPI00131850.3	Q9CPR8	Ndn12	Melanoma-associated antigen G1	VAELVQFLLIK,SHSYILINMLEPVEADA EMR		
IPI00315302.5	Q9CQ75	Ndufa2	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 2		AMQNVLSGK,DFIVQR,TVSLNNL SADEVTR,AHPNLPILIR,KAHPNL PILIR	
IPI00132216.1	Q9CQ91	Ndufa3	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 3		ATPYNYVPVVR,YASMINK	
IPI00125929.2	Q62425	Ndufa4	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 4		FYSVNVVDSK,NNPEPWNK,LALF NPDVSWDR,LGPNEQYK,KNNPE PWNK	

IPI00308882.4	Q91VD9	Ndufs1	NADH-ubiquinone oxidoreductase 75 kDa subunit, mitochondrial		SNYLLNTTIAGVEEADVLLVGTN PR,GLLTYTSWEDALSR,NRLEE VSPNLVR,YDDIEETNYFQQASELA K,VTTGVAAEWK,VAGMLQNFEG NAVAAIAGGLVDAEALVALK,ALS EIAGITLPYDTLDQVR,YDHLGDS PK,ILQDIASGR,IASQVAALDLGYK PGVEAIR,MLFLLGADGGCITR,VA VTPPGLAR,LVNQEVLDPLVPPQ LTIK
IPI00128345.2	P52503	Ndufs6	NADH dehydrogenase [ubiquinone] iron-sulfur protein 6, mitochondrial		IIACDGGGGALGHPK,ITHTGQVY DEK,EVNENFAIDLIAQQPVNEVE HR
IPI00462445.2	P46935	Nedd4	E3 ubiquitin-protein ligase NEDD4	ILFEVFDENR,RPSPDDDLTDEDNDDM QLQAQR,WNEEILFR	VIAGIGLAK,EGFFELIPQDLIK RIMGVKR,DDFLGQVDVPLYPLPTE NPR,EGFFELIPQDLIK,VTLYDPMMSG ILTSVQTK,LAVCGNPATSQPVTSSN HSSR,TGGSEIVVTNK,LITLHDMES VDSEYYSSLR,LLQFVTGTSR,GGSL QTCIFEEQPTLPVLLPTSSGLPPGW EEK,VFFINHNIK
IPI00127021.1	P29595	Nedd8	NEDD8		ILGGSVLHLVLALR,EGIPPQQQR, EIEIDIEPTDK
IPI00132005.1	Q9CQ45	Nenf	Neudesin	YGGEEEDQPIYLAVK,MSLDPADLTHD TTGLTAK	
IPI00453692.4	Q6P5H2	Nes	Isoform 1 of Nestin	QGLQSQIAQILEGGQQLAHLK,ENQEP LRFEEAEDQVLER	
IPI00123537.3	B1AY10	Nfx1	Isoform 1 of Transcriptional repressor NF-X1	IIHDLAQVYGLESISYDSEPK,LAEAFDI TDDSDPFNVR	
IPI00119201.1	Q9DB96	Ngdn	Neuroguidin	TAVTGSLSENDPLR,VNYEESMMVRL SVSK,VNYEESMMVR	
IPI00310568.2		Ngrn	neugrin	AGSDTLPSAVLLEELKPGEPGDQSFS SK,TLTWEAMEQIR,IQVLEESLVPATT ALGHQR	
IPI00133555.4	Q9CXX8	Nip7	60S ribosome subunit biogenesis protein NIP7 homolog		VDPMAIVVFHQADIGEYVR,LAANIS GDK,LVSLGTCTFGK,VWVKPGAEQS FLYGNHVLK
IPI00421052.1	Q6KCD5	Nipbl	Isoform 1 of Nipped-B-like protein	SADACLTTINIMTSPNMPK,DKVEKMG LVEDLNK,DDNLVSQLVHSLNQVSTDH IELK	
IPI00119945.1	Q9JHW2	Nit2	Nitrilase homolog 2	AGTEETILYSIDILK,LALIQLQVSSIK	
IPI00228608.1	Q8CCN1	Nlrp10	NACHT, LRR and PYD domains-containing protein 10		AECVLHILMRR,EVPCSLITRPPAL QSLEPMLGERR
IPI00881976.1	Q99L48	Nmd3	Isoform 1 of 60S ribosomal export protein NMD3	TFYYLEQLILKYGMHQNTLR,DATIPVE SDTDDEGAPR	

IPI00127417.1	Q01768	Nme2	Nucleoside diphosphate kinase B	VMLGETNPADSKPGTIR,YMNSGPVV AMVWEGLNVVK,EIHLWFKPEELIDYK	GDFCIQVGR,GLVGEIHK,VMLGE TNPADSKPGTIR,GLVGEIHK,YMN SGPVVAMVWEGLNVVK,NIIHGS DSVESAEK,DRPFFPGLVK,TFIAI KPDGVQR,EIHLWFKPEELIDYK	GDFCIQVGR,VMLGETNPADSKPGT IR,GLVGEIHK,YMNSGPVVAMVWEG LNVVK,NIIHGSDSVESAEK,DRPFFP GLVK,TFIAIKPDGVQR,EIHLWFKPE ELIDYK
IPI00224128.7	O70310	Nmt1	Glycylpeptide N- tetradecanoyltransferase 1	RVHLEGIFQAVYTAGVVLPK,VHLEGIF QAVYTAGVVLPK,FGIGDGNLQYYLYN WK,GFDVFNALDLMENK,LVGFISAIPA NIHIYDTEK,YQFWDTPVPK,AAYSFY NVHTQTPLLDLMSDALVLAK,SYQFWD TQPVPK,LGEVVNTHGPVEPKDNIR	AIELFSVGQGPAK,AAYSFYNVHT QTPLLDLMSDALVLAK,LGEVVNT HGPVEPKDNIR,MVEINFLCVHK	
IPI00117252.1	O70311	Nmt2	Glycylpeptide N- tetradecanoyltransferase 2	LVGFISAIPANIR,GFDVFNALDLMENK, YQFWDTPVPK,EHIIDTFVVENPSGK		
IPI00125382.2	Q9WV70	Noc2l	Nucleolar complex protein 2 homolog		LFHEVVQAFR,VLSTLGSSEILQPL LYPLSQIIIGCIK	LLLSSSPLWGK,VLSTLGSSEILQP LLYPLSQIIIGCIK,KNPVPVTLAMV ER,PINFVILK
IPI00330054.1	Q8BHY2	Noc4l	Nucleolar complex protein 4 homolog		LALTAPPEALLMVLPLICNLLR,AA SVINQVLSVPEVSIAPLLELTAYEI FEQDLK	
IPI00153791.2	Q8BJW5	Nol11	Isoform 1 of Nucleolar protein 11			PADTAHEPGSFVPTSCPVAPKR,KV ETNLQPEVPGFK,ELPQGTSGQLW YHGEVLFMLHGK,HIEVELR,AALLN AVLHSAYSEPFLPHLK
IPI00307884.1	Q8BG17	Nol12	Nucleolar protein 12	TESVQYDHPNHTVTVTISDLDSGAR ,EEALEEAELEL,LLGLPLPEQGDQD GSQEEEMSLEKPTK		
IPI00353796.4	Q8R5K4	Nol6	Isoform 1 of Nucleolar protein 6		SSVWTQDGPSAQILQQLVSLAAE ALPILEK,LLWGLEGLPLTVSAVQ GAHPVLR,LAEVLQEH	MGPAPAGEQHRR,LLPLLSALHGL QQQPAYSGVAR,LLWGLEGLPLTV SAVQGAHPVLR
IPI00318561.1	Q9D7Z3	Nol7	Isoform 1 of Nucleolar protein 7			LLPDAVLEQLTTASEADIK,VQLRPR
IPI00720058.4		Nolc1	nucleolar and coiled-body phosphoprotein 1 isoform C		QPAGSNQKPQSR,GGSSISVQVNS VK,VREEIEVDSR	AAGGAVSTPAPGK,AQGLPTQK,AA GGAVSTPAPGK,VVPSDLYPLVLR, KAAGGAVSTPAPGK,AGPYSSVPPP SVPLPK
IPI00222429.6	Q6GQT9	Nomo1	nodal modulator 1		AGLFLEGQIHPELEGVEIVISEK,S ESLDNPIQTVSLGQSLFFHFPLL R,VIEVGNNDDVDDVNIIVFR	

IPI00320016.7	Q99K48	Nono	Isoform 1 of Non-POU domain-containing octamer-binding protein	GAMPPAPVPPGTPAPPGPATMMPDG TLGLTPPTTER,PVTVEPMDQLDDEEG LPEK,NLPQYVSNELLEAFSVFGQVE R,FGQAATMEGIGAIGGTPPAFNRPA GAEFAPNK,TLAEIAK,EKLEMEMEAAR ,FAQPGSFYEYAMR,FGQAATMEGIG AIGGTPPAFNRPAEAFAPNKR,GIV EFSGK,AVVIVDDR,LFVGNLPPDITEE EMR,FGQAATMEGIGAIGGTPPAFNR, AGEVFIHK,RMEELHNQEVQK,AFNLE K	RMEELHNQEVQK,NLPQYVSNEL LEAFSVFGQVER,FACHSASLTV R,AVVIVDDR	AGEVFIHK,GAMPPAPVPPGTPAPP GPATMMPDGTGLGLTPPTTER,NLPQ YVSNELLEAFSVFGQVER,FACHS ASLTVR,FAQPGSFYEYAMR
IPI00458704.2	Q9CPT5	Nop16	Nucleolar protein 16	KPYVVNDLEAEASLPEK,YMVENHGE DYK,QNLAEMGLAMPNK,NYYQDTP K,AMEVDTEERPR,KPYVVNDLEAEAS LPEKK,FYPTWQAFIDSLQSK		
IPI00311453.5		Nop2	nucleolar protein 1	ILDMCAPGGKTSYIAQLMK,FSNSIPQ PHAGNSAAATPTEPDLK,GPLSTEPS VPDAQVSTRPSQSAGNADVNSK,ELLL SAIDSVNAASK	VLLDAPCSGTGVISK,LMELFPLS ELIEFLEANEVPRPITLR,LGVTNTI ISHYDGR	SVVGNLHR,IQDIVGVLR,VLLDAPC SGTGVISK,LVPTGLDFGQEGFTR,L GVTNTIISHYDGR,LMELFPLSELIEF LEANEVPR,AGSVDVCPKNK
IPI00318048.5	Q9D6Z1	Nop56	Nucleolar protein 56	EAVVQAEAAAAEITR,LSFYETGEIPR,E ELASDLEEMATSSAK	EAVVQAEAAAAEITR,KRLAALAL ASSENSSTPEECEEVNEK,LLEET YLPSKK,YGLIFHSTFIGR,LAQFIG NR,IGAAIQEELGYNCQTGGVIAEI LR,VLLGVGDPK,VDNMIIQSISLLD QLDKDINTFSMR,LLLETYLPSK,Y PASTVQILGAEK,LIAHAGSLTNLA K,VVSLSEYR	EAVVQAEAAAAEITR,MSQVAPSL ALIGEAVGAR,FHNVVR,IDCFSEVP TSVFGEK,IVNDNATYCR,LSFYETG EIPR,YPASTVQILGAEK,LLLETYLP SK,VVSLSEYR,LIAHAGSLTNLAK,V DNMIIQSISLLDQLDK
IPI00463468.3	Q6DFW4	Nop58	Nucleolar protein 58	YDAFGEDSSSAMGIENR,YGLIYHASL VGQSSPK,SQMDGLIPGVEPR	LIAHAGSLLNLAK,HAASTVQILGA EK,IISDNLYCK,FQDTAEALAAFT ALMEGK,EAHEPLAVADAK,YGLIY HASLVGQSSPK,KIEEVDKEDEIT EK	TQLYEYLQNR,LIAHAGSLLNLAK,H AASTVQILGAEK,EAHEPLAVADAK, LQEVDSLWK,FQDTAEALAAFTALM EGK,TYDPSGDSTLPTCSK,VDTMIV QAISLLDDLDK,YGLIYHASLVGQSS PK
IPI00130000.1	Q11011	Npepps	Puromycin-sensitive aminopeptidase		FALEVAAK,VTLSPSTLQTGTGT LK,VLTFALSEEVRPQDTVSVIGG VAGGSK,LEAAAQVR,QADMQEE KNRIER,AGIISTVEVLK,LPAEVSP INYSCLCPDLLDFTFEGK	PGEGLDALLR,VTLSPSTLQTGT GTLK,LEAAAQVR,LGLQNDLFLSLAR ,PIAAVMNTWTK,LPAEVSPINYSCL KPDLLDFTFEGK,VLGATLSPELIQK

IPI00127415.1	Q61937	Npm1	Nucleophosmin		MQASIEK,DELHIVEAEAMNYEGS PIK,TVSLGAGAK,TVSLGAGAKDE LHIVEAEAMNYEGSPIK,MTDQEAI QDLWQWR,MSVQPTVSLGGFEIT PPVVL R,MSVQPTVSLGGFEITPPV KDYHFK,TPKGPSSVEDIKAK,GP SSVEDIK,FINYVK,VDNDENEHQLSLR
IPI00553335.1	Q8VCQ3	Nrbf2	Nuclear receptor-binding factor 2	LPEVQGVFDRDPDTLLFLLQQK,SELW GLPSHSESAAASSTWQK,DPDTLLFLL QQK	
IPI00648408.1	A2A9Q2	Nrd1	Nardilysin, N-arginine dibasic convertase, NRD convertase 1		EMPVQFQVVELPSGHHLCK,QDFLT GDQLLFEYKPEVIAEALNQLVPQK,Y QALMDGLSLDSSLNFVK
IPI00131111.2		Nsd1	nuclear receptor-binding SET-domain protein 1	VGLFALSDIK,HRPAVMDLIDLTPR,IA NSLTGSSTAPGSFLFSSSVQNTAK,GG LANQTLPLK,LLESNDLDPGFMPK,IP DNLGLDFISGGVSDK,PEDSAADPNHG SHSESVAPR,PLLFSSASSQNHIEPD YK,VQIFTADLSEIPR	
IPI00656325.2	P46460	Nsf	Vesicle-fusing ATPase		YVGESEANIR,IDGVEQLNNILVIG MTNRPDLIDEALLRPGR,AENSSL NLIGK,LGANSGLHIIIFDEIDAICK, TPLVSVLLEGPPHSGK,KAPPQGR LVQQT,LLIIGTTSR,LQILHIHTAR
IPI00387232.1	Q9CZ44-3	Nsf1c	Isoform 3 of NSFL1 cofactor p47	SPNELVDDLDFK,LGSTAPQVLNTSSPA QQAENEAK,EFVAVTGTEEDR,KSPNE LVDDLDFK,SYQDPSNAQFLESIRR,TGF SLDNGDLR,ASSILINEAEPTTNIQIR,P AMAATSFVLMTTFPNK,LGAAPEEESA YVAGER,SYQDPSNAQFLESIR,DLIHD QDEEEEEEGQR,EANLLNAVIVQR,L AHGGQVNLDMEDHRDEDFVKPK	LGAAPPEESAYVAGER,RGEVPA ELR ASSILINEAEPTTNIQIR,HSGQDVH VVLK,RGEVPAELR
IPI00133614.5	Q91VT1	Nsmce2	Isoform 1 of E3 SUMO-protein ligase NSE2	YISFSGIESALSSLK,ELSHYVKAVQSTI NHVK	
IPI00228804.5		Nsun2	88 kDa protein	WTTLNSLQLHGLQLR,QEAVSMIPPLL LNVEPHHK,FYALDPSFPR,TLLTQENP FFR,SEGALELADVSAELPGLK,FHQFL VSETESGNISR,EGVILTNAASPEQP GDEDAK,VEVPQPLSWYPEELAWHTN LSR,QTAQDPCVPDVPDCAAAAEP SR,EDPFVFIPEDDPLFPPIEK,LAQEGI YTLYPFINSR,YEPDSANPDTLQCPIVL CGWR,TTQLIEMLHADMSVPFPEGFVI ANDVDNKR,DGQWFADWHEVPQGR	GAEQLAEGGR,IITVSMEDVK,ILP HHQNTGGFFVAVLVK,FHQFLVS ETESGNISR WTTLNSLQLHGLQLR,GAEQLAEG GR,TLLTQENPFFR,EDPFVFIPEDD PLFPPIEK,LSSEAYSQVK,SEGALEL ADVSAELPGLK

IPI00132314.1	Q02819	Nucb1	Nucleobindin-1	YLQEVINVLETDGHFR,KVPEQPPELP QLDSQHL,LSQELDFVSHNVR,QQLQE QSAPPSKPDGQLQFR,EVWEELDGLD PNR,DLELLIQTATR,TVEMSPAYTEEE LKRFEELAAR,LVTLEEFLLASTQR		
IPI00309704.1	P81117	Nucb2	Nucleobindin-2	LVTLEEFLLR,LHDVNNDGFLDEQELEA LFTR		
IPI00132942.1	O35685	Nudc	Nuclear migration protein nudC	KTDFFIGGEEGMAEK,VGLKGQPPVW DGELYNEVK,LITQTFNHHNQLAQK,W TQTLAELDLAVPFR,VESSWLIEDGK, GQPPVVDGELYNEVK,LKPNLNGAD LPNYR,TDFFIGGEEGMAEK,LQLEIDQ K,FMDQHPPEMDFSK	KDAEDQEAQLK,LITQTFNHHNQL AQK,DVVVDIQR,GKDVVVDIQR,G LITQTFNHHNQLAQK,GQPPVVDGE QPPVVDGELYNEVK,LVTSDEPEIN LYNEVK,LVTSDEPEINTK,VVTVHLEK TK,LKPNLNGADLPNYR,LQLEIDQ ,LKPNLNGADLPNYR,LQLEIDQK QK,ELTDEEAER	
IPI00461281.2	Q9CQ48	Nudcd2	NudC domain-containing protein 2	ENPGDFDFSGAEISGNVTK,LFDSTIADE GTWTLEDR		
IPI00132473.3	Q9CQF3	Nudt21	Cleavage and polyadenylation specificity factor subunit 5		TVEGVLIVHEHR,TINLYPLTNYTF GTK,LFLVQLQEK,LPHVLLLQLGT PNFEPPQYPYIPAHITKPK,LVAAPLF TFFK,RTVEGVLIVHEHR,LVAAPL ELYDNAPGYGPIISSLPQLLSR FELYDNAPGYGPIISSLPQLLSR	
IPI00123572.1	Q9JKX6	Nudt5	ADP-sugar pyrophosphatase	PKPGDGEFMEVISLPK,HANSKPFEVP FLKF,PFEVPFLK,PGDGEFMEVISLPK, LDALGAEQHLLTVDAK		
IPI00405390.1	Q8BVU5	Nudt9	ADP-ribose pyrophosphatase, mitochondrial	WVDISDQLK,LHALFSQEHLVIYK		
IPI00330146.6	Q5F2E7	Nufip2	Isoform 1 of Nuclear fragile X mental retardation-interacting protein 2	DYEIENQNPLASPTNTLLGSAK,IITYNE AMDSPDQ,SGETQAVDKTDIAIPNGVI TSSSGYITNGYMSK,NSAKGCENLNLV QDK,VMEVTFQGEYPATLVSQGAIEIP SGTEHPVFPK,EDSWTLFKPPPVPVVD NSSAK,ADTSSQGALVFLSK		
IPI00263048.1	Q80Y35	Numa1	Nuclear mitotic apparatus protein 1	VEFAALQEALAHALTEK,EAEQMGGEL ERLRAALIK,SSLISLEEEVSILNR	LATDNTQLQTR,IQQLLEEAHQAE EALR,ELGELGSLR,TGQEVQEEA VEIHSEGQPGQQSQAQLHASL AK,LVDDLSALQEK,SLEAQVAHA DQQLR,ELGHNQAASASAQR,LS QLEDQATR,LTAQVEELSK,VTEL EAQLK,IDHLALLNEK,LKEQQLLE AAK,EKEHPAGGASGEDASGPGT QSETAGK,AQLQEQLR	LATDNTQLQTR,EQALSALQLEHTS TQALVSELLPAK,HLTAQVR,HELAE ATASQHR,LQNTLNEQR,ELGHNQA ASASAQR,VSSETHQGGPGTPESK,A GEQQETASLELLK,RTTQIINITMTKK ,QQLASLIADLQSSVSNLSQAK
IPI00320303.1	Q8R0G9	Nup133	Nuclear pore complex protein Nup133		GLSLGSAVNSPVLFPAGR,LPDLV NSAILLALNKR,QLSLSAMPVLTAPQ LISLYICDENRR,DGIQLSEYLPVTD LLR,FLTAVQGGSFILSSVGSQVLR	

IPI00330624.1	Q80WR0	Nup153	Nucleoporin 153	TEFSGSNSSETVLSSSAQDITAVNSS SYK,SSPAGFSFGAGVNNPPNAAIDTT ATSENK,FGIPSSSSGLSQTLTSTGNF K,ITPDPAGSNTEEPSTTSTASNYPDVL TR,TVYFKPSLTPSGDLR,VQMTSLGST GSPVTFSSPIVK,NTSLPPLWSPEAE R,PAISTFSSSGIEYGESLK,GFGTSSSL NPAPSAFK,IPSAVSSPLNSPLDR,KPA FNLSAFGTLSTSLGNSSILK	SHSLSQHTAISSK,PQHQGILSR,MA SEAGGIGGGGGGGK
IPI00453821.2	Q99P88	Nup155	Nuclear pore complex protein Nup155	LLCEHQFSVIVGELQK,FYEGVVE LSLTAAEK,PNTLTLVHVR,LRPVD QLR,EITAISSVPVQLLESVLQEL K	ISLQAIQQLVR,EITAISSVPVQLLE SVLQELK,LHQEDQACATCLILACST AACDR
IPI00129535.1	Q9Z0W3	Nup160	Isoform 1 of Nuclear pore complex protein Nup160		LPPYDVPGIASVELK,LLDVVGLPE LVIQLATSAITEAGDDWK,FYACVLQ YQEALSHPLALHLPVTNMVCLLK, VQNNLYHHCVINK
IPI00420602.3	Q6ZQH8	Nup188	Nucleoporin NUP188 homolog	ASPESQEPLIQLVQAFVR,ILGPLT EILEGVLQADQQLMEK,RDSAML VLR,AAIAFLHALWQDR	
IPI00677736.2	Q9D6C1	Nup205	Putative uncharacterized protein	LAWALALR,DDTLILLIGHLER,VL LLSQIDVNNEFEK	
IPI00229722.3	Q80U93	Nup214	Nuclear pore complex protein Nup214	PTASGPLSHPTPLPASSSSMPLK,FAV QDVNDVLDLEWDR,SDSSEVSATTPS LPVQPQSTQASLQTSDPVKK,PTCTSV AQPLEGEDAQPICK	
IPI00177202.1	P59235	Nup43	Nucleoporin Nup43	HPDQQHVATGGQDGMLSIWDVR,IEI TSLPSR,TPEIVTVNSIGLQK,TIDNAD SSTLHAVTFLR	SSLFHQGGR,IEITSLPSR
IPI00120572.3	Q9JIH2	Nup50	Nucleoporin 50 kDa	GLVWPSGGGGFSGFGSGGK,PLEGL TNGNSTDNATPFSNVK,AAFSGFAVN GPTTLVDK,AAFSGFAVNGPTTLVDKK, VVVTEVKEEDAFYSK,ATAGMEPPSLF GSTK,AEDTSEKVEFTA EK,KIESSALG SLSSGSLTGFSFSAGSSSLFGK,SDAA QGATSASFSGK	
IPI00225192.1	Q8BTS4	Nup54	Nucleoporin p54	QQQEGLSHLISIIKDDLEDIK,TLPDDQT EVVIYVVER,VLGGNQLTVNVEGIK,V QLDTIQGELNAPTQFK	
IPI00139994.1	Q63850	Nup62	Nuclear pore glycoprotein p62	RLDQELDFILSQQK,ELEDLLSPLEESV K,ILNAHMDSLQWVDQSSALLQR	
IPI00461532.4	Q8R480	Nup85	Nucleoporin NUP85	KLFNESHGIFVGLQK,RFGDAASL LLSLMTSQIAPR	
IPI00229021.1	Q8CEC0	Nup88	Isoform 1 of Nuclear pore complex protein Nup88		SAANPAFLK,LLCINPPLFEIHQVLLS PTQHVALIGSK

IPI00222307.1	Q8BJ71	Nup93	Isoform 1 of Nuclear pore complex protein Nup93	EALQYFYFLR,NYTLVTVFGNLHQ AQLGGVPGTYQLVR	HNLSEVLLATMNILFTQFKR,LESLS AATTFEPLPEVK	
IPI00464141.2	Q6PFD9	Nup98	Nucleoporin 98	FSFLSKPVDENNQQDGEDDSLVSRS, HLFDGLDDDEPSLANGAFMPK,NLNN SNLFSPVNHDESLASPSEYPENGER, KAEVTLDGVWPTDK,NNSSSNVEDTIV ALNMR,AEVTLDGVWPTDK,EEIENNA YHIHPAGIVLTK,VGYTYTIPSMDDLAK,N GLEGSSEETSFHDESLQDDR,EVIVYV DDNQKPPVGEGLNR		
IPI00224693.2	Q9ERH4	Nusap1	Isoform 1 of Nucleolar and spindle-associated protein 1	DTAEVPSLPEQRPEDGNAASSGEGEV NDIK,MESIDEYIMR		
IPI00321884.1	Q9DBY8	Nvl	Nuclear valosin-containing protein-like		LPETFNFCHLAHLTPGFVGDLMAL CR,TLGLGTPAGILLAGPPGCGK,QD SEIQILK	
IPI00115588.3	Q99JX7	Nxf1	Nuclear RNA export factor 1	SDPDLVAQNIDVVLNR,LNVVAFLNELP K,IIENIPELLSLNLSSNR	LNVVAFLNELPK,ISIIINASAPPYT VQNELKPEQIEQLK	
IPI00133608.3	Q9CRD0	Ociad1	Isoform 1 of OCIA domain-containing protein 1		SVPLAATSMILITQGLISK,GILSSHPK	
IPI00845652.1	Q60597-3	Ogdh	Isoform 3 of 2-oxoglutarate dehydrogenase E1 component, mitochondrial	VASSVPVENFTIHGGLSR,KPLIVF TPK,LNVLANVIR,FGLEGCEVLIPA LK,DVVVDLVCYR,VFHLPTTTFIG GQEPALPLR,KTHLTELR,IEQLS PFPFDLLK,LVEDHLAVQSLIR,G HHVAQLDPLGILDADLDSSVPADII SSTDK,THLTELR,SSPYPTDVA R	KPLIVFTPK,HHVLHDQNVDK,NITLS LVANPSHLEAADPVVMGK,QNGIVL LLPHGMEGMGPEHSSARPER	
IPI00342603.7		Ogdhl	oxoglutarate dehydrogenase-like		LPTTTFIGGPENTLSLR,KPLIVFT K,LEAADEGSGDVK,LNVLANVIR, DVVVDLVCYR,LVEDHLAVQSLIR, SSPYPTDVAR	
IPI00111981.1	Q9CZ30	Ola1	Isoform 1 of Olg-like ATPase 1	AFEDDDITHVEGSVDPIR,DIEIHEELQ LKDEEMIGPILDK,DIEIHEELQLK,HLF LTSKPMVYLVNLSEK,IPAFLNVVDIAG LVK,YRQQGRNYIVEDGDIIFFK,NYIVE DGDIIFFK,FYHDWNDKEIEVLNK	IGIVGLPNVGK,VPVDER,IPAFLN VVDIAGLVK	IGIVGLPNVGK,HLFLTsk,IPAFLNV DIAGLVK
IPI00380674.1	Q7TS44	Olf192	Olfactory receptor Olf192		KSVQGMKK,KSVQGMK	
IPI00881883.2		Olf192	olfactory receptor 286		LVCSSWIFGMVNGILLDYMTFR,DK PFSLLYTIITPMCNPIYSFR,VIFMD AIVLLSPMVLIVTSYAR	
IPI00403336.4	P58281-2	Opa1	Isoform 2 of Dynamin-like 120 kDa protein, mitochondrial		VIQHNALEDR,VQLAEDLK,AKNEI LDEVISLSQVTPK	
IPI00165817.3	Q3U473	ORF19	Putative uncharacterized protein	ATSQGGDLMSDLFNK,YVFLDPLAGAV TK		
IPI00845721.1	Q8R1N3	OTTMUSG0000001 0657	Predicted	GHQRIHTGEIAYK,VLDQDSQYIVHEH MNIQEK		

IPI00169908.4	A2AP24	Otud6b	OTU domain containing 6B	IDSVAVNISNLVLENQPPR,IAEAEIENL SGAR	
IPI00223738.2	Q6P9R2	Oxsr1	Serine/threonine-protein kinase OSR1	LLSGGSVLDIIK,SGVLDEPTIATILR	RVPGSSGRLHK,KMISLCLQK,IPISL VLR
IPI00122815.3	Q922C8	P4hb	Putative uncharacterized protein		VGADALEEEDNVLVLK,TGPAATT LSDTAAAEESLVDSSSEVTIGFFK,I LEFFGLK,MDSTANEVEAVK,ILFIF IDSDHTDNQR,YKPESDELTAEK,L ITLEEEMTK,VDATEESDLAQQYG VR,VLVGANFEEVAFDEK,THILLF LPK
IPI00119305.3	P50580	Pa2g4	Proliferation-associated protein 2G4	ITSGPFEPDLYK,FTVLLMPNGPMR,IDL GVHVDGFIANVAHTFVIGVAQGTQVT GR,GIAFPTSISVNNCVCHFSPK,LVK PGNQNTQVTEAWNK,ITSGPFEPDLYK SEMEVQDAELK,HELLQPFNVLYEK,A EFEVHEVYAVDVLVSSGEGK,TVENAT SGETLEENGAGD	AFFSEVER,ALLQSSASR,AAHLC AEAALR,ITSGPFEPDLYK,SEMEV QDAELK,IDLGVHVDGFIANVAHT FVIGVAQGTQVTGR,LVKPGNQN TQVTEAWNK,SLVEASSSGVSVL SLCEK,TIIQNPTDQQK,HELLQPF NVLYEK,AEFEVHEVYAVDVLVSS GEGK,EGEFVAQFK
IPI00124287.1	P29341	Pabpc1	Polyadenylate-binding protein 1	LFPLIQAMHPSLAGK,NLDDGIDDER,A KEFTNVYIK,VDEAVAVLQAHQAK,IVA TKPLYVALAQR,ALYDTFSAFGNILSCK VCDENGSK,NFGEDMDDER,GYGFV HFETQEAER,PAAAAAAATPAVR,KE FSPFGTITSAK,ITGMLEIDNSELLHML ESPEL,R,GFGFVSFER,FSPAGPILSIR ,SKVDEAVAVLQAHQAK,PLYVALAQR, SLGYAYVNFQQPADAER	EFTNVYIK,NLDDGIDDER,AKEFT NVYIK,VDEAVAVLQAHQAK,SGV GNIFIK,IVATKPLYVALAQR,GYGF VHFETQEAER,PAAAAAAATPA VR,KEFSPFGTITSAK,GFGFVCF SPEEATK,ITGMLEIDNSELLHML ESPEL,R,EFSPFGTITSAK,YQGV NLYVK,FGPALSVK,ALDTMNFV K,ALYDTFSAFGNILSCK,GFGFV FER,FSPAGPILSIR,SKVDEAVAV LQAHQAK,PLYVALAQR,SLGYAY VNFQQPADAER
IPI00120954.2	Q62029	Pabpc2	poly A binding protein, cytoplasmic 2	NLDDGIDDER,GFGFVSFER,IVATKPL YVALAQR,DVITR,PLYVALAQR	
IPI00420950.3	Q6PHQ9	Pabpc4	MCG5546, isoform CRA_c	ITGMLEIDNSELLHMLESPESL,R,AKE FTNVYIK,ALYDTFSAFGNILSCKVCD ENGSK,PLYVALAQR,SLGYAYVNFQQ PADAER	ITGMLEIDNSELLHMLESPESL,R,K FEQLK,ALYDTFSAFGNILSCK,KAHL TNQYMQR,FSPAGPVLSIR,PLYVAL AQR
IPI00136169.1	Q8CCS6	Pabpn1	Isoform 1 of Polyadenylate-binding protein 2	GFAYIEFSDK,GFAYIEFSDKESVR,QM NMSPPPGNAGPVMISLEEK,TSLALDE SLFR	
IPI00125880.1	Q9WVE8	Pacsin2	Protein kinase C and casein kinase substrate in neurons protein 2	ALYDYEGQEHELSFK,AYAQQLTEW AR	
IPI00319933.4	Q99JB8	Pacsin3	Protein kinase C and casein kinase II substrate protein 3	AYAQQQLADWAR,SPDEVTLTIVPTR	

IPI00309207.5	P63005	Pafah1b1	Isoform 1 of Platelet-activating factor acetylhydrolase IB subunit alpha		GVLFHSGGK,YALSGHR	
IPI00624863.1	Q9CQ38	Paics	Phosphoribosylaminoimidazole carboxylase, phosphoribosylaminoribosylaminoimidazole, succinocarboxamide synthetase, isoform CRA_a	DQITAGNAAR,ACGNFGIPCELR, EVTPEGLQMVK,TKEYYELLDTPGR,ASILNTWISLK,LPSGIGCSTILS PEGSAQFAAQIFGLNNHLVWAK,I TSCIFQLLQEAGIK,GPDETLR,IKA EYEGDGIPTVFVSVAGR,IEFGVD VTTK,EIVLADVIDNDSWR,VVVLG GSTSDLGHCEK,RNPGVQEGYK	LPSGIGCSTILSPEGSAQFAAQIFGL NNHLVWAK,ITSCIFQLLQEAGIK,IAT GSFLK,DQITAGNAAR,RNPGVQEG YK,SNGLGPVLSGNTAYPVISCPIT PDWGAQDVWSSLR,ASILNTWISLK	
IPI00132993.1	O88643	Pak1	Serine/threonine-protein kinase PAK 1	SVIEPLPVTPTTR,NTSTMIGAGSKDTGT LNHGSKPLPPNPEEK		
IPI00120790.2	Q9DCE5	Pak1ip1	p21-activated protein kinase-interacting protein 1		YIVVVQNK,LTCLTVWLDR	
IPI00229884.1	Q8CIN4	Pak2	Serine/threonine-protein kinase PAK 2	SVIDPIAPVGDNSVDSGAK,DPLSAN HSLKPLPSVPEEK,ECLQALEFLHANQ VIHR		
IPI00858000.1	Q9ET54	Palld	Isoform 1 of Palladin		EDLLNNGQPR,FGPSQTPAAFLSAL LPSQPPPVAVNALGLPK	
IPI00117264.1	Q99LX0	Park7	Protein DJ-1	VTHPLAK,GPGTSFEFALAIVEALVGK ,TQGPYDVVVLPGGNLGAQNLSESPM VK,ALVILAK,VTVAGLAGKDPVQC SRD VMICPDTSLERAK,GPGTSFEFALAIVE ALVGKDMANQVK,KGLIAAICAGPTALL AHEVGFQCK,DGLILTSR,VTVAGLAGK ,GAEEMETVIPVDVMR	GPGTSFEFALAIVEALVGK,VTVA GLAGKDPVQC SR,DGLILTSR	GPGTSFEFALAIVEALVGK,TQGPY DVVVLPGGNLGAQNLSESPMVK,G LIAAICAGPTALLAHEVGFQCK,VTV AGLAGK
IPI00139168.2	Q3TF18	Parp1	Putative uncharacterized protein	PVQELVGMIFDVESMK,LPKPVQELVG MIFDVESMK,NTHATTHNAYDLEVIDIF K,TLGDFLAEYAK,ELLIFNQQVPSGE SAILDR,TTNFAGILSQGLR	AEPGEVVAPK,KGDEVDGTDEVA K,NTHATTHNAYDLEVIDIFK,KPPL LNNADSVQAK,LQLEDDKESR,A QNELIWNKDELKK,VEMLDNLLDI EVAYSLLR,TTNFAGILSQGLR,AS LCISTK,VVDRDSEEAIEVIR,VVCE DFLQDVSASTK,VVDRDSEEAIEVI RK,GGAAVDPDSGLEHSAHVLEK, ALVEYEIDLQK,TLGDFLAEYAK,S LQELLSAHSLSWGAIEVK,ELLIF NQQQVPSGESAILDR,PVQELVG MIFDVESMKK,GGKVSATLGLVD IVR	SDAYYCTGDVTAWTK,VVCEDFLQ DVSASTK,KMVDPEK,WYHPTCFVK, VGTVIGSNK,QIQAAYSILSEVQQAV SQGSSESQILDLSNR,RQIQAAYSIL SEVQQAVSQGSSESQILDLSNR,LL WHGSR,TLGDFLAEYAK,LPKPVQE LVGMIFDVESMKK,TTNFAGILSQGL R,ASLCISTK

IPI00112473.2	P11103	Parp1	Isoform Long of Poly [ADP-ribose] polymerase 1	VFSATLGLVDIVK,PVQELVGMIFDVDS MK,NTHATTHNAYDLEVIDIFK,ELLIFN QQQVPSGESAILDR,TTNFAGILSQGL R	VVDRDSEEAEEVIR,VVDRDSEEA VIRK,GGAAVDPDPSGLEHSAHVLE K,VFSATLGLVDIVK,ALVEYEIDLQ K,NTHATTHNAYDLEVIDIFK,KPPL LNNADSVQAK,ELLIFNQQQVPSG ESAILDR,LQLEDDKESR,VEMLD NLLDIEVAYSLLR,AQNELIWNIKD ELKK,TTNFAGILSQGLR
IPI00551075.4	Q2EMV9	Parp14	Isoform 1 of Poly [ADP-ribose] polymerase 14		DFAVAVVTFQK,KFIVDCISHR
IPI00354432.4	Q925B0	Pawr	Isoform 1 of PRKC apoptosis WT1 regulator protein	KREDAITQQNTIQNEAATLPDPGTSYL PQDPSR,SGGSTTTDFLEEWK,LKEEI DLLNRDLDDMEDENEQLK,LKEEIDLL NR,DLDDMEDENEQLK	
IPI00461676.5		Pbrm1	polybromo 1	INMSGYILFSSEMRAVIK,RDDIEDGDS MISSATSDTGSAK,YEEGESEAESITSF MDVSNPFHQLYDTR	
IPI00128904.1	P60335	Pcbp1	Poly(rC)-binding protein 1	QVTITGSAASISLAQYLINAR,IITLTGPT NAIFK,ESTGAQVQVAGDMLPNSTER, LEEDINSSMTNSTAASRPPVTLR	AITIAGVPQSVTECVK,GYWASLD LEEDINSSMTNSTAASR,AITIAGVP ASTQTTHELTIPNNLIGCIIGR,IITL QSVTECVK,QGANINEIR,GYWASLD TGPTNAIFK,EVGSIIIGK,INISEGN ASTQTTHELTIPNNLIGCIIGR,IITLTG CPER,AFAMIIDK,LVVPATQCGSLI PTNAIFK,EVGSIIIGK,INISEGNCPER GK,MDAGVTESGLNVTLTIRLLMH ,LVVPATQCGSLIGK,IANPVEGSSG GKEVGSIIIGK,IANPVEGSSGR R
IPI00127707.1	Q61990	Pcbp2	Isoform 1 of Poly(rC)-binding protein 2	QVTITGSAASISLAQYLINVR,ESTGAQ VQVAGDMLPNSTER	LVVPASQCGSLIGK,AITIAGIPQSII GVTIPYRPK,LVVPASQCGSLIGK,AI ECVK,KGESVKK,EVGSIIIGK,INIS TIAGIPQSIIIECVK,EVGSIIIGK,IITLAG EGNCPER,IITLAGPTNAIFK,AFAM PTNAIFK,INISEGNCPER,IANPVEG IIDK,IANPVEGSTDR STDR
IPI00356667.4	Q5HZI5	Pcdh17	Protocadherin 17		VNGEQHHWDMSLPLIVTLSTISIILLA AMITIAVK,MYLSICCCFLWAPALTL K
IPI00223060.1		Pck2	mitochondrial phosphoenolpyruvate carboxykinase 2		EGALDLSGLSAVDTSQLFSIPK,E VLAELEALEGR,LGTPVLQALGDG DFIK
IPI00752192.1	Q9QYX7-4	Pclo	Isoform 4 of Protein piccolo		YLEMGINRR,APVADVEPK,QELDSS QAPQQPGKPPDPGR,DLSGIHTTDA ITSLSALHQSQPMMPR,IIEDEEKVVDL TAGRR,QPTLHGPTPATAPQPPVAE ALPKPAPPK
IPI00113870.1	P17918	Pcna	Proliferating cell nuclear antigen		KVLEALK,YLNFFTK,FSASGELGN GNIK,LMDLDVEQLGIPEQEYSCVI K,LIQGSILK,DLSHIGDAVVISCAK, KVLEALK,YLNFFTK,FSASGELGNG ATPLSPTVTLSMSADVPLVVEYK, NIK,IADMGHLK,LMDLDVEQLGIPEQ AEDNADTLALVFEAPNQEK,NLA EYSCVIK,YYLAPK,ATPLSPTVTLISM MGVNLTSMSK,LSQTSNVDKEEE SADVPLVVEYK AVTIEMNEPVHLTFALR,MPSGEF AR

IPI00457623.3	Pcnt	pericentrin		AQHESELEHLR,HEAEVSLK,ELEIQ R,LASMFLELR,QFMDDQAAER,CEA LLAQEKGQSELQKSLEAER
IPI00115490.1	P49586	Pcyt1a	Choline-phosphate cytidyltransferase A	IDFVAHDDIPYSSAGSDDVYK,EFIGSF LEMFGPEGALK
IPI00551454.3	Q6NS46	Pdcd11	Protein RRP5 homolog	IEDPEINSIEDVK,TTEPGVTGLILAVEG PASK,GLTVSFPFGK,IPLLLTSLSK,LN EQVAQEEPLEDLLR,ILDDVPVGTSPPT TLK TTEPGVTGLILAVEGPASK,VLALS LR,FAQLEFQLGDVER,ISYQQLG AVLDDVPVQGFQFK,FQVGQAIEAT VWDPDVP, VFLHLADIYTK,KPAL VSTVEGGQDPK,NLIELSLLPSDT GRPDVFSAPPEPK,FVTTTSEHFV EGQTVVAK,IIDYSQMDELALLSLR LVLSSPNSSILWQYMAFHLQATEIE K,CVLPSSVIIGLGPSVLGLAK,HEL S TQHIDPETVVFYTGQVVK,GLVDFM HLEPK,TTEPGVTGLILAVEGPASK, ACILCVHPR,GTVLAIKPFGILVK,IPL LLTSLSK,HILLCR
IPI00885252.1		Pdcd5	22 kDa protein	VSEQGLIEIEK,AVENYLIQMAR,LSNL ALVKPEK,NSILAQVLDQSAR
IPI00337893.2	P35486	Pdha1	Pyruvate dehydrogenase E1 component subunit alpha, somatic form, mitochondrial	MVNSNLASVEELKEIDVEVR,GPILMEL QTYR EIDVEVR,AILAEITGR,GPILMELQ TYR NFYGGNGIVGAQVPLGAGIALACK, RGDFIPGLR,LEEGPPVTTVLR
IPI00132042.1	Q9D051	Pdha1	Pyruvate dehydrogenase E1 component subunit beta, mitochondrial	DIIFAVK,VFLLGEEVAQYDGAYK
IPI00230108.6	P27773	Pdia3	Protein disulfide-isomerase A3	LAPEYEAATR,TFSHSDFGLESTT GEVPVVAIR,MDATANDVPSPEYVK,T ADGIVSHLK,KTFSHLSDFGLESTTGE VPVVAIR,GFPTIYFSPANK,VVVAENF DDIVNEEDK,ELNDFISYLQR,ALEQFL QEYFDGNLKR,EYDDNGEGITIFR,DGE EAGAYDGPR,ALEQFLQEYFDGNLKR,D LFDSDGHSEFLK,DLLTAYYDVDYEK,EY DDNGEGITIFRPLHLANK,SEPIPESNE GPVK,DASVVGFFR,FISDKDASVVGFF R ALEQFLQEYFDGNLKR,TFSHSDF FGLESTTGEVPVVAIR,DLLTAYY DVDYEK,FAHTNIESLVK,LSKDPN IVIAK PLHLANK,LNFAVASR,LAPEYEA ATR,TFSHSDFGLESTTGEVPVVAI R,GFPTIYFSPANK,ELNDFISYLQR, FAHTNIESLVK,FLDAGHK,YGVSGY PTLK
IPI00271951.5	Q3TT79	Pdia4	protein disulfide isomerase A4	LVLTHPEK,VDATEQTDLAK,FIDE HATKR,KGQAVDYDGSR FHHTFSPEIAK,HALPLVGHR,FDVS GYPTIK
IPI00122362.1	Q921X9	Pdia5	Protein disulfide-isomerase A5	KHTLVMFYAPWCPHCK,NNVLVLYSE SEVAEAESHLK
IPI00222496.3	Q3TML0	Pdia6	Putative uncharacterized protein	GSTAPVGGGSFPTITPR,GSFSEQGIN EFLR,HQSLGGQYGVQGFPTIK,DVVE LTDDTFDK,NLEPEWAAAATEVK,TGE AIVDAALSALR,NSYLEVLLK ALDLFSDNAPPELLEIINEDIAK,N SYLEVLLK GSTAPVGGGSFPTITPR,GSFSEQ INEFLR,HQSLGGQYGVQGFPTIK,N LEPEWAAAATEVK,ALDLFSDNAP PELLEIINEDIAK,TGEAIVDAALSALR
IPI00309768.7	O70400	Pdlim1	PDZ and LIM domain protein 1	IWSPLVTEEGK,DFEQPLAISR,QSTSF LVLQEILESDGK,VITNQNSPTGLYSS ENISNFNNAVESK AAIANLCIGDLITAIIDGEDTSSMTHLE AQNK,PVVQPHPSGSLIIDK,VAASV GNAQK
IPI00845638.1	Q4VA53-3	Pds5b	Isoform 3 of Sister chromatid cohesion protein PDS5 homolog B	SLVATFIVK,SLDPSNLEHLITPLVT IGHIALLAPDQFAAPLK,IAPVHIDT ESISALIK

IPI00112676.1	Q9CZG9	Pdzd11	PDZ domain-containing protein 11	AGLQEGDQVLAVNDVDFQDIEHSK,IP YDDYPVVFLPAYENPPAWIPPHER,VY HPDYNNELTQFLPR	
IPI00121013.1	Q62048	Pea15a	Isoform 1 of Astrocytic phosphoprotein PEA-15	DNLSYIEHIFEISR,SEEITGSAWFSFL ESHNK,LDKDNLSYIEHIFEISR,RPDLL TMVVDYR	
IPI00137730.7	P70296	Pebp1	Phosphatidylethanolamine-binding protein 1	VDYAGVTVDELGK,VLTPQTVMNRPS SISWDGLDPGK,GNDISSGTVLSDYVG SGPPSGTGLHR,LYTLVLTDPDAPSR,P SSISWDGLDPGK	VDYAGVTVDELGK,GNDISSGTVL SDYVGSPPSGTGLHR,LYTLVLT DPDAPSR,YVWLVEQEQLPLSCD EPILSNK VDYAGVTVDELGK,LYEQLSGK,GN DISSGTVLSDYVGSPPSGTGLHR, PSSISWDGLDPGK
IPI00321597.6	Q9DBD5	Pelp1	Proline-, glutamic acid- and leucine-rich protein 1		LLPQVLNAWSTGR,LLLLESISGLL QPR,LHGTTAGGAQNLSALGALVN LSNAHLGSIK,LPSLGAGFSQGLK, LLLALLLAPSPR,GSSDGGLQSGK PSAPK LLPQVLNAWSTGR,TASPVAPVHPP IQWAPHLPLMCLLR,LHGTTAGGAQ NLSALGALVNLNAHLGSIK,LPSLG AGFSQGLK,NANSDVCAALR,TILM CGPLIK
IPI00620167.2	Q5SQ20	Pes1	Pescadillo homolog 1, containing BRCT domain		RLTVEFLHYVITAR,LAALSASLAR, EALAFIIR LQLSLPDFR,LLLPAVEYFPGMQLPP HLSPFVSEK,LEGQAQAEK,FLLHE PIVNK
IPI00461329.3	Q9D0K1	Pex13	Peroxisomal membrane protein PEX13		FVQQAEESSR,VPPPILPRPSQQTG SNNVNTFR
IPI00265406.3	Q5SUR0	Pfas	Phosphoribosylformylglycinamide synthase	LSFTDHPTAEMEAIISLAALHDR,WATV RVEPGPALMLR,CPACFVGTITGDKR	CSGNWMWAAK,GVAFVGGFSYA DVLGSAK,TGQGDAPLTPPTPVD LLYVPLSPGQHR,VEPGPALMLR,T GQGDAPLTPPTPVDLDDLWVLGK,K AMVAVMAALGVAVDGGK,LAVSE LAHSLFESIMSTQASSNPNVVK,AF ALTNLVFALVTDLR,LGGTALAQC FSQLGEHPPDLDPENLVR LNFSTPASTNIVSVCQAAGLR,TGPS YYLPPTFPVASVPCKPGGPVPR,GH LLYVPLSPGQHR,VEPGPALMLR,T GQGDAPLTPPTPVDLDDLWVLGK,K LAHSLFESIMSTQASSNPNVVK,AF HITQGLLK,KPPVLQPLALPELSVR, LGGTALAQCFSQLGEHPPDLDPENLVR
IPI00132485.2	Q9CWM4	Pfdn1	Prefoldin subunit 1	LADIQIEQLNR,HAHLTDTEIMTLVDET NMYEGVGR,AFTLQAK,KAFTELQAK, VIDTQQK	
IPI00119545.2	O70591	Pfdn2	Prefoldin subunit 2	LMGEDEKPAK,AAELEMELNEHSLVI DTLK,GAVSAEQVIAGFNR,IETLSQQL QAK	AAELEMELNEHSLVIDTLK,IETLS QQLQAK GAVSAEQVIAGFNR,IETLSQQLQA K
IPI00378557.3	Q3UWL8	Pfdn4	prefoldin 4 isoform 1	FGSNINLEADES,AAAEDVNVTFEDQQ K,MAATMKKAAAEDVNVTFEDQQK,TL QEEIDALESR	
IPI00554862.2	P12382	Pfkl	6-phosphofructokinase, liver type		AIGVLTSGGDAQGMNAAVR,LNIIII AEGAIDR,VFANAPDSACVIGLR,T NVLGHLQGGAPTPFDR,HGKPI SSSYVK,TFVLEVMGR,NEWGSL EELVK,TGISEGHTVYIVHDGFEG LAK,AAAAYNLLQHGITNLCVIGG GSLTGANIFR,GVQVEVGHWDVA GWLGR,IMEVIDAITTAQSHQR VFANAPDSACVIGLR,TNVLGHLQ GGAPTPFDR,HGKPISSSYVK,VT GHVQR,AAAAYNLLQHGITNLCVIG DGSLTGANIFR,VVAFSPVTELK

IPI00124444.1	Q9WUA3	Pfkp	Isoform 1 of 6-phosphofructokinase type C		IIEVVDAIMTTAQSHQR,TFVLEVMGR,LNIIIVSEGAIDMQNKPITSEK
IPI00224740.6	P62962	Pfn1	Profilin-1	TFVSITPAEVGVLVGK,TLVLLMGK,SSFFVNGLTLGGQK,DSLLQDGEFTMDLR	DSPSVWAAVPGK,EGVHGGLINKK,TFVSITPAEVGVLVGK,SSFFVNGLTLGGQK,TLVLLMGK,EGVHGGLINK,STGGAPTFFNVTVTMTAK,DSLLQDGEFTMDLR
IPI00457898.3	Q9DBJ1	Pgam1	Phosphoglycerate mutase 1	HLEGLSEEAIMELNLTGPIVYELDK,FSGWYDADLSPAGHEEAK,NLKPIKPMQFLGDEETVR	YADLTEDQLPSCESLK,VLIAAHGNSLR,YADLTEDQLPSCESLKDTIAR,DAGYEFDICFTSVQK,FSGWYDADLSPAGHEEAK,RVLIAAHGN SLR,NLKPIKPMQFLGDEETVR,FSGWYDADLSPAGHEEAK,HLEGLSEEAIMELNLTGPIVYELDK,HGESAWNLENR,HYGGLTGLNK,TLWTVLDAIDQMWLPVVR,AMEAVAAQ GK,ALPFWNEEIVPQIK
IPI00466919.7	Q9DCD0	Pgd	6-phosphogluconate dehydrogenase, decarboxylating		LVPLLDTGDIIDGGNSEYR,NPELQNLDDFFK,AIFQAIAAK
IPI00555069.3	P09411	Pgk1	Phosphoglycerate kinase 1	VLPGVDALSNV,DCVGPEVENACANPAAGTVILLENLR,VSHVSTGGGASLELLE GK	NNQITNNQR,IQLINMLDKVNEMIIGGGMAFTFLK,VDFNVPMK,FCLDNGAK,YSLEPVAELK,IQLINMLDK,FHVEEEGK,FHVEEEGKGCITIIGGGDTATCCA,ITLPVDFVTADKFDENAK,VLPGVDALSNV,VLNNMEIGTSLYDEEGAK,LGDVYVNDAFGTAHR,QIWWNGPVGVFEWEAFAR,SLMDEVVK,AHSSMVG VNL P Q K , D C V G P E V E N A C A N P A A G T V I L L E N L R , A L E S P E R P F L A I L G A K , V S H V S T G G G A S L E L L E G K , S V V L M S H L G R P D G V P M P D K , Y A E A V G R
IPI00132080.1	Q9CQ60	Pgls	6-phosphogluconolactonase		LPIPDSQVLTINPALPVEDAEDYAR,VTLTLPVLNAAQSIIFVATGEGK
IPI00830261.1	B1AVP0	Phactr2	Phosphatase and actin regulator 2		AGLVGTR, LGNRPSK, TENTEIHSEPTAAPTLPPTAPPK

IPI00133440.1	P67778	Phb	Prohibitin		AAIISAEGDSK,FGLALAVAGGVV NSALYNVDAGHR,EFTEAVEAK,A AELIANSLATAGDGLIELR,IYTSIG EDYDER,ILFRPVASQLPR,DLQN VNITLR,AATFGLILDDVSLTHLTF GK,KLEAAEDIAYQLSR,GVQDIVV GEGTHFLIPWVQKPIIFDCR,PVAS QLPR,VFESIGK,FDAGELITQR,VL PSITTEILK	NITYLPAGQSVLLQLPQ,AAIISAEGD SK,FGLALAVAGGVVNSALYNVDAG HR,DLQNVNITLR,PVASQLPR,GVQ DIVVGEGETHFLIPWVQKPIIFDCR,FD AGELITQR,ILFRPVASQLPR,VLPSIT TEILK
IPI00321718.4	O35129	Phb2	Prohibitin-2	IGGVQQDTILAEGLHFR,VLSRPNAQEL PSMYQR,AKDFSLILDDVAITELSF YLTADNLVNLQDESFTTR	IPWFQYPIIDIR,LLL GAGAVAYG VR,VLPSIVNEVLK,LGLDYEER,DF SLILDDVAITELSF SR,DLQMVNISL R,FNASQLITQR,AQVSLIR,IGGV QQDTILAEGLHFR,IVQAEGEAEA AK,EYTAAVEAK,IYLTADNLVNL QDESFTTR	VLPSIVNEVLK,VLPSIVNEVLSVVA KFNASQLITQR,FNASQLITQR,AQV SLLIR,IGGVQQDTILAEGLHFR,LAE GLHFR,IVQAEGEAEA AK, EYTA AVEAK
IPI00225961.5	Q61753	Phgdh	D-3-phosphoglycerate dehydrogenase		ALVDHENVISCPHLGASTK,TLGIL GLGR,NAGTCLSPAIVIGLLR,GGI VDEGALLR,VTADVINAEEK,GTIQ VVTQGTSLK,AGTGVDNVDLEAA TR	TLGILGLGR,NAGTCLSPAIVIGLLR, KGILVMNTPNGNSLSAAELTCGMIM CLAR,GTIQVVTQGTSLK,AGTGVDN VDLEAATR
IPI00264501.8	Q7M6Y3	Picalm	Isoform 1 of Phosphatidylinositol-binding clathrin assembly protein		ATTLSNAVSSLASTGLSLTK,GDIP DLSQAPSSLLDALEQHLASLEGK	ITAAQHSVTGSAVSK,ATTLNAVSS LASTGLSLTK,LVSDDDLSSLANLVG NLGIGNGTTK,GDIPDLSQAPSSLLD ALEQHLASLEGK
IPI00115695.1	O70167	Pik3c2g	Isoform 1 of Phosphatidylinositol-4-phosphate 3-kinase C2 domain-containing gamma polypeptide		RPLQSIR,DLIAEILLCANEPSPK	
IPI00336318.1	Q80X14	Pip4k2b	Phosphatidylinositol-5-phosphate 4-kinase type-2 beta	FGIDDQDYQNSVTR,LTVDGVETYMV TR		
IPI00170126.4	Q8K411	Pitrm1	Isoform 1 of Presequence protease, mitochondrial		IFSQHLQNK,IHGFTVNQVTPVPE LFLTAVK,LLPDHTYSVSVGGDPL CIPELTWEQLK,AFSSLNLTLPEDL RPIVPLFCSVLTK	IFSQHLQNK,HQDASCLPALK,LLPD HTYSVSVGGDPLCIPELTWEQLK

IPI00407130.4	P52480	Pkm2	Isoform M2 of Pyruvate kinase isozymes M1/M2	RFDEILEASDGIMVAR,FDEILEASDGI MVAR,EATESFASDPILYRPAVALDT K,GADFLVTEVENGGSLGSK,FGVEQD VDMVFASFIR,LDIDSAPITAR,LAPITSD PTEAAAVGAVEASF,LNFSHGTHEYH AETIK,KGDVVIVLTGWRPGSGFTNTM R,IYVDDGLISLQVK,PVAVALDTK,KGV NLPGAAVDLPAVSEK,SGGTAEVELK, EAEAAIYHLQLFEELR,SGGTAEVELK ,GVNLPGAAVDLPAVSEK,EATESFAS DPILYR,FGVEQDVMVFASFIRK,DAV LNAWAEDVDR,GDLGIEIPA	RFDEILEASDGIMVAR,EATESFA SDPILYRPAVALDTK,AADVHEV R,FGVEQDVMVFASFIR,LNFSH GTHEYHAETIK,KAADVHEVR,PV AVALDTK,APIIAVTR,SGGTAEVE LK,EAEAAIYHLQLFEELR,KGDVVI VLTGWR,VNLMAMDVGK,GDVI TGWRPGSGFTNTMR,DAVLNAW AEDVDR,GDYPLEAVR,AEGSDV ANAVLDGADCIMLSGETAK,IENH EGVR,ITLDNAYMEK,GADFLVTE VENGGSLGSK,GIFPVLCK,EAEA AIYHLQLFEELR,LDIDSAPITAR, LAPITSDPTEAAAVGAVEASF,K GDVVIVLTGWRPGSGFTNTMR,IY VDDGLISLQVK,KGVNLPGAAVDL PAVSEK,EKGADFLVTEVENGG SLGSK,CCSGAIVLTK,NTGICTIGP ASR,SGGTAEVELK,GVNLPGAA VDLPAVSEK,EATESFASDPILYR, MQHLIAR,AGKPVICATQMLESMI K,GDLGIEIPA	PVICATQMLESNIK,EATESFASDPIL YRPAVALDTK,ITLDNAYMEK,GAD FLVTEVENGGSLGSK,GIFPVLCK,L APITSDPTEAAAVGAVEASF,LNFS HGTHEYHAETIK,LDIDSAPITAR,IYV DDGLISLQVK,KGVNLPGAAVDLPA VSEK,PVAVALDTK,APIIAVTR,SGS TAEVELK,NTGICTIGPASR,VNLM AMDVGK,GVNLPGAAVDLPAVSEK,EA TESFASDPILYR,MQHLIAR,DAVLNA WAEDVDR,GDYPLEAVR,GDLGIEI PAEK,AGKPVICATQMLESNIK,AEG SDVANAVLDGADCIMLSGETAK
IPI00626385.4		Plec1	plectin isoform 12alpha		AALAHSEIATTQAASK,GFFDPN THENLTYLQLLER,LTVDEAVR,TE VVETTQVYTEEETRR,IVITIVEEV ETR,LAEEVALEK,LSVAAQEA R,VTLVQTLIQR,TLQEEHVTVAQ LR	SSIAGLLLKPTNEK,QVQVALETAQR SAEVELQSK,LEEQAALHK,VLALPE PSPAAPTLR,ATVSAPFGK,AIVQLK PR,AQAEQAALK,KNLIDR,SLLAWQ SLSR
IPI00624550.4	Q3UIL6-2	Plekha7	Isoform 2 of Pleckstrin homology domain-containing family A member 7	EEAVLGSIPSPYVISPVAPEDR,GWE EGFTEEGASFFIDHNQQTTFR,IINISY ALASEASK,EQEFDLQLLER,DQLESVL EVLHR,YSQPLPGDLGSWK,SPYLPA EEDALFVDLPGGPR,NSLADLDSQLQE QER		
IPI00319270.2	Q9DBG5	Plin3	Mannose-6-phosphate receptor-binding protein 1		TLTAAVSTAQPILSK,NHAYEHS GK,TPQDAEKDPAKPEQVEAR	TLTAAVSTAQPILSK,DPAKPEQVE AR,DITQQLQSMCVALGASIQGLPS HVR,VAGLPLISSTYGMVSAAYTSTK ,AQETLQQLTSVLGLMESVK
IPI00344681.2	Q3V0K9	Pls1	Plastin-1	MVMTVFACLMGKGLNR,SISTSPLVLD LIDAIAPNAVR		
IPI00133709.5	Q9D1G2	Pmkv	Isoform 1 of Phosphomevalonate kinase			LGGNICALLR,RQADPGFFCRK
IPI00785231.1	Q3TUQ5	Pnn	pinin		LEVQAEER,FKQESTVATER	

IPI00131909.1	Q9CPS7	Pno1	RNA-binding protein PNO1	LDDLFLSFETDVK,AFVLGFQVEDAL ALIR,LDDLFLSFETDVKPLK,IFTPIVE HLGLQIR,RPVFPPLSGDQLLTGK	KEETRK,IFTPIVEHLGLQIR,KIPVPG NR,TAICNLILGNPPSK,RPVFPPLSG DQLLTGK	
IPI00315452.5	P23492	Pnp1	Purine nucleoside phosphorylase		AAAQTLER,MLGADAVGMSTVPE VIVAR,VFGFSLITNK,DHINLPGFC GQNPLR	AAAQTLER,LVFGLLNGR,VFGFSLIT NK,WLLQHTEYRPQVAVICGSLGG LTAHLK,DHINLPGFCGQNPLR
IPI00135996.4	Q8K4L4	Pof1b	Protein POF1B	YFGELLADLSR,IVIEK		
IPI00321912.2	Q8K202	Polr1e	Isoform 1 of DNA-directed RNA polymerase I subunit RPA49	FTLYNSTDLVNPR,SIWFLDALIR		
IPI00136207.6	P08775	Polr2a	DNA-directed RNA polymerase II subunit RPB1		PSDLHLQTGYK,TPSLTVFLLGQS AR,AHNNLEPTPGNTRL,LSGEA FDWLLGEIESK,AKQDVIEVIEK,TA ETGYIQR,INISQVIAVVGQQNVEG K,NSINQVVQLR	
IPI00268215.1	Q9D7M8	Polr2d	DNA-directed RNA polymerase II subunit RPB4	EFETAETLLNSEVHMLLEHRK,QQNES AEDEQELSEVFMK,AGDVEEDASQLIF PK,EFETAETLLNSEVHMLLEHR,KQQ NESAQELSEVFMK,FEDEELQQIL DDIQTK		
IPI00124284.3	Q923G2	Polr2h	DNA-directed RNA polymerases I, II, and III subunit RPABC3		LVIASLTLYEDGTLDDGEYNPTDD RPSR,IEGDETSTEATR	
IPI00169797.1	Q8K205	Pop1	Processing of 1, ribonuclease P/MRP family	MRNQPSNVTLSSGFMAER,VHAQEAA IIASMPGAQETDPR		
IPI00117218.3	P20263	Pou5f1	POU domain, class 5, transcription factor 1			CPKPSLQQITHIANQLGLEK,LRPLL EK,ITLGYTQADVGLTLGVLFVK,PSL QQITHIANQLGLEK
IPI00110684.1	Q9D819	Ppa1	Inorganic pyrophosphatase	VKVLGILAMIDEGETDWK,GQYISPFHD VPIYADKDVHFMVVEVPR,GQYISPFH DVPIYADK,VPDGGKPENEFNAEFK,Y KVPDGGKPENEFNAEFK,LKPGYLEA TVDWFR,VLGILAMIDEGETDWK,GYIW NYGAIPQTWEDPGHSDK,VIAINVDDP DAANYK	AAPFTLEYR,GQYISPFHDVPIYAD KDVHFMVVEVPR,LKPGYLEATV DWFR,VLGILAMIDEGETDWK,VIA INVDDPDAANYK	WFHQQK,GQYISPFHDVPIYADK,YV ANLFPYK,STHDYWK,VIAINVDDP AANYK
IPI00127050.1	Q91VM9	Ppa2	Isoform 1 of Inorganic pyrophosphatase 2, mitochondrial	MEIATEEPLNPIK,FKPGYLEATLNWFR ,ILGTLALIDQSETDWK		
IPI00130510.1	Q91YU8	Ppan	Suppressor of SWI4 1 homolog	TEEELQAILAAK,LPGGPTLTFQISK,IQ EGVGNLNVLFHSFVHK,NLESYAAQP HSFVFTTR,QAVGEEPDEDLFPPTAAK		LMATMFQNLFP SINVHTVNLNTIK,R PGGPLGK
IPI00896602.1	B2RXQ2	Ppfia1	Ppfia1 protein	EATSVHDLNDKLENEIANK,ESPGQVG VSETENSSQDALGLSK,EFNLLITGTD R		

IPI00554989.3	Q9CZK9	Ppia	Peptidyl-prolyl cis-trans isomerase	EGMNIVEAMER,FEDENFILK,HVVFGK,SIYGEKFEDENFILK,MVNPTVFFDITADDEPLGR,SIYGEK,VKEGMNIVEAMER,TEWLDGK,ALSTGEK	HTGPGILSMANAGPNTNGSQFFICTAK,EGMNIVEAMER,FEDENFILK,ITISDCGQL,SIYGEKFEDENFILK,IIPGFMCQGGDFTR,VKEGMNIVEAMER,KITISDCGQL,TEWLDGK	HTGPGILSMANAGPNTNGSQFFICTAK,EGMNIVEAMER,FEDENFILK,IIPGFMCQGGDFTR,KITISDCGQL,TEWLDGK
IPI00135686.2	P24369	Ppib	Peptidyl-prolyl cis-trans isomerase B	VVFGFLGK,DVIIVDSGK,HVVFGK,IEVEKPFIAIAKE,DTNGSQFFITTVK,DKPLKDVIIVDSGK,VYFDLQIGDESVGR,IEVEKPFIAIAK,TVDNFVALATGEK,FPDENFK,DFMIQGGDFTR	DKPLKDVIIVDSGK,VYFDLQIGDESVGR,TVDNFVALATGEK	IEVEKPFIAIAK,TVDNFVALATGEK
IPI00130240.1	P30412	Ppic	Peptidyl-prolyl cis-trans isomerase C	HVVFGK,DGTGGMSIYGETFPDENFK,IVIGLFGNVVVK,FPDENFK		
IPI00132966.3	Q9CR16	Ppid	40 kDa peptidyl-prolyl cis-trans isomerase	EGLLSMANAGPNTNGSQFFITVPTPHLDGK,ILLISEDLK,FMIQGGDFSNQNGTGGESIYGEK,IVLELFADIVPK,KFMIQGGDFSNQNGTGGESIYGEK,VFFDVIDIGER,SIYGEK,LCVIAECGELKEGDDWGIFPK,ILLISEDLKNIGNTFFK,LQPIALS CVLNIGACK,DGSGDShPDFPEDADIDLKDVDK,DGSGDShPDFPEDADIDLK	HVVFGQVIK,ILLISEDLK,FEDENFHYK,IVLELFADIVPK,AIQAECLK,VFFDVIDIGGER,EYDQALADLKK,LQPIALS CVLNIGACK,TLENVEVNGEKP	HVVFGQVIK,AIQAECLK,GTGSTTGKPLHFK,LQPIALS CVLNIGACK
IPI00111343.1	Q9QZH3	Ppie	Peptidyl-prolyl cis-trans isomerase E	TLEENKEEEGPEPPKAEAEQEGETAK,HVVFGEVTEGLDVLRLVHAAFIPFGDITDIQIPLDYETEK,VLVYVGLAAEEVDDK		
IPI00457532.2	Q9D6L8	Ppil3	Isoform 1 of Peptidyl-prolyl cis-trans isomerase-like 3	VIDGLETLDELEK,VIDGLETLDELEKLPVNEK		
IPI00130185.1	P62137	Ppp1ca	Serine/threonine-protein phosphatase PP1-alpha catalytic subunit	GNHECASINRIYGFYDECK,EIFLSQPILLEAPLK,YPENFFLLR	GVSFTFGAEVVAK,AHQVVEDGYEFFAK,GNHECASINR,EIFLSQPILLEAPLK	TFTDCFNCLPIAAIVDEK,ICGDIHQYYDLLR,GNHECASINR,IFCCHGGLSPDLQSMEQIR,EIFLSQPILLEAPLK,LNLDSIIGR
IPI00330483.1	Q80W00	Ppp1r10	Isoform 1 of Serine/threonine-protein phosphatase 1 regulatory subunit 10	YKPLNTAPNTTKEIK,STGLELDTPSLVPVK,LPPVLANLMGSMGAGK,GILQELFLNK		
IPI00623545.2	Q62084	Ppp1r14b	Protein phosphatase 1 regulatory subunit 14B	LNLEEWILEQLTR,VYFQSPPGAAGEGPGGADDDGPVR,VYFQSPPGAAGEGPGGADDDGPVRR		
IPI00112721.1	Q9ERT9	Ppp1r1a	Protein phosphatase 1 regulatory subunit 1A	RPTPATLVLTSDQSSPEIDEDRIPNSLLK,RPTPATLVLTSDQSSPEIDEDR,TESSAHMLPLDSQGASLV		
IPI00129319.3	Q3UM45	Ppp1r7	Protein phosphatase 1 regulatory subunit 7	IEGLQSLVNLRLVMLALPSVR,LQNLDALTNLTVLSVQSNR,ELYLSNNGIEVIEGLENNNK,LTMLDIASNR,AIENIDTLNLESLFLGK,GAEDPEEEHELAVDMETINLDR,ELDLYDNQIK,IENISNLHQLQMLELGSNR,HGGGGIVANLSEQSLK		IEGLQSLVNLRLVMLALPSVR,LQNLDALTNLTVLSVQSNR,ELYLSNNGIEVIEGLENNNK,LTMLDIASNR,AIENIDTLNLESLFLGK,GAEDPEEEHELAVDMETINLDR,ELDLYDNQIK,IENISNLHQLQMLELGSNR,HGGGGIVANLSEQSLK

IPI00153750.1	Q8R3G1	Ppp1r8	Nuclear inhibitor of protein phosphatase 1	GLLGLPEEETELDNLTEFNTHANK,RIS TLTIEEGNLDIQRPK,LEPHKPPQIPIDS TVSFGASTR,ISTLTIEEGNLDIQR,VTF SEDEIINPEDVDPVSVGR,MEGSGSLG LEESGSR,VFLIDLNSTHGTFGLGHIR,IS TLTIEEGNLDIQRPK,RVFLIDLNSTHGT FLGHIR		
IPI00120374.1	P63330	Ppp2ca	Serine/threonine-protein phosphatase 2A catalytic subunit alpha isoform	YSFLQFDPAPR,CPVTVCGDVHGQFH DLMELFR		
IPI00310091.8	Q76MZ3	Ppp2r1a	Serine/threonine-protein phosphatase 2A 65 kDa regulatory subunit A alpha isoform		LTQDQDVVDVK,LSTIALALGVER,V LELDNVK,DNTIEHLLPLFLAQLKD ECPEVR,SALASVIMGLSPILGK,IG PILDNSTLQSEVKPILEK,ELVSDA NQHVK,LNIISNLDCVNEVIGIR	QLSQSLLPAIVELAEDAQ,VLELDNV K,SALASVIMGLSPILGK,IGPILDNST LQSEVKPILEK,ELVSDANQHVK,LNI ISNLDCVNEVIGIR
IPI00222306.5	Q8BIX1	Ppp2r1b	Putative uncharacterized protein		LSTIALALGVER,LNIISNLDCVNEV IGIR,IALS DLIPAFQSLLR	QLSQSLLPAIVELAEDAQ,IGPILDTN ALQGEVKPV LQK,LNIISNLDCVNEV IGIR,ELVSDTNQHVK
IPI00880817.1		Ppp2r2d	Protein	SFFSEIISISDVK,INLWHLEITDR		
IPI00118723.3	P58389	Ppp2r4	Serine/threonine-protein phosphatase 2A regulatory subunit B'			FGSLLPIHPVTSG,QVAIVFK,LDQEA ENLVATVVPHTLAAAVPEVAVYLK, QPPPDSSSEETPPTTQNFIIPKK
IPI00756703.1	P63328-2	Ppp3ca	Isoform 2 of Serine/threonine-protein phosphatase 2B catalytic subunit alpha isoform			DAMPDANLNSINK,QLTQSAIK
IPI00109415.1	P97470	Ppp4c	Serine/threonine-protein phosphatase 4 catalytic subunit			QIEQLR,IFCVHGGLSPSIQTLDQIR
IPI00457950.2	Q91VJ5	Pqbp1	Polyglutamine-binding protein 1	KDEELDPMDPSSYS DAPR,IEGLPPSW YK,TGADTTAAGPLFQQR,DEELDPMD PSSYS DAPR,HLEPEPEEEIIAEDYDDD PVDYEATR		
IPI00121788.1	P35700	Prdx1	Peroxisredoxin-1	GLFIIDDK,SVDEIIR,ADEFK,K QGGLGPMNIPLISDPK,DISLSEYK,QG GLGPMNIPLISDPK,LVQAFQFTDK,AT AVMPDGQFK,SVDEIIRLVQAFQFTDK	QITINDLPVGR,SVDEIIR,TIAQDY GVLK,KQGGLGPMNIPLISDPK,DI SLSEYK,IGYPAPNFK,LVQAFQFT DK,HGEVCPAGWKPGSDTIKPDV NK,GLFIIDDK,KLNCQVIGASVDS HFCHLAWINTPK,ATAVMPDGQF K,ADEGISFR,LNCQVIGASVDSHF CHLAWINTPK	QITINDLPVGR,GKYVFFFYPLDFT FVCPT EIIAFSDR,SVDEIIR,TIAQDY GVLK,YVFFFYPLDFTFVCPT EIIAF SDR,KQGGLGPMNIPLISDPK,DISL EYK,RTIAQDYGVLK,LVQAFQFTDK, IGYPAPNFK,HGEVCPAGWKPGSD TIKPDV NK,GLFIIDDK,QGGLGPMNI PLISDPK,PGSDTIKPDV NK,ATAV PDGQFK,HGEVCPAGWK,ADEGISF R,LNCQVIGASVDSHFCHLAWINTP K

IPI00117910.3	Q61171	Prdx2	Peroxisredoxin-2	SKEYFSK,EGGLGPLNIPLADVTK,EYFSK,SAPDFTATAVVDGAFK,KEGGLGPLNIPLADVTK	GLFIIDAK,EGGLGPLNIPLADVTK,SLSQNYGVLK,KLGCEVLGVSVDSQFTHLAWINTPR,SAPDFTATAVVDGAFK,KGCEVLGVSVDSQFTHLAWINTPR,KEGGLGPLNIPLADVTK,LVQAFQYTDEHGEVCPAGWKPGSDTIKPNVDDSK	NDEGIAYR,EGGLGPLNIPLADVTK,QITVNDLPVGR,SLSQNYGVLK,SAPDFTATAVVDGAFK,HGEVCPAGWK,KEGGLGPLNIPLADVTK
IPI00116192.1	P20108	Prdx3	Thioredoxin-dependent peroxide reductase, mitochondrial		DYGVLLESAGIALR,GLFIIDPNGVVK	
IPI00555059.2	O08709	Prdx6	Peroxisredoxin-6		DINAYNGETPTEK,DLAILLGMMLDPVEK,VVDSLQLTGTPVATPVVDWVDSLQLTGTK,LPFPIIDDK,VVDSLK,VVFIKGPDK,FHDFLGDSWGILFQLTGTKPVATPVVDWK,LSILYPATTSHPR,VVFIKGPDKK,LSILYPATTRGR,LIALSIDSVEDHLAWSK	
IPI00132089.2	Q8C6A3	Prep	Putative uncharacterized protein		YVLLSIWEGCDPVNR,FIATLQYIVGR	VFLDPNTLSDDGTVALR,NILQLHDLTTGALLK,YSCHFKA,ITVPFLEQCPIR,YSPLHNVK
IPI00114069.1	P33610	Prim2	DNA primase large subunit	ISLDQIDSLSTK,EQDIMASSPSLSGIK,LQPLLNHLSHSYTGQDYSTQK,IPASGISQILDVVK		
IPI00223185.5	Q9R078	Prkab1	5'-AMP-activated protein kinase subunit beta-1	APEKEEFLAWQHDLEANDK,SQNNFVAILDPEGEHQYK,APPILPPHLLQVILNK,FKAPPILPPHLLQVILNK,KTDFEVFDALMVDSQK		
IPI00230005.3	P05132	Prkaca	Isoform 1 of cAMP-dependent protein kinase catalytic subunit alpha			DLKPENLLIDQQGYIQVTDFGFAKR,ILQAVNFPFLVK
IPI00120495.1	Q9JIF0	Prmt1	Isoform 1 of Protein arginine N-methyltransferase 1		GKVEEVELPVEK,ATLYVTAIEDR,ANKLDHVVTIK,DLDFITDLDFK,VEDLFTSPFCLQVK	TGFSTSPESPYTHWK,WLAPDGLIFPDR,NSMFHNR,VIGIECSSISDYAVK
IPI00229845.3	Q8CIG8	Prmt5	Protein arginine N-methyltransferase 5		VPEEEKETNVQVLMVLGAGR,IAVALEIGADLPSNHVIDR,GPLVNASLR,GYEDYLQSPQLPLMDNLESQTYEVFEKDPIK	LHNFHQLSAPK,VPLVAPEDLR,DLNCVPEIADTLGAVAK,ADIIVSELLGSFADNELSPECLDGAQHFLK,GPLVNASLR,AAILPTSIFLTK
IPI00654420.1	Q3UYN1	Prosc	Putative uncharacterized protein	LMAVPNLSMLETVDVSK,TFGENYVQELLEK		LMAVPNLSMLETVDVSKLADK,KGPTTEPLK,HGLLPSETIAVVEHIK
IPI00222760.1	Q99KP6-2	Prpf19	Isoform 2 of Pre-mRNA-processing factor 19			VAHPIRPKPPSATSIPAILK,ATVLTTER,VTSVVFHPSQELVFSASPDATIR,IWSVPNTSCVQVVR,QVASHVGLHSASIPGILALDLCPSDTNK,STEQILATLK

IPI00331170.1	Q922U1	Prpf3	U4/U6 small nuclear ribonucleoprotein Prp3	LQAEISQAAR,IEANAGQLYLTGVVVLH K,FEEVEEEPEVIPGPPSESPGMLTK,H GAEHYWDLALSESVLESTD,TPSSSQP ERLPIGNTIQPSQAATFMNDAIEK,AAD HLKPFLDDSTLR,LPIGNTIQPSQAATF MNDIAIEK,EKPSDEMSENTEFFDPR,QL SFISPPAPQPK,KHGAEHYWDLALSES VLESTD	VLGFSEPTVVTAALNCVVGK,CVLVW EGTAK
IPI00331424.8	Q8CCF0	Prpf31	Isoform 1 of U4/U6 small nuclear ribonucleoprotein Prp31		FPELESVLPNALDYIR,IMGVAGGLT NLSK
IPI00226155.3	Q4FK66	Prpf38a	Isoform 1 of Pre-mRNA-splicing factor 38A	YVLEEAQELEPR,YLEPLYNDYR	
IPI00458908.2	Q9DAW6	Prpf4	U4/U6 small nuclear ribonucleoprotein Prp4	LWIANYSLPR,SLNNFCSQIGDDR,ALG EPITLFGEGPAER	
IPI00130409.1	Q91YR7	Prpf6	Isoform 1 of Pre-mRNA-processing factor 6	PFLGMPAPLGYVPGLGR,LSQVSDSV SGQTVVDPK,DDEEADAIYAALDK,GYL TDLNSMIPTHGGDIINDIKK	
IPI00850200.1	A5D6Q4	Prpf8	pre-mRNA processing factor 8	FNTGPVGK,SGLNQIPNRR,FGDLI LK,DLILADYGK,ALDIPLVK,EAVV NTQELLDLLVK,ISLIQIFR,HDVNL GR,SLPVEEQPK,LGNVDAFQLAD GLQYIFAHVGQLTGMYSR,ATEPQ MVLFNLYDDWLK,FICISDLR,EVG IEFMDLYSHLVPVYDVEPLEK,DG PYITAEAEAVAVYTTTTHWLESR,T NHIYVSSDDIK,LLILALER,TFEGN LTTKPINGAIFIFNPR,GTYFPTWE GLFWEK,IDLTLNLR,YL TEHPDPN NENIVGYNNKK,LANQLLTDLVDD NYFYLFDLK,YWIDIQLR,IIHTSVW AGQK,ANPALYVLR,AVFWDIK,VY LGALK,NNVINYK,TAEEVAALIR, TILQHLSEAWR	EQSQLTATQTR,HLIYYR,FSPIPFPP LSYK,TDMIQALGGVEGILEHTLFK,V PGLPTPIENMILR,TEDPDLPAFYFD PLINPISHR,FPPVVFYTPK
IPI00153950.1	Q8R574	Prpsap2	Phosphoribosyl pyrophosphate synthetase-associated protein 2		IAIIVDDIIDDVDSFLAAETLK,VQI QESVR
IPI00831675.1	B2RW88	Prr19	Proline rich 19		GALESHTPQLPTKPCSPVGVQEP DLQSK,RNLVQESR
IPI00130391.1	Q9Z1R9	Prss1	protease, serine, 1	LGEHNINVLEGNEQFIDAAK,IQVRLGE HNINVLEGNEQFIDAAK,KTLNNDIMLIK ,LGEHNINVLEGNEQFIDAAKIIKHPNFN LGEHNINVLEGNEQFIDAAK R	
IPI00403650.2	P07146	Prss2	Anionic trypsin-2	LGEHNINVLEGNEQFVDSAK,TLDNDI MLIK	
IPI00321190.1	Q61207	Psap	Sulfated glycoprotein 1		TVVTEAGNLLK,LVSDVQTAVK

IPI00115257.1	Q99JF8	Psip1	Isoform 1 of PC4 and SFRS1-interacting protein	NMFLVGE GDSVITQVLNK,QVDTEEAG MVTAATASNVK,DFKPGDLIFAK,LPIFF FGTHETAFLGPK,FKNMFLVGE GDSVI TQVLNK,GFNEGLWEIDNNPK,LQRIHA EIKNSLK,KGFNEGLWEIDNNPK	VDEVPDGAVKPPTNK,DFKPGDLI FAK,LPIFFFGTHETAFLGPK	GYPHWPAR,LPIFFFGTHETAFLGP K
IPI00283862.6	Q9R1P4	Psm1	Proteasome subunit alpha type-1	IHQIEYAMEAVK,NQYDNDVTWSPQ GR	ILHVDNHIGISIAGLTADAR,DLEFT IYDDDDVSPFLDGLERPQR,FVF DRPLPVS,ETLPAEQDLTTK,TH AVLVALK	QGSATVGLK,FVFDRLPVS,THAV LVALK
IPI00420745.7	Q3UWT6	Psm2	Proteasome subunit alpha type	YNEDLEDAIHTAILTK,GYSFSLTTF SPSGK,PYLFQSDPSGAYFAWK,LAQQ YYLVYQEPIPTAQLVQR,LVQIEYALAA VAGGAPSVGIK,RYNEDLEDAIHTAI LTLK	YNEDLEDAIHTAILTK,GYSFS LTFSPSGK,LVQIEYALAAVAGG APSVGIK,LAQQYYLVYQEPIPTA QLVQR,RLTPTEVR	
IPI00331644.5	O70435	Psm3	Proteasome subunit alpha type-3		AVENSSTAIGIR,SNFGYNIPLK,AF EELSWVGELTK,LFNVDR,IYIVH DEVK	AVENSSTAIGIR,SNFGYNIPLK
IPI00277001.4	Q9R1P0	Psm4	Proteasome subunit alpha type-4		RPFVGSLLYIGWDK,LLDEVFFSE K,YLLQYQEPIPCQLVTALCDIK, VEIATLTR	LNEDMACSVAGITSDANVLTNELR, YLLQYQEPIPCQLVTALCDIK,VEIA TLTR
IPI00131407.1	Q9Z2U1	Psm5	Proteasome subunit alpha type-5		SSLILK,IVEIDAHIGCAMGLIADA K,LFQVEYAIK,PFVALLFGG VDEK,GVNTFSPEGR,EELEEVK DI,AIGSASEGAQSSLQEVYHK	
IPI00131845.1	Q9QUM9	Psm6	Proteasome subunit alpha type-6	ILTEAEIDAHLVALAER,IADISQVYTQN AEMR	LYQVEYAFK,HITIFSPEGR,ILTEA EIDAHLVALAERD,LLDSSTVTHLF K,AINQGGLTSVAVR	LLDSSTVTHLFK,AINQGGLTSVAVR
IPI00131406.1	Q9Z2U0	Psm7	Proteasome subunit alpha type-7	YIASLK,LTVEDPVTVEYITR,NYTDDAIE TDDLTIK,IVINR,YVAIEK,ALLEVVQS GGK,AITVSPDGHLFQVEYAEVKK, RPFGISALIVGDFDGTTPR	LTVEDPVTVEYITR,AITVSPDGH LFQVEYAEVKK,ALLEVVQSGG K,YVAIEKEKEENEK,GKDIVVLG VEK	LTVEDPVTVEYITR,ALLEVVQSGGK
IPI00113845.1	O09061	Psm1	Proteasome subunit beta type-1		LSEGFHSIHR,DVFISAAER,DVYT GDALR,FFPYVYNIIGGLDEEGK	AGGSASAMLQPLLDNQVGFK,GAV YSFDPVGSYQR
IPI00128945.1	Q9R1P3	Psm2	Proteasome subunit beta type-2		VIDKDGHNLENIAFPK,FILNLPTF SVR,NLADCLR,ILLLCVGEAGDTV QFAEYIQK	
IPI00314467.3	Q9R1P1	Psm3	Proteasome subunit beta type-3		DAVSGMGVIVHVEK,LNLYELK,N CVAIAADRR,LYIGLAGLATDVQTV AQR	FGPYTTEPVIAGLDPK,LYIGLAGLAT DVQTVQQR,NCVAIAADR
IPI00129512.3	P99026	Psm4	Proteasome subunit beta type-4			AIHSLWTR,QPVLSQTEAR,FQIATV TEK

IPI00317902.3	O55234	Psmb5	Proteasome subunit beta type-5		VEEAYDLAR,RGPGLYYVDSEGN R,FLHGVIVAADSR,GYSYDLKVE EAYDLARR,VSSDNVADLHDK,DA YSGGAVNLYHVR,ATAGAYIASQT VK	LLANMVYQYK,VSSDNVADLHDK,K VIEINPYLLGTMAGGAADCSFWER, ATAGAYIASQTVK
IPI00119239.2	Q60692	Psmb6	Proteasome subunit beta type-6		LAAIQESGVER,TTTGSYIANR,SG SAADTQAVADAVTYQLGFHSIEL NEPPLVHTAASLFK	QVLLGDQIPK,LAAIQESGVER,TTT GSYIANR,SGSAADTQAVADAVTYQ LGFHSIELNEPPLVHTAASLFK
IPI00136483.1	P70195	Psmb7	Proteasome subunit beta type-7	VTPLEIEVLEETVQTMDS,LPYVTMG SGSLAAMAVFEDK	YQGYIGAALVLGGVDVTGPHLYSI YPHGSTDK,VTPLEIEVLEETVQT MDS,LVSEAIAGIFNDLGSGSNI DLCVISK	
IPI00133428.3	P62192	Psmc1	26S protease regulatory subunit 4	VAAEHAPSIVFIDEIDAIGTK,IKDYLLME EEFIR,TMLELLNQLDGFDSR,DYLLME EEFIR,ESVELPLTHPEYEEEMGIKPPK, APQETYADIGGLDNQIQEIK,MTLADDV TLDDLIMAK,VHAVIGVLMDDTDPLVTV MK	VAAEHAPSIVFIDEIDAIGTK,KIEF PLPDEK,TMLELLNQLDGFDSR,A PQETYADIGGLDNQIQEIK,LPLVT PHTQCR	IFQIHTSR,APQETYADIGGLDNQIQ EIK,AVANQTSATFLR
IPI00270326.1	Q8BVQ9	Psmc2	Putative uncharacterized protein	FVNLGIEPPK,GVLLFGPPGTGK,ESDT GLAPPALWDLAADK,QVEDDIQQLLK, VLMATNRPDTLDPALMRPGR,FVVDLS DQVAPTDIEEGMR,TMLELINQLDGF PR,ALDEGDIALLK		FVNLGIEPPK,ESDTGLAPPALWDLA ADK,QLQSEQPLQVAR,YQIHIPLP PK
IPI00758064.1	A2AGN7	Psmc3	Proteasome (Prosome, macropain) 26S subunit ATPase 3	PGDLVGVNK,QTYFLPVIGLVDAEK,VD ILDPELLR,LAGPQLVQMFIGDGAK,MN VSPDVNYEELAR,APSIIFIDELDAIGTK, KMNVSPDVNYEELAR,QIQELVEAIVLP MNHK,TMLELLNQLDGFQPNQVQK,AM EVDERPTEQYSDIGGLDK,GATELTHE DYMEGILEVQAK	DSYLILETLPTHEYDSR,LKPGDLVG VNK	FENLGIQPPK,QTYFLPVIGLVDAEK, VDILDPELLR
IPI00126349.1	O35047	Psmc3ip	Homologous-pairing protein 2 homolog	IYFADQNQFDTVSDADLHGLDASIVAL TAK,ELTSALTTPEMQK,YLQEQNRPY SAQDVFGNLQK		
IPI00828513.1	Q6ZWN9	Psmc4	proteasome 26S ATPase subunit 4		EFLHAQEEVKR,ELLKPNASVALH K,AVAHHTTAAAFIR,IQSIPLVIGQF LEAVDQNTAIVGSTTGSNYYVR,E NAPAIIFIDEIDAIAIK,VVGSEFVQ K,RFDAQTGADR	ELLKPNASVALHK,IQDEIPALSVSR, PQTGLSFLGPEPEDLEDLYSR,AVA HHTTAAAFIR,LIFSTITSK,ENAPAIIFID EIDAIAIK
IPI00135640.1	P62196	Psmc5	26S protease regulatory subunit 8	FVVDVDKNIDINDVTPNCRVALR,EELQ LLQEQQSYVGEVVR,IEELQLIVNDK,H PELFEALGIAQPK	VSGSELVQK,IEELQLIVNDK,LEG GSGGDSEVQR	VIMATNRIDILDSALLR,NDSYTLHK, EELQLLQEQQSYVGEVVR,AVAHHT DCTFIR,TMLELLNQLDGFTEATK,FIG EGAR
IPI00125971.1	P62334	Psmc6	26S protease regulatory subunit S10B	ALQSVGQIVGEVLK,TLMELLNQMDGF DTLHR,EVIELPLTNPELFQR	ALQSVGQIVGEVLK,EVIELPLTNP ELFQR	ALQSVGQIVGEVLK,VVSSIVDK,A VASQLDCNFLK,IHIDLPEQAR,IHA GPITK,EVIELPLTNPELFQR

IPI00875405.1		Psm1	111 kDa protein		FTATASLGVHKK,YQPFKPLSIGGII ILK,DTSPGSAYQEGGGLYALGLI HANHGGDIIDYLLNQLK,VSTAVLS ITAK,AAVESLGFILFR,GLAVGIAL VMYGR,LLHVAVSDVNDVDR,FG AIIAQQILDAGGHNVITISLQSR,ME VDEAEK	FTATASLGVHKK,RVQGAAMITSAAG IISLLDEEEPQLK,DTSEDVEELVEPV AAHGPK,MITSAAGIISLLDEEEPQLK
IPI00222515.5	Q8BG32	Psm11	26S proteasome non-ATPase regulatory subunit 11	TYEAALETIQNMASK,YQEALHLGSQLL R,LQATLDMQSGIIHAAEEK,LYDNLLE QNLIR,EQSILELGSLLAK	AELRDDPIISTHLAK,YQEALHLGS QLLR,ALLVEVQLLESK,LYDNLLE QNLIR,VQIEHISSLIK,IMLNTPELV QALVSGK,EQSILELGSLLAK,TGQ AAELGGLLK	YQEALHLGSQLLR,YVRPFLNSISK,L YDNLLEQNLIR,TYHALSNLPK,VQIE HISSLIK,IMLNTPELVQALVSGK,TG QAAELGGLLK,EQSILELGSLLAK
IPI00318982.3	Q9D8W5	Psm12	26S proteasome non-ATPase regulatory subunit 12		SVVLYVILAPFDNEQSDLVHR,MA QLLDLSVDESEAFLSNLVVK,IYV EIER,LQEVIETLLSLEK	LNSLMSLVNK,LQEVIETLLSLEK,KL EEIPK
IPI00126048.2	Q9WVJ2	Psm13	Isoform 1 of 26S proteasome non-ATPase regulatory subunit 13		DLPVSEQQER,VLDLQQIK,ALSV GLVR,VNPLSLVEIILHVVR,AFTLG LAGLLGEGVFNFGELLMHPVLES LR,VELLMK,GSIDEVDKR,LNIGD LQATK	CAWGQQPDLAANEQQLR,VLDLQ QIK,LNIGDLQATK
IPI00113262.1	O35593	Psm14	26S proteasome non-ATPase regulatory subunit 14		VVIDAFR,LGGGMPGLGQGPPTD APAVDTAEQVYISSLALLK,AVAVV VDPIQSVK	LGGGMPGLGQGPPTDAPAVDTAE QVYISSLALLK,AVAVVVDPIQSVK
IPI00123494.3	Q8VDM4	Psm2	26S proteasome non-ATPase regulatory subunit 2		YGEPTLR,SHYVLYGLVAAMQPR, FGGSGSQVDSAR,VQQLLHICSE HFDSK,HLAGEVAK,GEAIEAILAA LEVSEPFRR,DKTPVQSQQPSAT TPSGADEK,AELATEEFLPVTPILE GFVILR,EIVPYNMAHNAEHEACD LLMEIEQVDMLEK,MLVTFDEELR PLPVSVR,VGQAVDVVGGQAGKPK	LNILDTLISK,VGQAVDVVGGQAGK,QL QDELEMLVER,FGGSGSQVDSAR,L AQGLTHLGGK,LVGSQEELASWGHE YVR,AELATEEFLPVTPILEGFVILR,F LRPHYGK,ELDIMEPK,VGQAVDVV GQAGKPK
IPI00314439.3	P14685	Psm3	26S proteasome non-ATPase regulatory subunit 3	LQLDSPEDAEIFIVAK,ISDDLQKISTQ NHR,HDADGQATLLNLLLR,FQTDGTY TLIIR,AKPPPGGEQEPAPQDVEM KEEAAAGSGSTGEGDGK,FNQVLDQF GEK,NYLHYSLYDQAEK,AKPPPGGEQ EPPPPAPQDVEMK,SVFPEQANNNEW AR,ELDTVTLEDIK,ELDTVTLEDIKEHV R,VYEFLDKLDVVR	LQLDSPEDAEIFIVAK,ISLADIAQK,SL MPYFLLTQAVR,FNQVLDQFGEK,K APQHTAVGFK	
IPI00381291.1	O35226-2	Psm4	Isoform Rpn10B of 26S proteasome non-ATPase regulatory subunit 4	SVMGALASQATK,AAAASAAEAGIATP GTEGERDSDALLK,AAAASAAEAGIA TPGTEGER,IIAFVGSPPVEDNEKDLVK, EKVNVDIINFGEVEEVTNEK,IIAFVGSPPV EDNEK,VNVDIINFGEVEEVTNEK		

IPI00128564.1	O35226	Psm�4	Isoform Rpn10A of 26S proteasome non-ATPase regulatory subunit 4	SVMGALASQATK,AAAASAAEAGIATP GTEDSDDALLK,IIAFVGSPPVEDNEKDL VK,EKVNVDIINFGEVEVNTTEK,IIAFVG SPVEDNEK,VNVDIINFGEVEVNTTEK		
IPI00457661.5	Q8BJY1	Psm�5	26S proteasome non-ATPase regulatory subunit 5		LLQAVEPIHLAR,IVENSEAVTEILNN AELLK,ALQSVVQAVPLHELK	
IPI00319965.3	Q99JI4	Psm�6	26S proteasome non-ATPase regulatory subunit 6		VNEIVETNRPSDK,LDIVFYLLR,G AEILEVLHSLPAVR VNEIVETNRPSDK,KGDLLLNR,SLTL GYMAEAFGVGVDFIDQELSR	
IPI00114667.1	P26516	Psm�7	26S proteasome non-ATPase regulatory subunit 7		TFEHTVSEIGAEAEVEVGVHLLR ,VVGVLLGSWQK,ITNQVHGLK,LP LPINHQIYQLQDVFNLLPDASLQEF INHQIYQLQDVFNLLPDASLQEFV VK,VVVHPLVLLSVVDHFNR,SVVAL K,SVVALHNLINNK,VVVHPLVLLS HNLINNK VVDHFNR	
IPI00856490.1		Psm�8	proteasome 26S non-ATPase subunit 8		LVLLELNFLPTTGTK,VAEFHTELE R	
IPI00124223.3	P97371	Psmē1	Proteasome activator complex subunit 1	TENLLGSYFPK,EPALNEANLSNLK,KG DEDDKGPCCGPNVCNEK,QLVHELDE AEYQEIR,APLDIPVDPVK		
IPI00649986.2		Psmē2	proteasome activator subunit 2 isoform 2		AFYAELYHIISSNLEK,TKVEAFQT TISK	
IPI00649191.2		Psmē3	Proteasome (Prosome, macropain) 28 subunit, 3	TVSEEAASYLDQISR,SNQQLVDIIEK	TVSEEAASYLDQISR,LLELDSFLK,IT SEAEDLVANFFPK	
IPI00396680.3	Q5SSW2	Psmē4	Isoform 1 of Proteasome activator complex subunit 4		FVEQLITFLSLEDR,SLFLIHK,LSTS SYSQVR,LLYELVSIPK,DIIPLVLEF LRPDR,AVQLQELWPGGLFWTR, EVIASVIR,VFNFSVSHIFETR,LDA ESDLQLAQIK,LPNSVVR,LFDDLA EK,FFVENLNHDAIVVR,LLINLLK	
IPI00321266.5	Q8R326	Pspc1	Isoform 1 of Paraspeckle component 1	LFVGNLPTDITEEDFKR,LFVGNLPTDIT EEDFK,NLSPVVSNELLEQAQFSGFPV EK,TLAEIAK,YGEPSEVFINR,GTIPGPP MGPGPAMGPEGAANMGTPMIPDNGA VHNDR,GAINMGDAFSPAPAGTQGGP PMMGMNMNMR,TGSETPQAPMSGVG PVSGGGGFGFR,TLAEIAKAELDGTILK ,PVIVEPMEQFDDDEDGLPEK,FAQPGT FEFEYASR	LFVGNLPTDITEEDFK,NLSPVVSNE LLEQAQFSGFPVEK,SFLKPGEK	
IPI00117146.1	Q99LS3	Psph	Phosphoserine phosphatase		NVQVFLISGGFR,SIVEHVAAK	
IPI00475378.4	Q92217	Ptbp1	polypyrimidine tract binding protein 1 isoform 1	NFQNIFFPSATLHLSNIPPSVSEDDLK,I AIPGLAGAGNSVLLVSNLNPER,VTPQ SLFILFGVYGDVQR	LPSDVTEGEVISLGLPFGK,NNQF QALLQYADPVSAQHAK,IIVENLFY PVTLDVLHQIFSK,IAIPGLAGAGN SVLLVSNLNPER,LSLDGQNIYNA CCTLR,FKGDNRSAGVPSR,KLPS DVTEGEVISLGLPFGK,VTPQSLFI LFGVYGDVQR	NFQNIFFPSATLHLSNIPPSVSEDDL K,LPSDVTEGEVISLGLPFGK,AQAA LQAVNSVQSGNLALAASAAAVDAG MAMAGQSPVLR,IIVENLFYPTLDV LHQIFSK,NNQFQALLQYADPVSAQ HAK,IAIPGLAGAGNSVLLVSNLNPE R,LSLDGQNIYNACCTLR

IPI00338458.2	Q3UK51	Ptcd3	Putative uncharacterized protein		ASGSTALAEVVK,LASAFSLPIGE SLAQR	IPALQILR,LLNTGDNRKLVGHDPLC K,EEVLMMLMAR
IPI00225419.1	P29351-2	Ptpn6	Isoform 2 of Tyrosine-protein phosphatase non-receptor type 6	ESLSQPGDFVLSVLNDQPK,YTVGGSE TFDSLTLVEHFK		
IPI00153702.2		Pthr2	Bcl-2 inhibitor of transcription isoform a		APDEDTLIQLLTHAK,TLGLTVSLI QDAGR,TVLGIGPGPVELIDEVTG HLK,VAQCASHAAVSAYK	
IPI00127174.4	Q3UEB3-2	Puf60	Isoform 2 of Poly(U)-binding-splicing factor PUF60	PSNIGQAQPIIDQLAEEAR,QTIAHQQQ QLTNLQMAAQR	IYVASVHQDLSDDDIK,AVTPPMP LLTPATPGGLPPAAAVAAAAATA K,VYVGSIIYELGEDTIR,LGLPPLT PEQQEALQK	PSNIGQAQPIIDQLAEEAR,AVTPPMP PLLTPATPGGLPPAAAVAAAAATAK ,LGLPPLTPEQQEALQK
IPI00330262.5	Q80U78	Pum1	Isoform 1 of Pumilio homolog 1	SMDELNHDFQALALEGR,GIFLGDQW R,SQDDAMVDYFFQR,DSAWGTS DHS VSQPIMVQR		
IPI00876148.1	Q69Z61	Pwwp2a	Isoform 1 of PWWP domain-containing protein 2A	SAGEAPSEKPSPEGPEESAGEVQDT SR,DKPDAMQLQSTTFQEGIEVK		
IPI00165881.3	Q8VI36	Pxn	Isoform Beta of Paxillin	PGSQLDSMLGSLQSDLNK,ELDELMA SLSDFK		
IPI00223055.2	Q3TIN2	Qars	Putative uncharacterized protein	EESLLLFEAMR,ATGVLLYDLVSR,SFL VSYIANK	AMAVLEPLQVVITNFPAPKPLDIR, LNLHYAVVSK,TAKDVVEKGEVA GQILSLMEQLR	AMAVLEPLQVVITNFPAPK,LFTLTA LR,SFLVSYIANKK,FNMGLLMGEAR, LNLHYAVVSK
IPI00114560.5	P62821	Rab1	Ras-related protein Rab-1A		EFADSLGIPFLETSK,SCLLLR,G AHGIIVVYDVTQESFNNVK,KVV DYTTAK,FADDTYTESYISTIGVDF K,TITSSYYR	
IPI00130118.1	P61027	Rab10	Ras-related protein Rab-10	VELQGK	NIDEHANEDVER,AFLTLAEDILR	
IPI00135869.3	P46638	Rab11b	Ras-related protein Rab-11B		GAVGALLVYDIAK,VVLIGDSGVG K,STIGVEFATR	
IPI00169485.3		Rab11fip1	RAB11 family interacting protein 1	GPGTMWSPTHVQVTVLQAR,IANSSL GTATIITENLISEALMK,AGDFQSQWDD DAHEDESSASDVMSHK,EEATFELPP LLSSGAAPAAAATLQLTVLHR		
IPI00126042.3	Q91V41	Rab14	Ras-related protein Rab-14		NLTNPNTVILIGNK,IIEVSGQK,GA AGALMVYDITR	
IPI00116770.1	P35293	Rab18	Ras-related protein Rab-18		ILIIGESGVGK,GAQGVILVYDVTR	
IPI00133706.1	Q9D1G1	Rab1b	Ras-related protein Rab-1B		GAHGIIVVYDVTQESYANVK,SC LLLR,TITSSYYR,FADDTYTESYIS TIGVDFK	SCLLLR,EFADSLGVPFLETSK
IPI00137227.1	P53994	Rab2a	Ras-related protein Rab-2A		EHGLIFMETSAC,YIIIGDTGVGK,F QPVHDLTIGVEFGAR,LQIWDTAG QESFR,TASNVEEAFINTAK,GAA GALLVYDITR,SCLLLQFTDK	
IPI00130489.1	Q6PHN9	Rab35	Ras-related protein Rab-35		LLIIGDSGVGK,GTHGVIVVYDVTS AESFVNVK	

IPI00116697.1	P35279	Rab6	Isoform 1 of Ras-related protein Rab-6A	GSDVIIMLVGNK,ELNVMFIETSAK ,LVFLGEQSVGK	
IPI00408892.2	P51150	Rab7	Ras-related protein Rab-7a	FQSLGVAFYR,EAINVEQAFQTIA R,VIIIGDMSGVVK,TLDSWRDEFLI QASPR,GADCCVLVFDVTAPNTF K,LVTMQIWDTAGQER,ATIGADF LTK	EAINVEQAFQTIA R,DPENFPFVVLG NK,ATIGADFLTK
IPI00903426.1	Q91WG2	Rabep2	Isoform 1 of Rab GTPase-binding effector protein 2	QMQVLLAQVQNSEQLLR,LQAELETSE QVQR,EIVLPMEQEITELK	
IPI00108774.1	P54728	Rad23b	UV excision repair protein RAD23 homolog B	LIYAGK,AVEYLLMGIPGDR,NENLAAN FLLQQNFDED,SNLFEDATSALVTGQS YENMVTEIMSMGYER,QIIQQNPSLLP ALLQQIGR	ILSDDTALK,QIIQQNPSLLPALLQQI GR
IPI00420855.1	Q6PFE3	Rad54b	DNA repair and recombination protein RAD54B		LCNHPCLLFSSVK,TIPFGLLICDEG HR,EIEILGTISSDDFNCSGK
IPI00225719.3	Q8C570	Rae1	mRNA export factor	MWDLNSNQAIQIAQHDAPVK,GLIVYQ LENQPSEFR	
IPI00453820.2	Q9EP71	Rai14	Ankycorbin	GADLSLVDSLGHNALHYSK, LSENAGI QNLLLSK	
IPI00828741.1	A2AU63	Raly	hnRNP-associated with lethal yellow long isoform	LPAPQEDTASEAGTPQGEVQTR,VLA GQTLDINMAGEPKPNRPK,VLAGQTL INMAGEPK,GYAFVQYANER,VFIGNLN TAVVK,KKGDSSSGGGGGSSGGGGSS SNVGGGSSGGSGSCSSSR	LPAPQEDTASEAGTPQGEVQTR, VFIGNLNTAVVK
IPI00130147.2	Q64012	Raly	Isoform 2 of RNA-binding protein Raly	LPAPQEDTASEAGTPQGEVQTR,VLA GQTLDINMAGEPKPNRPK,VLAGQTL INMAGEPK,GYAFVQYANER,VFIGNLN TAVVK	LPAPQEDTASEAGTPQGEVQTR, VFIGNLNTAVVK
IPI00321978.3	P34022	Ranbp1	Ran-specific GTPase-activating protein (Fragment)	FASENDLPEWK,TLEEDDEELFK,DSH EDHDTSTENADESNHDPQFEPIVSLP EQEIK,LEALSVR	FLNAENAQK,FASENDLPEWK,TL EEDDEELFK,AWVWNTHADFADE CPKPELLAIR
IPI00337844.4	Q9ERU9	Ranbp2	E3 SUMO-protein ligase RanBP2	KYISTYINVQER,SVFTTAASELANK,NG SGVVFQTSSTFTFADLAKSTSR	IIMELFSNIVPQTAENFRALCTGEK GFGFK,IAI AVL EETTR,ILDDSDSN TSVVQK,TESSDDIHFEPPVQMPE KVELVTGEEDEK
IPI00467338.4	P46061	Rangap1	Ran GTPase-activating protein 1		ILDPNSGEPAPVLSPTPTDLSTFLS FPSPEK,ILAAALTECHR,TAVLDAID ALMK,ELNLSFCEIK
IPI00138406.1	P62835	Rap1a	Ras-related protein Rap-1A	LVVLGSGGVGK,INVNEIFYDLVR, SALT VQFVQGIFVEK	

IPI00315488.1	Q9D019	Rars	Arginyl-tRNA synthetase, cytoplasmic		GFDILGIKPVQR,DFVSEQLTSLLV NGVQLPVLGDKEK,LQEVFGCAIR ,IYDALDITLIER,AYQCVLLQSK,F PEILQK,LFEFAGYDVLRL,YADLSH NR,IVFVPGCSVPLTIVK,YIDKVEI AGPGFINVHLR,VIVDFSSPNIAM,V TLVTHVGFVVLGEDK	DFVSEQLTSLLVNGVQLPVLGDK,V EIAGPGFINVHLR,AWNLICDVSR,IV FVPGCSVPLTIVK,AAYPDLENPPLIV TPSQPK
IPI00816935.4		Rasa3	RAS p21 protein activator 3			IFECQGLPIVNGQCDDPYATVTLAGP FR,GDQPLCNIPNIENILAVER
IPI00126133.1	Q61820	Rasl2-9	GTP-binding nuclear protein Ran, testis-specific isoform	FNVWDTAGQEK,SNYNFEKPFVWLAR		
IPI00719915.1	Q9CW46	Raver1	Isoform 1 of Ribonucleoprotein PTB-binding 1	GKPQPLLPPLLGPSGGDR,IPLNPNLNL HSLLPSSNLAGK,KDSAARAK,GLPGD VTNQEVHDLLSDYELK,GFAVLEYETA EMAEAAQER,SGGGSGGPLSHFYSGS PTSYFTSGLQAGLK,SMLAALIAAQATA LNR,RPAEPLPSPAVPGGGSGSNNG NK,TLYVHWTDAGQLTPALLHSR,LPP EPGLPDSYGFYPTDVGPR		QGLLGAPPAMPLLSGPALSTALLQL ALQSQSQNSQSQGQK,IPLNPNLNLH SLLPSSNLAGK,GLPKDSGPLPTPP GVSLLGEPK,LPPPEGLPDSYGFY YPTDVGPR,LFSHPR
IPI00122696.5	Q60972	Rbbp4	Histone-binding protein RBBP4	LNVDLSK,TPSSDVLVFDYTK,TVAL WDLR	TPSSDVLVFDYTK,TVALWDLR,IG EEQSPEDAEDGPELLFIHGGHT AK	LNVDLSK,HPSKPDPSGECNPD R,TPSSDVLVFDYTK,GEFGGFGS SGK,NTPFLYDLVMTHALEWPSLTA QWLPDVTREPGK,DFSIHR,VINEEY K
IPI00226384.2	Q3U3G1	Rbbp5	retinoblastoma binding protein 5			VLVCPMK,VTTGTSNTTAK
IPI00551482.3	P97868	Rbbp6	Isoform 1 of Retinoblastoma-binding protein 6			GYQVPVLGTPSLLGQSLLHGQLIPT TGPVR,LNYDVTFTDGLHISLCDLK, AMMSQSGHEYDPINYMK
IPI00122698.1	Q60973	Rbbp7	Histone-binding protein RBBP7	LNVDLSK,TPSSDVLVFDYTK,TVAL WDLR	HPAKPDPSGECNPDRL,TPSSDV LVFDYTK,TVALWDLR,NTPFLYDL VMTHALQWPSLTVQWLPEVTKP EGK,DYALHWLVLTGHTSDEQNH LVVAR,VINEEYK	LNVDLSK,IECEIK,HPAKPDPSGE CNPDLR,TPSSDVLVFDYTK,NTPFL YDLVMTHALQWPSLTVQWLPEVTK PEGK,GEFGGFGSVTGK,VINEEYK
IPI00116031.3	Q99KG3	Rbm10	Isoform 1 of RNA-binding protein 10	GFAFVEFSLQDATR,YGGISTASVDF EQPTR,ESATADAGYAILEK,AHLSENE LEALEK,KYGGISTASVDFEQPTR,NLN PHSTMSILGALAPYAVLSSSNVR,WM EANQHSLNILGQK	GFAFVEFSLQDATR,QNLEIHR	
IPI00404707.1	Q8C2Q3	Rbm14	Isoform 1 of RNA-binding protein 14		INVELSTK,AIEALHGHEL RPGR,K GPALAIQSGDK,ALVEMSR	
IPI00340815.3	Q0VBL3	Rbm15	RNA binding motif protein 15	SEEDYLVMIIVR,NSNFPSNMHLLQGD LQVASSLLVEGSGGK,LWVGGLGPW VPLAALAR,ISELGSQLSDEAVEDGLFH EFK	LWVGGLGPWVPLAALAR,SDGNA PSASTSSK	
IPI00170394.1	Q8JZX4	Rbm17	Splicing factor 45	NMVGAGEVDEDELEVETK,QSTVLAPVI DLK,SDSNPLTEILK		

IPI00421119.5	B2RY56	Rbm25	Isoform 1 of RNA-binding protein 25	LLAEGHPDPAELQR,QEPESEEEEEEE KQEKEEK	LLHDLQIGEK,GAIEVLIR,LLAEGH PDPDAELQR,EKEAAYQER,RFPV RFPVAPLIPYPLITK,FPVAPLIPYPLI APLIPYPLITK,LGASNSPGQPNSV TK K	
IPI00828892.1	Q5SFM8	Rbm27	Isoform 1 of RNA-binding protein 27	ELLDTLHDK,LQLGTPPPLAAR,EEI KEEVFQEPAAEEER,FGTIVNIQVAFK,A QTQRPNLIGLTSMDANPR		
IPI00378187.2	Q8BG13	Rbm3	Rbm3 protein	LFVGGNLFNTDEQALEDHFSSFGPISE VVVVK,GFGFITFTNPEHAMDAMR		
IPI00136573.1	Q9D3U4	Rbm31y	MCG53108	MFIGGLSQEMSK,MFIGGLSQEMSKQ VLLEYLSK,SRGFGFVLFK,GFGFVLFK		
IPI00225915.2	B2RUP0	Rbm34	RNA binding motif protein 34	VADGEALDVALSLAK,ESALASADLEE ELHQDQGGQR,LAALFSTAEPSAPPVF VPVPQETSK		
IPI00223371.2	Q5RJ10	Rbm39	RNA binding motif protein 39	GIAYVEFVDVSSVPLAIGLTGQR,DLEE FFSTVGK,IESIQLMMDSETGR,TDASS ASSFLDSELER,GIFEPFGRIESIQLM MDSETGR,MITAAYVPLPTYHNLFPDS MTATQLLVPSR,ALEQLNGFELAGR	NSAQGNVYVK,VLGVPIIVQASQAE K,CPSIAAAIAAVNALHGR	
IPI00130160.3	Q91YE7	Rbm5	Isoform 1 of RNA-binding protein 5	ESAAADAGFALFEK,LSEQELEALELR, GLPITITESDIR		
IPI00279153.3	Q8R388	Rbm6	Rbm6 protein	GAGLGYSHPLGSSEEIEGR,FQUESTS EGKPPLEDVFK,ILQNLDPFSDGK		
IPI00410937.1	Q9CWZ3-1	Rbm8a	RNA binding motif protein 8a isoform a	MREDYDSVEQDGEPPGQR,SVEGWI LFVTGVHEEATEEDIHDK,GYTLVEYET YK		
IPI00223425.2	Q8BP71	Rbm9	Isoform 1 of RNA-binding protein 9	ESEVELPVPAGADGPEPGLSK,GFG FVTFENSADADR,TEEAADGGMQNEP LTPGYHGFPAR		
IPI00118523.1	Q9DAE2	Rbmx12	Putative uncharacterized protein	GFAFVTFENPADAK,IIEVLLMK,DFAPS PR,LFIGGLNLETDEKGLTAFGK,RDP YLGPR,LFIGGLNLETDEK,GLETAFGK, GGSADGGYTGDFDLRPSR,VAQATK PVFESGR,RGPPPPR	GFAFVTFENPADAK,IIEVLLMK,R DPYLGPR,LFIGGLNLETDEK,VAQ ATKPVFESGR	
IPI00663587.1	Q91VM5	Rbmxrt	RNA binding motif protein, X chromosome retrogene	DVYLSR,RGPPPPR,DSYGGPPR,V EQATKPSFESGR,ALEAVFGK,LFIGGL NTETNEK,GFAFVTFESPADAK,REPLP SR,DRDYSDHPSGGSYR	VEQATKPSFESGR,REPLPSR	PSFESGR,VEQATKPSFESGR,EPL PSRR,REPLPSR
IPI00130885.1	O35479	Rbmxrt	Heterogeneous nuclear ribonucleoprotein G	DVYLSR,RGPPPPR,DSYGGPPR,Q ERGLPPSMER,ALEAVFGK,LFIGGLNT ETNEK,REPLPSR,GGYMDDGGYSMN FNMSSSR,DRDYSDHPSGGSYR,IVEII LMK	RGPPPPR,LFIGGLNTETNEK,AL EAVFGK,REPLPSR,IVEIILMK	
IPI00464101.2	Q4VGL6	Rc3h1	Roquin	FGAISR,LELQQLNHQISQQTQLR		

IPI00123762.2	Q6PFB2	Rcc1	Regulator of chromosome condensation 1	VVLTVSSGGQHTVLLVK,VVQVSA SHNTEPGLVLTGQQGDVGQLGLGE GDSHTAALTEDGR,LGLGEGAE SVLER,VVQVSAGDSHTAALTEDGR K,VFLWGSFR ,SMVPVQQLDAPVVK
IPI00222509.1	Q8BK67	Rcc2	Protein RCC2	NHTLALTDTGSVFAFGENK,LPEY TPR,LIEALSHEAIVLAACGR,GQL LIFGATNWDLIGR,TLDGIFSEQVA MGYSHSLVIAR,VAIFIEKTKDGGI YGCLSGVR,NLGQNLWGPFR,DVA LPVPNVVVR,IEYDCELVPR,TVVS CGANHRTLVLDSQK,AAGAAAITEPE GSCAAHSLITTEGK,VAIFIEK,DV HTK ACGANHTLVLDSQK,RVAIFIEK,A AGAAAITEPEHTK
IPI00137831.1	Q05186	Rcn1	Reticulocalbin-1	EEFTAFLHPEEFHMK,IDSDDGLVT TEELK,QATYGYLGNPAEFHDSSDHH TFK,NGDGFVDQDEYIADMFSHEDNG PEPDWVLSER,EIVVLETLEDIDK,HWIL PQDYDHAQAEAR,IVDRIDSDGDGLVT TEELK,VVRPDELGERPPEDNQSFQ YDHEAFLGK
IPI00474959.2	Q3TE95	Rcn2	Putative uncharacterized protein	QLHDDYFYHDEL,EALLGVQEDVDEYV K
IPI00221798.1	Q8BH97	Rcn3	Reticulocalbin-3	EELTAFLHPEEFPHMR,DIVVAETLEDL DK,MDLAGSDSGWVSLAELR,DIVVAE TLEDLDKNK,FRVADQDGD SMATR
IPI00226581.1	Q8C796	Rcor2	REST corepressor 2	GLDSQLISLK,DFGAIAEVIGNK,YSNKE LKGMLVWSPNHCVSDAK,REPLPSR
IPI00395067.1	P19426	Rdbp	Isoform 1 of Negative elongation factor E	MLVIPPGLSEEEEEALQK,GAFSPFGNII DLSMDPPR,KGNTLYVYGEDMTPTLR ,MESADQAVAELNGTQVESVQLK,SV WGSLAVQNSPK,ELGQDGEEAEAPGA GDGPPR,GNTLYVYGEDMTPTLR,SL SEQPVVDTATATEQAK
IPI00653921.2	Q3TS85	Rdx	radixin isoform a	EVWFFGLQYVDSK,IAQDLEMYGVNYF EIK,APDFVYFAPR,NQEQLAAELAEFT AK,IGFPWSEIR,FFPEDVSEELIQEITQ R KTQNDVLHAENVK,EIHKPGYLAN DR,QLERAQLENEKK,LFFLQVK,A PDFVYFAPR,NQEQLAAELAEFTA K,IGFPWSEIR,FVIKPIDK,RKPDIT EVQQMK
IPI00311103.1	Q9JJW6	Refbp2	Isoform 1 of RNA and export factor-binding protein 2	SLGTADVHFER,QQLSAEELDAQLDAY NAR,QQLSAEELDAQLDAYNARMDS, QQLSAEELDAQLDAYNAR,LLVSNLDFG VSDADIQELFAEFGTLK,LLVSNLDF GVSDADIQELFAEFGTLK,MDMSLDD IIK LLVSNLDFGVSDADIQELFAEFGT LK,LLVSNLDFGVSDADIQELFAE GTLK

IPI00120529.2	Q5U4B1	Rfc1	Rfc1 protein	GGIQELIGLIK,LTPTSVLDFYFGTESVQR ,GFYTSGAAPSVSARHALIMDEVDGM AGNEDR,ILDEDGLLDLIR,DALVRPLTS QGVGAQHVIK	
IPI00665571.2	Q8R323	Rfc3	Replication factor C subunit 3		IEHQITITPSK,VPAPSIEDICSVLSTV CR,YRPSSLAR
IPI00224572.4	Q5CZW9	Rg9mtd2	RNA (guanine-9-) methyltransferase domain containing 2	KEDLVYLTSDSPNVLK,EDLVYLTSDS PNVLK	
IPI00315100.1	Q9QUI0	Rhoa	Transforming protein RhoA		TCLLIVFSK,DQFPEVYVPTVFENY VADIEVDGK,LVIVGDGACGK
IPI00626173.3	Q6PR54	Rif1	Isoform 1 of Telomere-associated protein RIF1		FASDLIEPVTLDTPLSK,SQEDEISPV SGSFINLLQLEELGFR,YAHTLIT NK,SLIDNFALNPDILCSAK,KPDLEN AVHDSFVSVGK,TIGDLSTLTASEI VSSEGGGGTLDNLDK,LVIPLVVHS K,MVSSIIIDSLEVILSK,IVLSLEPLE AQK,ATALVYPEELKPILR,VSFADPI HPLISSPFFFSK,GEIHSVVDFEA YQAGLADDIDR,CVWSPLASPSTSIL LNVIIR,SGSEVLTLLLK K,LPQCLLVQVASELGAESNTTSPE K,SGSEVLTLLLK
IPI00471148.2	Q9CQS5	Riok2	Serine/threonine-protein kinase RIO2	LTNAGYDYLALK,KEDSLDVEVSASGY TK	
IPI00123915.1	Q9WTV7	Rlim	LIM domain interacting RING finger protein	NGRGSSGGGNSSGSSSSSSPSSS GESSESSSK,DNNLLGTPGESTEEELL R,MENSDSNDKGSQSAQRR	
IPI00330736.5		Rnf168	ring finger protein 168	NSLVNTDLWEIIQK,VYHLLVEEEISDR	
IPI00133880.2	Q9CQJ4	Rnf2	E3 ubiquitin-protein ligase RING2	TWELSLYELQR,SLHSELMCPICLDML K,SLRPDPNFDALISK,TPQEAITDGLI VVSRR	
IPI00313296.3	Q91VI7	Rnh1	Ribonuclease inhibitor		DISSAVQANPALTELSLR,LSLQNCG LTEAGCGILPGMLR,LGNAGIAALCP GLLLPSCK
IPI00453849.3	Q9D0L8	Rnmt	Isoform 1 of mRNA cap guanine-N7 methyltransferase	SILIGEILEK,LEECHSSAVAAHYNELQE VGLAK	
IPI00130664.5	O89026	Robo1	Roundabout homolog 1		KGVNYEIK,TVTFQCEATGNPQPA IFWRR
IPI00109401.1	Q9D706	Rpap3	RNA polymerase II-associated protein 3	VLELEPDNFEATNELR,QDFETVLLLEP GNK,RFDMAVMFMMSGPER,KELIEK,KL TNVLFNHLEK,GMDADYPNPVLPNTNR,I EAVSDTSAPQAQVGK	
IPI00124511.1	Q8VEE0	Rpe	Ribulose-phosphate 3-epimerase		IGPSILNSDLANLGAELR,MLDSGA DYLHLDVMDGHFVFNITFGHPVVES LRK
IPI00380313.3	Q7TND5	Rpf1	Ribosome production factor 1	AAAFPPGFSISEIK,DFTDLIVINEDR,GK DPTEHVPEIILNFTTR,DPTEHVPEIIL NFTTR,VYDETTVDPNDEEVAYDEAT DEFASYFNR,MFASLFPHPQFIGR	

IPI00121159.3	Q9JJ80	rpf2	Brix domain-containing protein 1	NLLIDFFR,RPNNLVIGR,NISQDTFGTT FGR,NITRPFEDQTSLEFFSK,MYDYHV LDMIELGIEK,KPYGVLYK,GGNANATV TQVLR,RPNNLVIGRMYDYHVLDMIEL GIEK,IELEEMGPSLDLVMR,LAGLEYV LHFTALNGK		
IPI00626239.3		Rpl11	Ribosomal protein L11	YDGIIIPGK,KNNFSDTGNFGFGIIEHI DLGIK,AEIIEK,VLEQLTGQTPVFSK	YDGIIIPGK,IAVHCTVR,NNFSDT GNFGFGIIEHIDLGIK,KNNFSDT GNFGFGIIEHIDLGIK,YDPSIGY GLDFYVVLGRPGFSIADK,PGFSI ADK,KLCLNICVGESGDR,YDPSIG IYGLDFYVVLGR,VLEQLTGQTPV FSK	YDGIIIPGK,IAVHCTVR,PGFSIADK, AEEIEK,YDPSIGYGLDFYVVLGR, VLEQLTGQTPVFSK
IPI00223217.6	P19253	Rpl13a	60S ribosomal protein L13a	YQAVTATLEEK,LAHEVGWK,GPYHFR, GMLPHK,GHLLGRLLAAIVAKQVLLGR,R GQAALER	YQAVTATLEEK,LAHEVGWK,KFA YLGR	YQAVTATLEEK,LAHEVGWK,VLDGI PPPYDK,GPYHFR,QVLLGRK,KFAY LGR,MVPAALK,CEGINISGNFYR
IPI00890140.1	Q569Z0	Rpl14	Ribosomal protein L14	RYVEVGR,VAYISFGPHAGK,LVAIVDVI DQNR,VAYISFGPHAGKLVAIVDVIDQN R,AAIAAAAAAAAAAKAKVPAK		
IPI00473728.1	Q9CWK0	Rpl14	Putative uncharacterized protein	RYVEVGR,VAYISFGPHAGK,AAIAAAA AAAAAK,LVAIVDVIDQNR,VAYISFGPH AGKLVAIVDVIDQNR	RYVEVGR,VAYISFGPHAGK,AAIA AAAAAAAK,LVAIVDVIDQNR,VA YISFGPHAGKLVAIVDVIDQNR,AL VDGPCTR	RYVEVGR,VAYISFGPHAGK,AAIAA AAAAAAAK,ALVDGPCTR,CMQLTD FILK
IPI00555113.2	P35980	Rpl18	60S ribosomal protein L18	ILTFDQLALESPK,TNRPPLSLSR,APGT PHSHTK,TAVVVGTVTDDVR,SQDIYLR ,GTVLLSGPR,RTNSTFNQVVLK,APGT PHSHTKPYVR,TNSTFNQVVLK	ILTFDQLALESPK,TNRPPLSLSR, SQDIYLR,TAVVVGTVTDDVR,GT VLLSGPR,APGTPHSHTKPYVR,T NSTFNQVVLK	ILTFDQLALESPK,TNRPPLSLSR,TA VVVVGTVTDDVR,GTVLLSGPR,TNST FNQVVLK
IPI00850221.1		Rpl19	Mus musculus ribosomal protein L19	LASSVLR,VWLDPNETNEIANANSR,TL SKEEETKK,HMYHSLYLK,LLADQAEA R,ILMEHIHK,KEEIIK	VWLDPNETNEIANANSR,RLASSV LR,LLADQAEAR	VWLDPNETNEIANANSR,HMYHSLY LK,LLADQAEAR,ILMEHIHK
IPI00139780.1	P62830	Rpl23	60S ribosomal protein L23	VHPAVVIR,LNRLPAAGVGDMMVATVK ,GSAITGPVAK,NLYIISVK,LPAAGVGD MVMATVK,KDGVFLYFEDNAGVIVNNK ,DGVFLYFEDNAGVIVNNK,IASNAGSIA	RKDGVFLYFEDNAGVIVNNK,GSA ITGPVAK,NLYIISVK,LPAAGVGD MVMATVK,ISLGLPVGAVINCADN TGAK,DGVFLYFEDNAGVIVNNK, KVHPAVVIR	VHPAVVIR,GSAITGPVAK,LPAAGV GDMVATVK,ISLGLPVGAVINCAD NTGAK,KVHPAVVIR
IPI00323806.4	Q3UW40	Rpl24	Putative uncharacterized protein	VFQFLNAK,AITGASLADIMAK,GQSEEI QK,KGQSEEIQK,QINWTVLYR	VFQFLNAK,AITGASLADIMAK,VE LCSFSGYK	AITGASLADIMAK,VFQFLNAK,CESA FLSK,VELCSFSGYK,QINWTVLYR
IPI00230623.8	P62911	Rpl32	60S ribosomal protein L32	GQILMPNIGYGSNK,AAQLAIR,KFLVH NVK,ELEVLLMCNKSYCAEIAHNVS FKGQILMPNIGYGSNK	ELEVLLMCNK,SYCAEIAHNVS VSSK	FLVHNVK,HMLPSGFR,SYCAEIAHN VSSK
IPI00222550.8	Q3U8M3	Rpl37a	Putative uncharacterized protein			YTCSFCGK,TVAGGAWTYNTTSAVT VK

IPi00111412.3	Q9D8E6	Rpl4	60S ribosomal protein L4	SNYNLPMHK,EAVQLLK,IEEVPPELPLV VEDK,GPCIIYNEDNGIIK,LEAAATALAT K,RNTILR,KLDELYGTWR,GHRIEEVPE LPLVVEDK,NIPGITLLNVSK,APIRPDIV NFMHTNLRK,QPYAVSELAGHQTSAES WGTGR,PLISVYSEK,IEEVPPELPLVVE DKVEGYK,APIRPDIVNFMHTNLR,GHRI EEVPELPLVVEDKVEGYK,NNRQPYAV SELAGHQTSAESWGTGR,MMNTDLS R,NIPGITLLNVSKLNILK,LDELYGTWR, KLEAAATALATK	LAPGGHVGR,RGPCIIYNEDNGIIK LAPGGHVGR,EAVQLLK,IEEVPPEL ,EAVQLLK,IEEVPPELPLVVEDK,GP LVVEDK,GPCIIYNEDNGIIK,LEAAAT CIIYNEDNGIIK,LEAAATALATK,YA ALATK,RNTILR,YAICSALAASALPAL ICSALAASALPALVMSK,KLDELY VMSK,NVTLPAVFK,NIPGITLLNVSK, GTWR,NIPGITLLNVSK,FCIWTES FCIWTESAFR,QPYAVSELAGHQTS AFR,PLISVYSEK,IEEVPPELPLVVE AESWGTGR,APIRPDIVNFMHTNLR DKVEGYK,APIRPDIVNFMHTNLR, K,PLISVYSEK,APIRPDIVNFMHTNL MMNTDLSR,KLEAAATALATK R,LDELYGTWR,KLEAAATALATK
IPi00311236.1	P14148	Rpl7	60S ribosomal protein L7	FKEANNFLWPFK,EANNFLWPFK,FGII CMEDIHEIYTVGK,AGNFYVPAEPK,K TTHFVEGGDAGNR,VPAVPETLK,VPA VPETLKK,SVNELIYK,ASINMLR,TTHF VEGGDAGNREDQINR,IALTDNSLIAR, KAGNFYVPAEPK,GINGVSPK,LAFVIR, TTHFVEGGDAGNR,KVLQLLR,IVEPYI AWGYPNLK,KVATVPGTLK,KVATVPG TLKK	EANNFLWPFK,FGIICMEDIHEIY TVGK,AGNFYVPAEPK,VPAVPET LK,SVNELIYK,ASINMLR,TTHFVE GGDAGNREDQINR,IALTDNSLIA R,KAGNFYVPAEPK,GINGVSPK,K LK,KVLQLLR,AGNFYVPAEPK,VPAV PETLK,SVNELIYK,VATVPGTLK,IAL TDNSLIAR,GINGVSPK VPAVPETLK,KVLQLLR,IVEPYIA WGYPNLK,KVPAVPETLKK
IPi00111695.1	Q9D8M4	Rpl71	60S ribosomal protein L7-like 1	IPLVPENLLK,TVPLTDNTVIEHLGR,T VEPYVTWGFPNLK,LAFVIR,KIPLVPE LLK	
IPi00137787.3	P62918	Rpl8	60S ribosomal protein L8	ASGNATVISHNPETK,GIVKDIHDPG R,AVVGVVAGGGGR,DIIHDPGR,AQLNI GNVLPVGTMPGEGTIVCCLEEKPGDR,K GAGSVFR,IDKPILK,AQLNIGNVLPVGT MPEGTIVCCLEEK	ASGNATVISHNPETK,AVVGVVA GGGR,RTOLFIAAEGIHTGQFVYC GK,KVGLIAAR,DIIHDPGR,KGAG SVFR,TELFIAAEGIHTGQFVYCG K,IDKPILK
IPi00113377.1	P47955	Rplp1	60S acidic ribosomal protein P1		ALANVNIGSLICNVGAGGPAPAA GAAPAGGAAPSTAAAPAEK,AA GVSVEPFWPGFLFAK
IPi00139795.2	P99027	Rplp2	60S acidic ribosomal protein P2	LASVPAGGAVAVSAAPGSAAPAAGSA PAAAEKKDEK,KILDSVIEADDDRLN K,LASVPAGGAVAVSAAPGSAAPAAG SAPAAAEKK,ILDSVIEADDDRLNK, KILDSVIEADDDR,ILDSVIEADDDR, YVASYLLAALGGNSSPSAK,NIEDVIAQ GVGK,LASVPAGGAVAVSAAPGSAAP AAGSAPAAAEK,MRYVASYLLAALGG NSSPSAK,KEESEESDDDMGFGLFD	ILDSVIEADDDRLNK,YVASYLLA ALGGNSSPSAK,NIEDVIAQGVGK ,LASVPAGGAVAVSAAPGSAAPA AGSAPAAAEK VAVSAAPGSAAPAAGSAPAAAEK, NIEDVIAQGVGK

IPI00309035.2	Q91YQ5	Rpn1	Dolichyl-diphosphooligosaccharide-- protein glycosyltransferase subunit 1	ISVVVETVYTHVLHPYPTQITQSE K,VACITEQVLTLVNKR,TVDLSSH LAK,AVTSEIAVLQSR,THYIVGYN LPSYEYLYNLGDQYALK,APDELH YTYLDTFGRPVIVAYK,NLVEQHIQ DIVVHYTFNK,LPVALDPGSK,FVD HVFDEQVIDSLTVK,TILPAAAQDV YYR,VACITEQVLTLVNK,LKTEGS DLCDR,ASSFVLALEPELESR,HF DETVNR,VTAEVVLVHPGGGSTS R,VIEVSHWGNIAVEENVDLK	LAHLGVQIK,TILPAAAQDVYYR,APD ELHYTYLDTFGRPVIVAYKK,VACIT EQVLTLVNK,AVTSEIAVLQSR,FPLF GGWK,HFDETVNR
IPI00889811.1		Rpn2	Putative uncharacterized protein	FPEEEAPSTVLSQSLFTP,K,YHVP VVVVPEGSTSDTQEQAILR,NPIL Y SIVGLSSLGVQVPDVK,LQVSNV LSQPLAQAAVK,YLAVLGTVTFLA GNR,NIVEEIEDLVAR,YIANTVELR ,LGKEETVLATVQALQTASHLSQQ ADLR,TPFSLVGNVFELNFK	EETVLATVQALQTASHLSQQADLR, FPEEEAPSTVLSQSLFTP,K,YHVPV VPEGSTSDTQEQAILR,NPILWNVA D VVIK,LQVSNVLSQPLAQAAVK,AS LDRPFTDLESAFYSIVGLSSLGVQV PDVK
IPI00128066.1	Q91WE3	Rpp25	Ribonuclease P protein subunit p25	SEEAPAGDGDEGGSPNSGPFADLAP GAVHMR,QLGYQPPNLSPGPSSPPTV STSK,NLLAFATASMAQPATR	
IPI00134346.1	O88796	Rpp30	Ribonuclease P protein subunit p30	YTISNALNLMQICK,GLGFELVYGPAIR, EIEKPIAVSELF TTLPIVQGK,GLVETAA HLGYSVVAINHIVDFK	
IPI00330367.5	Q80UU2	Rpp38	Ribonuclease P protein subunit p38	LAEGGQASAATLQPLK,EDIHFILQTL AK,TQGPTDSLETPESESQDNEILDTS FDDLTK	
IPI00123724.1	Q8VDS4	Rprd1a	Regulation of nuclear pre-mRNA domain- containing protein 1A	LPNVTGSHMHLPFAGDIYSED,IASLPV EVQEVSLLLEK,KLTFLYLANDVIQNSK,L TFLYLANDVIQNSK	
IPI00338515.4	Q9CSU0	Rprd1b	Isoform 1 of Regulation of nuclear pre- mRNA domain-containing protein 1B	SHIQSLPDL SLLPNVTGGLAPLPSAGD LFSTD,IASLPQEVQDVSLLEK,SVYGG EFIQQLK,EFESVLVDAFSHVAR,KLTFL YLANDVIQNSK,ALQDLENAASGDATV R,LTFLYLANDVIQNSK	
IPI00112448.1	P63325	Rps10	40S ribosomal protein S10	GPEGERPAR,SAVPPGADKKAEGAG SATEFQFR,DYHLHLPPEIVPATLR,EGV MVAK,GEADRDTYR,KAEAGAGSATEF QFR,HPELADK,IAIYELLFK,EGVMVAK, HFYWYLTNEGIQYLR,KDV HMPK,AEAGAGSATEFQFR	DYHLHLPPEIVPATLR,KAEAGAGS ATEFQFR,HPELADK,IAIYELLFK, NVPNLHVMK,DYHLHLPPEIVPATLR,I A IYELLFK,AEAGAGSATEFQFR

IPI00117569.3	Q9DB79	Rps11	Putative uncharacterized protein	NIGLGFK,ILSGVVTK,DYLYHIR,TIVIR,VLLGETGK,RDYLHYIR	EAIEGTYIDKK,ILSGVVTK,DYLYHIR,VLLGETGK,DVQIGDIVTVGECRPLSK,EAIEGTYIDK,RDYLHYIR	NIGLGFK,CPFTGNVSIR,NMSVHLSPCFR,ILSGVVTK,DYLYHIR,QPTIFQNK,VLLGETGK,EAIEGTYIDK,RDYLHYIR,DVQIGDIVTVGECR
IPI00322562.5	P62264	Rps14	40S ribosomal protein S14	ADRESSPYAAMLAQDVAQR,IEDVTPIPSDSTR,TKTPGPGAQSALR,ELGITALHIK,TPGPGAQSALR,DESSPYAAMLAQDVAQR	IEDVTPIPSDSTR,TKTPGPGAQSALR,ELGITALHIK,TPGPGAQSALR	IEDVTPIPSDSTR,ELGITALHIK,TPGPGAQSALR
IPI00319231.4	P62843	Rps15	40S ribosomal protein S15	HGRPGIGATHSSR,TFNQVEIKPEMIGHYLGEFSITYKPKVK,KQHSLLK,KEAPPEKPEVVK,GVDLDQLDMSYEQLMQLYSAR,TFNQVEIKPEMIGHYLGEFSITYK,DMIIPEMVGSMVGVYNGK,PGIGATHSSR	TFNQVEIKPEMIGHYLGEFSITYKPKVK,KEAPPEKPEVVK,GVDLDQLDMSYEQLMQLYSAR	HGRPGIGATHSSR,TFNQVEIKPEMIGHYLGEFSITYKPKVK,GVDLDQLDMSYEQLMQLYSAR,DMIIPEMVGSMVGVYNGK
IPI00465880.4	P63276	Rps17	40S ribosomal protein S17	LLDFGSLSNLQVTQPTVGMNFK,LGNDFHTNKR,LGNDFHTNKR,RDNYVPEVSA LDQEIIIVDPDTK,VIIEK,DNYVPEVSA LDQEIIIVDPDTK	LGNDFHTNKR,LLDFGSLSNLQVTQPTVGMNFK,VCEEIAIIPSK,LGNDFHTNKR,RDNYVPEVSA LDQEIIIVDPDTK,VCEEIAIIPSK,DNYVPEVSA LDQEIIIVDPDTK,IAGYVTHLMK	
IPI00317590.5	P62270	Rps18	40S ribosomal protein S18	HFWGLR,LREDLER,RYAHVVLRLIPDWFLNR,VITIMQNPR,YSQVLANGLDNKR,AGELTEDEVER,KADIDLTK,IAFAITAIK		VLNTNIDGR,YAHVVLRLIPDWFLNR,LFWGLR,FQHILR,VITIMQNPR,YSQVLANGLDNKR,KADIDLTK,IAFAITAIK
IPI00875584.1		Rps19	Rps19 protein	GGAGVGSMTK,IAGQVAAANK,VLQALEGLK,DVNQQEFVR,MVEKDQDGGRR,VLQALEGLK,DVNQQEFVRALAAFLKK,HKELAPYDENWFYTR,ELAPYDENWFYTR,LKVPEWVDTVK,HLYLR,ALAAFLK	IAGQVAAANK,RVLQALEGLK,LKVPEWVDTVK	GGAGVGSMTK,IAGQVAAANK,VLQALEGLK,DVNQQEFVR,VPEWVDTVK,ELAPYDENWFYTR,NGVRPSHFSR
IPI00323819.3	P60867	Rps20	40S ribosomal protein S20	TPVEPEVAIHR,LIDLHSPSEIVK	QITSISIEPGVEVEVTIADA,TPVEPEVAIHR,LIDLHSPSEIVK,VCADLIR	TPVEPEVAIHR,LIDLHSPSEIVK,VCADLIR
IPI00132950.1	Q9CQR2	Rps21	40S ribosomal protein S21	MGESDDSILR,FNGQFK,ADGIVSK,DHASIQMNVAEVDR	TYGICGAIR,RMGESDDSILR,MGESDDSILR,DHASIQMNVAEVDR	
IPI00131357.7	Q9CZI5	Rps23	Putative uncharacterized protein	GHAVGDIPGVR,KGHAVGDIPGVR,KAHGLTALK,ANPFGGASHAK,VANVSLALYK	GHAVGDIPGVR,AHLGTALK,ITAFVPNDGCLNFIENDEVLVAGFGR,KGHAVGDIPGVR,ANPFGGASHAK,VANVSLALYK	GHAVGDIPGVR,AHLGTALK,ANPFGGASHAK,QPNSAIR,ITAFVPNDGCLNFIENDEVLVAGFGRK,VANVSLALYK
IPI00465568.5	Q9CQK2	Rps24	40S ribosomal protein S24	KFMTNR,QMVIDVLHPGK,HGLYEK,TTDPVIFVFGFR,KQMVIDVLHPGK,TTGFGMIYDSLIDYAK	QMVIDVLHPGK,TTDPVIFVFGFR,TTGFGMIYDSLIDYAK	QMVIDVLHPGK,TTGFGMIYDSLIDYAK
IPI00137735.1	P62852	Rps25	40S ribosomal protein S25	DKLNNLVLFDK,AALQELLSK,LNNLVLFDK,LITPAVVSER,GSLARAALQELLSKGLIK	DKLNNLVLFDK,AQVIYTR,AALQELLSK,LNNLVLFDK,LITPAVVSER	AALQELLSK,LNNLVLFDK,LITPAVVSER
IPI00124709.3	Q6ZWY3	Rps27I	40S ribosomal protein S27-like protein	LVQSPNSYFMDVK,DLLHPSLEEEK	LVQSPNSYFMDVK,DLLHPSLEEEK,LTEGCSFR	

IPI00134599.1	P62908	Rps3	40S ribosomal protein S3	ELAEDGYSGVEVR,GGKPEPPAMPQP VPTA,TQNVLGEK,LLGGLAVR,VTPT TEIIILATR,FIMESGAK,KPLPDHVSIVE PK,FVADGIFK,DEILPTTPISEQK,TEIIIL ATR,FVDGLMIHSGDPVNYVDTAVR, KPLPDHVSIVEPKDEILPTTPISEQK,KF VADGIFKAELNEFLTR,FGFPEGSVELY AEK,KFVADGIFK,AELNEFLTR,ELTAV VQK	ELAEDGYSGVEVR,GGKPEPPAM PQPVPPTA,GLCAIAQAESLR,LLGG LAVR,KPLPDHVSIVEPK,FVADGI FK,DEILPTTPISEQK,TEIIILATR,F VDGLMIHSGDPVNYVDTAVR,F GFPEGSVELYAEK,KFVADGIFK,A ELNEFLTR,GCEVVVSGK,ELTAV VQK	ACYGVLR,ELAEDGYSGVEVR,GGK PEPPAMPQPVPPTA,GLCAIAQAESL R,LLGGLAVR,TQNVLGEK,IMLPWD PSGK,KPLPDHVSIVEPK,FVADGIFK ,DEILPTTPISEQK,FGFPEGSVELY EK,AELNEFLTR,GCEVVVSGK,ELT AVVQK
IPI00331092.7	P62702	Rps4x	40S ribosomal protein S4, X isoform	GNKPWISLPR,DANGNSFATR,GIPHLV THDAR,HWMLDKLTGVFAPR,LTIAEE R,HWMLDK,TDITYPAGFMDVISIDK,LS NIFVIGK,ERHPGSFDVVHVK,YPDPLIK ,HPGSFDVVHVK,IGVITNR,LTGVFAPR ,VNDTIQIDLETGK,KIFVGTK	GNKPWISLPR,GIPHLVTHDAR,LT IAEER,LRECLPLIIFLR,LIYDTK,EC LPLIIFLR,TDITYPAGFMDVISIDK, LSNIFVIGK,ERHPGSFDVVHVK,Y PDPLIK,HPGSFDVVHVK,YALTGD EVK,YALTGDEVK,IGVITNR,FDT GNLCMVTGGANLGR,LTGVFAPR ,VNDTIQIDLETGK,KIFVGTK	GNKPWISLPR,DANGNSFATR,GIPH LVTHDAR,HWMLDKLTGVFAPR,LT IAEER,LIYDTK,ECLPLIIFLR,TDITY PAGFMDVISIDK,LSNIFVIGK,PWISL R,DVISIDK,YPDPLIK,HPGSFDVVHV K,YALTGDEVK,FDTGNLCMVTGGA NLGR,IGVITNR,LTGVFAPR,HWML DKLTGVFAPRPSTGPHK,VNDTIQID LETGK,KIFVGTK
IPI00471047.2	Q3V1Z5	Rps4y2	RIKEN cDNA 1110033J19	GNKPWISLPR,TDVAYPAGFMDVISIDK ,GIPHLVTHDAR,HWMLDKLTGVFAPR, LTIAEER,HWMLDK,LSNIFVIGK,ERHP GSFDVVHVK,ITDAIKFDTGNLCMVTG GANLGR,YPDPLIK,HPGSFDVVHVK,Y ALTGDEVK,IGVITNR,LTGVFAPR		
IPI00857345.1		Rps5	20 kDa protein	LTNSMMMHR,WSTDDVQINDISLQD YIAVK,HAFEIIHLLTGENPLQVLVNAIIN SGPR	TIAECLADELINAAK,KAQCPIVER, RVNQAIWLLCTGAR,YLPHSAGR, AQCPIVER,HAFEIIHLLTGENPLQ VLVNAIINSGPR,VNQAIWLLCTGA R	TIAECLADELINAAK,YLPHSAGR,QA VDVSPR,AQCPIVER,VNQAIWLLC TGAR
IPI00125521.3	P97461	Rps5	40S ribosomal protein S5	LTNSMMMHR,WSTDDVQINDISLQD YIAVK,HAFEIIHLLTGENPLQVLVNAIIN SGPR,GSSNSYAIK		
IPI00648998.3	Q505N6	Rps6ka1	ribosomal protein S6 kinase polypeptide 1	FTLSGGNWNTVSETAK,GAMAATYSA LNSSKPTPQLK,LPQSLSHQDLQLVK ,DLKPENILLDEEGHIK		TTQAPLHSVQQLHGK,KDEAILK,L GMPQFLSTEASLLR
IPI00136984.1	P62082	Rps7	40S ribosomal protein S7	LTGKDVNFEPFQ,AAQNNVEHK,H VVFIAQR,DVNFEPFQ,TLTAVHDAI LEDLVFPSEIVGK,ELNITAAK,TLTAVH DAILEDLVFPSEIVGK,IVKPNGEKPD EFESGISQALLELEMNSDLK,VETFSG VYK,AIIIFVVPQLK,KAIIFVVPQLK	HVVFIAQR,DVNFEPFQ,TLTAV HDAILEDLVFPSEIVGK,ELNITAAK,I VKPNGEKPDFESGISQALLELEMN SDLK,ILPKPTR,AIIIFVVPQLK,VET FSGVYK	HVVFIAQR,DVNFEPFQ,TLTAV HDAILEDLVFPSEIVGK,ELNITAAK,I VKPNGEKPDFESGISQALLELEMN SDLK,ILPKPTR,AIIIFVVPQLK,VET FSGVYK

IPI00420726.3	Q6ZWN5	Rps9	40S ribosomal protein S9	QVVNIPSFIVR,LFEGNALLR,LIGEYGLR,IGVLDEGKMKLDYILGLK,RLQTQVFK,MKLDYILGLK,SPYGGGRPGR,KQVVNIPSFIVR,IEDFLER,LDYILGLK,LIGEYGLR,LQTQVFK,KTYVTPR,RLQTQVFK,IGVLDEGK,RLDQELK,ELLTLDEK,IGVLDEGK	SPYGGGRPGR,KQVVNIPSFIVR,IEDFLER,LFEGNALLR,HIDFSLR,LDYILGLK,LIGEYGLR,LQTQVFK,KTYVTPR,RLQTQVFK,IGVLDEGK,MKLDYILGLK	QVVNIPSFIVR,IEDFLER,LFEGNALLR,HIDFSLR,LDYILGLK,LIGEYGLR,LQTQVFK,RLQTQVFK,ELLTLDEK,IGVLDEGK
IPI00120035.2	Q149F1	Rpusd2	RNA pseudouridylate synthase domain-containing protein 2	VLRQDPLPQDLVMFLHALR,QDPLPQDLVMFLHALR,QVPESGDQAQGGEGQLPSNGEQTPAPVADSGK,IDGIAEAAPQHLDTPEK		
IPI00123602.2	Q9JKY0	Rqcd1	Cell differentiation protein RCD1 homolog		LTSLGVIGALVK,TVATFILQK	LTSLGVIGALVK,VCNALALLQCVASHPETR
IPI00121149.1	Q99PL5	Rrbp1	Isoform 3 of Ribosome-binding protein 1	VEPAVSSIVNSIQVLASK,LLATEQEDA AVAK		
IPI00331302.4	Q6NZB3	Rrm1	Ribonucleoside-diphosphate reductase		SAGGIGVAVSCIR,VIQGLYSGVTTVELDTLAAETAATLTTK,GAFIGQSQSLNIHIAEPNYGK,ALKEEEEEKER	VIQGLYSGVTTVELDTLAAETAATLTTK,IAVSNLHK,RVLSGEFQIVNPHLLK
IPI00110856.2	P56183	Rrp1	Isoform 1 of Ribosomal RNA processing protein 1 homolog A			LAGNEQVTR,QIEQLELLTTEILNPSQAPSGVK
IPI00420344.1	Q6P5B0	Rrp12	RRP12-like protein		LSVLDLVALAPYSDEAAISK,APAHHPAAVSTAK,VAVVMDVVHLAK,LGFFTTYFLPLATTLK	VTVCQALR,AHINLVR,YQAGGSGIHRPVAK,AAQHGVCSVLK,IYDTLQWQIWTLLPGFCTRPTDVAASF,KGFFTTYFLPLATTLK,FFGTAVTCLLSPHSQVAAAATQTLK
IPI00133594.3	Q9D1C9	Rrp7a	Ribosomal RNA-processing protein 7 homolog A	KAGGHEESIPSPPGYSAVPVK,WISDYEDSVLDPEALR,AGGHEESIPSPPGYS AVPVK,PVPGFQVAYVVFQK,MEVDAF MEAYDK,TVELQEKPDLAESPTPEK		
IPI00653834.2		Rrp8	Putative uncharacterized protein			YLNEQLYSGPSSAAR,VALPALSENVHSSVPAQRPR
IPI00128256.1	Q91WM3	Rrp9	U3 small nucleolar RNA-interacting protein 2	KTEEEEEEELEETAQEK,TEEEEEEELEETAQEK,FSSAGDFLVAGVGEHR,VWNAAENSYVETLFGHQDAVAALDALS R		RPLALQR,QLDPLCDIPLVGFINSLK,WNAAENSYVETLFGHQDAVAALDALS
IPI00318725.4	Q9CYH6	Rrs1	Ribosome biogenesis regulatory protein homolog	VEEAVVAR,DDTKEWLIEVPGSADPME DQFAK,EWLIEVPGSADPMEQFAK,F QPLFGDFAAEK,TNLVWDEASGQWR, ELELEFDLGNLLASDR,ITVHKELELEF DLGNLLASDR,DNTQLLINQLWR,QAG PSPEAELR,VEELLAKAEQEEAEKLQR, KFQPLFGDFAAEK		

IPI00226149.6	Q3UL54	Rsl1d1	Putative uncharacterized protein	SKKATSLLTQSGGLASSAPAK,VPVSVN LLAK,KALLATETPEASAPGTSKG,KAT SLLTQSGGLASSAPAK,AVEVISNR,DEF DSPEQTEGFYK,KPEASSFSTPR,LLG SFEVFITDAR,GSASESPSASVAEATTT DVQVTPTALLQLDR,SVSLPIFSSFVTS QDENAVSLR,KDVQEFR,KVPVSVNLL AK,KHGVNTISQIIPFK,KAVEVISNR,HG VNTISQIIPFK,HFYQR,ALLATETPEAS APGTSKG,IGHTGMETEHIVDNILAVSE MLSEK,MQENITGK,RHLP SHIGR,ATS LLTQSGGLASSAPAK	VPLPHSILSESSDVCLFTK,KAVEV ISNR,ALLATETPEASAPGTSKG,K PEASSFSTPR,LLGSFEVFITDAR	SVSLPIFSSFVTSQDENAVSLR,HLP SHIGR,KVPVSVNLLAK,HGVNTISQII PFK,CITGTVLNISK,HFYQR,ALLATE TPEASAPGTSKG,AVEVISNR,KASN TPR,MQENITGK,GSASESPSASVAE ATTTDVQVTPTALLQLDR,ATSLLTQ SGLASSAPAK
IPI00469392.2	Q99P72	Rtn4	Isoform 1 of Reticulon-4		VPLLLPNVSALESQIEMGNIVKPK, GSGSVDETLFALPAASEPVISSA EKIMDLK,SPAASAPSLPPAAAVL PSK	KPAAGLSAAPVPPAAAPLLDFSSDS VPPAPR,YSNSALGHVNSTIK,VPLLL PNVSALESQIEMGNIVKPK,QPSWE RSPAASAPSLPPAAAVLPSK,GPLP AAPPTAPER,SPAASAPSLPPAAAV LPSK
IPI00856593.1	Q3UJN2	Ruvb1	Putative uncharacterized protein	PQGGQDILSMMGQLMK,EHVVEISELF YDAK,EIIQDVTLHDLVDANAR,PQGGQ DILSMMGQLMKPK,YSVQLLTPANLLA K,LDPSIFESLQK,VEAGDVIYIEANSGA VK,TALALAIQELGSK	EACGVIVELIK,YSVQLLTPANLLA K,AVLLAGPPGTGK,ILADQQDK,T ALALAIQELGSK,ALESSIAPIVIF ASNR	PQGGQDILSMMGQLMKPK,YSVQL LTPANLLAK,LDPSIFESLQK,TISHVII GLK,AQTEGINISEEALNHLGEIGTK, TALALAIQELGSK,GTEDITSPHGIP LDLLDR
IPI00123557.3	Q9WTM5	Ruvb2	RuvB-like 2		GTEVQVDDIKR,DKVQAGDVID K,IRCEEEDEVSEDAYTVLTR,T QGFLALFSGDTGEIK,IKEETEIIEG EVVEIQIDRPATGTGSK,MIESLTK ,LLIVSTSPYSEK,KGTEVQVDDIK R,AVLIAGQPGTGK,AAGVVLEMIR ,EVVHTVSLHEIDVINSR	
IPI00121427.1	P14069	S100a6	Protein S100-A6			NKDQEVNFQEYVAFLGALALIYNEA LK,DQEVNFQEYVAFLGALALIYNEA LK,LQDAEIAR
IPI00129105.2	Q9R1T2	Sae1	Isoform 1 of SUMO-activating enzyme subunit 1		TAPDYFLLQVLLK,YCFSEMAPVC AVVGGILAQEIVK,NLILAGVK,VDT EDVEK,VSQGVEDGPEAK,NDVF DSLGISPDLLPDDFVR,GLTMLDH EQVSPEDPGAQFLIQTGSVGR,E ALEVDWSGEK	KPESFFTK,NDVFDLGLISPDLLPDD FVR
IPI00605227.3		Safb2	MKIAA0138 protein	ADTVNQLHAFDDSK,EPVGLEEPVEQ SSTAAQLPEATSQELVR,MAEPGTGS GDPAFGPGASESGTRR,VTLADEEAP MEPENEK,SEPVKEEGSELEQPFQA TSSVGPDR,YGQDGVVILQSSQDR,NL WVGLSSSTR		

IPI00342267.1	Q6P5E3	Sall1	sal-like 1		TSANPLTTLSSHLSQQLAVAAGLAQ SLASQSANISGVK,LQQLVENIDK
IPI00475164.2	Q8BX22	Sall4	Isoform 1 of Sal-like protein 4	ANPQLLAEFQDK,TEATQPSTPQDISY LPK	KFTNAVMLQQHIR,ASNPALSLDALK ,VQVNMWAAHALHSGV,ALSSHVSQ QVSVSQQVSAVALLSQK,LQQLVE NIDK
IPI00875198.1		Samhd1	SAM domain- and HD domain-containing protein 1 isoform 1	LTDNIFLEVLHSTDPQLSEAQSILR,ISN LIDIMITDAFLK,AEDFIVDVINVDYGME DK,IAGSFLPFLDEDRLLEDLGVSSLEER	
IPI00225307.1	Q8C483	Sars	Seryl-aminoacyl-tRNA synthetase, isoform CRA_b		YLIATSEQPIAALHR,EAVGDDESVP ENVLNFDDLADALAALK
IPI00323674.6	Q9Z315	Sart1	U4/U6.U5 tri-snRNP-associated protein 1	LASEYLSPEEMVTFK,TLGEIPTYGLAG NR,KPDYLPYAEDESVDLLAQKPR,A DDLLPLGDQTQDGFGR,TLGEDDP WLDDTAAWIER,DLQGLTVEHAIDSFR, GVLQDGEDVLVNVNMVVK,MSSSDTP LGTVALLQEK,EPPVAADVINPMALR,Q HQDFSASSTTILDEEPIVNR,EAGTKEE PVAADVINPMALR,EEQEELMDFER	
IPI00136151.4	P70122	Sbds	Ribosome maturation protein SBDS	VVESEDYSQQLEIVCLIDPGCFR,GSLE VLSLKDVEEGDEKFE,DLDEVLQTHSV FVNVSK	DIHYSVKPNK,LTNVAVVR
IPI00407413.2	B2RPU8	Scand3	SCAN domain containing 3		RAPAAQPPAAAAPSAVGSPAAAP R,APAAQPPAAAAPSAVGSPAAA PR
IPI00224219.1	Q8BRF7	Scfd1	Isoform 1 of Sec1 family domain- containing protein 1		FGQDIISPLLSVK,LEDIANAALAASA VTQVAK
IPI00121931.1	Q8VCA8	Scrn2	Secernin-2	GHQAALGLMEDEQEQAQQLR,GLLTG EQTPPAQGLGSLFQAFVER	
IPI00462855.3	Q9EQC5	Scyl1	N-terminal kinase-like protein	DPFAPSRVAGVLGFAATHNLYSMDDC AHK,GDPFAALSVR,LESVSEDPTQLA EVEK	
IPI00659713.1	Q3TKY6	Sdccag10	Peptidyl-prolyl cis-trans isomerase SDCCAG10	NFSLLSFGEEAEVEEVEVNR,TTAGDI DIELWSK,SSHLLKDDPHLSSVPAVE SEK,VEEGREEEEAAPDGAVAEYR,VT GDTVYNMLR,ETAIKVEEGREEEEAAP DGAVAEYR,DASMQSDTFEIIDPR,E DQTLALLSQFK	
IPI00123852.6	Q9DCT5	Sdf2	Stromal cell-derived factor 2	AMEGIFMKPSELLR,HSSTDVLLSVTG EQYGRPIGQK,HSSTDVLLSVTGEQY GR,YGSGSGQQSVTVGTVSVDSDNSY WR	
IPI00227657.6	Q9ESP1	Sdf2l1	Stromal cell-derived factor 2-like protein 1	FQHVGTSVFLSVTGEQYGNPIR,YGSG SGQQSVTVGVEESDDANSYWR,AMEGI FIKPGADLSTGHDEL	

IPI00117754.1	Q61112	Sdf4	Isoform 1 of 45 kDa calcium-binding protein	NHEELKVDEETQEVLGNLR,QMIAIAD ENQNHLEPEEILK	
IPI00230351.1	Q8K2B3	Sdha	Succinate dehydrogenase [ubiquinone] flavoprotein subunit, mitochondrial		LGANSLDLVVFGR,TLNEADCAT VPPAIR,AAFGLSEAGFNACLTAK, AGLPCQDLEFVQFHPTGIYGAGC LITEGCR,NTVIATGGYGR,KPFGE HWR,GVIALCIEDGSIHR,VDEYDY SKPIQGQK,ACALSIAESCRPGD K,VSDAISTQYPVVDHEFDVAVVG AGGAGLR,VTLEYRPVIDK,GEGGI LINSQGER,ISQLYGDLEK,KHTLSY VDIK,VGSVLQEGCEK
IPI00895251.1	Q6PET3	Sec11a	Sec11a protein (Fragment)		GDLLFLTNR,VGEIVVFR
IPI00755905.1	A2AIX1	Sec16a	SEC16 homolog A	GPSSEAAQEGDAQPYFSQSVGVR,ET LSVDPFPLSDQIR,HSSNQEEAVGALD FTLNR,IGNMWASPELK,PQELVGTFIQ QEVGK,ADASLFPPASTPSSLPGLEVS R	
IPI00123349.2	Q01405	Sec23a	Protein transport protein Sec23A		GPVQVQPPPSNR,YIDTEHGGSQ AR
IPI00377592.7		Sec31a	SEC31-like 1		LSSSFGNLDPFGTGQPLPPLQIPQQ SAQHSIVLPLK,KNEPIIK
IPI00226882.7	P61620	Sec61a1	Protein transport protein Sec61 subunit alpha isoform 1		IIEVGDTPK,GTLMELGISPIVTSGL IMQLLAGAK,FSGNLLVSLGTWS DTSSGGPAR,LFYTSNIPILQSAL VSNLYVISQMLSAR
IPI00315517.12	Q3UP79	Seh11	unnamed protein product	DLIHDVSDFHGR,AETLMTVTPVHDI AFAPNLGR	
IPI00377727.8	Q80TS8	Sel13	Isoform 1 of SEL1-like repeat-containing protein KIAA0746		CTEVQDISSYAATVQVGGER,LALE LMK,AVKRLSGVDGLHQISSAIFLM DSSCCGYHK
IPI00109326.1	Q9EP97	Senp3	Sentrin-specific protease 3	AFQMLLYSK,SGGGFGPDPGSGTTVP TR,HLALSQPFSTQQDMPK,ETIQGT GSWGPEPPGPGTYSNPR,SLVLQLIQ SYQR,LGLLGALMAEDGMR,GSPPVPS GPPMEEDGLR,LEDIFQQEFSTPSR	
IPI00309089.6	P42209	Sept1	septin 1	FIEEQFEQYLR,STLINSFLTNLYEDR	
IPI00454142.5	Q8C1B7	Sept11	Isoform 1 of Septin-11		AAAQLLQSQAQQSGAQQTK,DDS YKPIVEYIDAQFEAYLQEELK
IPI00114945.1	P42208	Sept2	Septin-2	STLINSFLTDLYPER,QQPTQFINPET PGYVGFANLPNQVHR,ASIPFSVVGSN QLIEAK,TMLITHMQDLQEVTDLHYE NFR,TIISYIDEQFER	STLINSFLTDLYPER,ASIPFSV GSNQLIEAK,ILDEIEHSIK,TIISYI DEQFER,TVQIEASTVEIEER HIIDNR,QQPTQFINPETPGYVGFAN LPNQVHR,YLHDESGLNR

IPI00224626.3	Sept7		cell division cycle 10 homolog	LPLAVVGSNTIIEVNGK,ILEQQNSSR,S TLINSLFLTDLYSPEYPPGPSHR,NLEGY VGFANLPNQVYR	LKDSEAE LQR,ILEQQNSSR,STLI NSLFLTDLYSPEYPPGPSHR,NLEG YVGFANLPNQVYR	
IPI00457611.2	Q80UG5	Sept9	Isoform 1 of Septin-9	NEKAPMEFGYVVGIDSILEQMR,ITADLL SNGIDVYPQK,QAPASRNEKAPMEFG YVVGIDSILEQMR,APMEFGYVVGIDSILE QMRR,VVNIVPIAK,APMEFGYVVGIDSILE LEQMR,STLINTLFLK,LNEGNSAMANGI EKEPEAQEM,DITSNIHFAYR,QGFEF NIMVVGQSGLGK,ITADLLSNGIDVYPQ KEFDEDAEDR,THMQNIKDITSNIHFEA YR		
IPI00471476.1	Q9CY58-2	Serbp1	Isoform 2 of Plasminogen activator inhibitor 1 RNA-binding protein	TDKSSASAPDVDDPEAFPALA,DELTD LDQSNVTEETPEGEEHPVADTENKEN EVEEVK,FDQLFDDESDFPEVLK,ENE VEEVKEEGPK,GEGGEFSVDRPIIER,P ANDITSQLEINFGDLGR,KPANDITSQLE EINFGDLGR,DELTDLDQSNVTEETPE GEEHPVADTENK,SSASAPDVDDPEA FPALA	RFEKPLEEK,KNPLPPSVGVADKK ,KEETQPPVALKK,SEEHAEDSV MDHHFR,RPDQQLQGDGK,VEFN IR,FDQLFDDESDFPEVLK,GEGG EFSVDRPIIER,KPANDITSQLEINF GDLGR,KPNEGADGQWK,SAQA AAQTNSNAAGK,EETQPPVALK,E AGGGGVGGPGAK	RFEKPLEEK,RPDQQLQGDGK,GGG GSHNWGTVK,FDQLFDDESDFPEV LK,KEAGGGGVGGPGAK,GEGGEF SVDRPIIER,KPANDITSQLEINFGDL GR,KEETQPPVALK,KPNEGADGQ WK,NPLPPSVGVADK,SSFHYSGL K,SAQAAAQTNSNAAGK,KNPLPP SVGVADK,FEKPLEEK
IPI00471475.1	Q9CY58	Serbp1	Isoform 1 of Plasminogen activator inhibitor 1 RNA-binding protein	TDKSSASAPDVDDPEAFPALA,GGSG SHNWGTVKDELTESPK,FDQLFDDES DPFEVLK,ENEVEEVKEEGPK,GEGGE FSVDRPIIER,PANDITSQLEINFGDLGR ,KPANDITSQLEINFGDLGR,SSASAPD VDDPEAFPALA	RFEKPLEEK,KNPLPPSVGVADKK ,RPDQQLQGDGK,SEEHAEDSV MDHHFR,KEETQPPVALKK,VEFN IR,FDQLFDDESDFPEVLK,GEGG EFSVDRPIIER,KPANDITSQLEINF GDLGR,KPNEGADGQWK,SAQA AAQTNSNAAGK,EETQPPVALK,E AGGGGVGGPGAK	RFEKPLEEK,RPDQQLQGDGK,GGG GSHNWGTVK,FDQLFDDESDFPEV LK,KEAGGGGVGGPGAK,GEGGEF SVDRPIIER,KPANDITSQLEINFGDL GR,KEETQPPVALK,KPNEGADGQ WK,SSFHYSGLK,NPLPPSVGVAD K,SAQAAAQTNSNAAGK,KNPLPP SVGVADK,FEKPLEEK
IPI00136642.1	P32261	Serpinc1	Antithrombin-III	VAEGTQVLELPPFKGDDITMVLILPKPE K,NDNDNIFLSPLSISTAFAMTK,VAEGT QVLELPPFK,GDDITMVLILPKPEK		
IPI00880252.1	Q5U4D0	Serpinh1	serine (or cysteine) proteinase inhibitor, clade H, member 1 precursor	LRDEEVHTGLGELLR,LSSLIILMPHHV EPLER,DNQSGSLLFIGR,DQAVENILL SPLVVASSLGLVSLGGK,LFYADHPFIF LVR,HLAGLGLTEAIDK,LYGPSSVSFA DDFVR	SALQSINEWASQTDDGK,DQAVENI LLSPLVVASSLGLVSLGGK,SYTVGV TMMHR,LYGPSSVSFADDFVR	
IPI00886248.1	Q8CFT2	Setd1b	Isoform 1 of Histone-lysine N-methyltransferase SETD1B		TGPLASPVLLETGLPLPLPLPLPL ALPVPVLR,RSPPSMLSLDGPLVR	
IPI00116284.4	Q64213	Sf1	Isoform CW17 of Splicing factor 1	VMIPQDEYPEINFGVLLIGPR,HTLITEM VALNPDFKPPADYKPPATR,AYIVQLQI EDLTR,DGQMLPGEDEPLHALVTANT MENVK	VMIPQDEYPEINFGVLLIGPR,AYI VQLQIEDLTR,FQRPQDPQSAQD K ILRPWQSSETR,TVIPGMPTVIPPL TR,FQRPQDPQSAQDK,KDGMPLP GEDEPLHALVTANTMENVK	

IPI00408796.3	Q8K4Z5	Sf3a1	Splicing factor 3 subunit 1		ASKPLPPAPAPDEYLVSPITGEK, EPPPEFEFIADPPSISAFDLDVVK, VQAQVIQETIVPK,TQQAQANITL QEQIEAIHK,IGEEEEIQKPEEK,LTA QFVAR,LQYEGIFIK,EVLDQVCYR	ASKPLPPAPAPDEYLVSPITGEK,VQ AQVIQETIVPK
IPI00380281.4		Sf3a2	splicing factor 3a, subunit 2	WQYLLMAAEPYETIAFK,MEKPPAPPS LPAGPPGVK,QLALETIDINKDPYFMK, NHLGSYECKLCLTLHNNEGSYLAHTQ GK,DTEMGQQSLLFQIDYPEIAEGIMP R		
IPI00137848.1	Q9D554	Sf3a3	Splicing factor 3A subunit 3	SLESLDTSLFAK,WDNGTFPGWPK,W QPDTEEEYEDSSGNVVK		
IPI00623284.4	Q99NB9	Sf3b1	Splicing factor 3B subunit 1		AIGPHDVLATLLNNLK,AFAVVASA LGIPSLPFLK,KMVMETIEK,EFG AGPLFNQILPLMSPTLEDQER,V KPYLPQICGTVLWR,ICFELLELLK, IVQQIAILMGCAILPHLR,LLVDVDE STLSPEEQK,TISALAIALAEAAT PYGIESFDSVLKPLWK,GDTPGHA TPGHGGATSSAR,ILVVIEPLIDE DYYAR,VGAAEISR,SLVEIEHGL VDEQQK	VVNGAAASQPPSK,AIGPHDVLATLL NNLK,TEILPPFFK,AFAVVASALGIP SLLPFLK,GDTPGHATPGHGGATSS AR,VKPYLPQICGTVLWR,QQAADLI SR,IWDTPSHTPAGAATPGR,LSS WDQAETPGHTPSLR,VGAAEISR
IPI00349401.3	Q3UAI4	Sf3b2	Putative uncharacterized protein		VGEPVALSEEEER,GIEKPPFELPD FIK,KPGDLSDELRL,LIHGDLYE GK	GELQLPPPPPPGHYGAWAAQELQA R,GIEKPPFELPDFIK
IPI00122011.2	Q921M3	Sf3b3	Isoform 1 of Splicing factor 3B subunit 3		FSNTGEDWYVLVGVAK,ELAAEM AAAFLNENLPESIFGAPK,AEVIMN YHVGTVLSLQK,KFVIHPESNNLI IETDHNAYTEATK,IVILEYQPSK,L TISSPLEAHK,LGAVFNQVAFPLQ YTPR,TPVEEVPAAIAPFQGR,FLA VGLVDNTVR,IHQETF GK	ELAAEMAAAFLNENLPESIFGAPK,Q QEIVVSR,IVPGQFLAVDPK,LTISSP LEAHK,HIANYISGIQTIGHR,TPVEE VPAAIAPFQGR,LGAVFNQVAFPLQ YTPR,IHQETF GK
IPI00311948.3	Q923D4	Sf3b5	Splicing factor 3B subunit 5		YTIHSQLEHLQSK,YIGTGHADTTK ,MLQPSGPPADKPEEN	
IPI00454015.2	Q8CH02	Sf4	Splicing factor 4	LTVENIGYQMLMK,DIDASPSPLSVQD LK,FIADGGPEVETIALQNNR,EWAEQL TQMGR,FANDGSFLQQFLK,WGPEED KVELPPAELAQR		
IPI00118286.1	O70456	Sfn	14-3-3 protein sigma	DSTLIMQLLR	NLLSVAYK,YLAEVATGDDK,DSTL IMQLLR,LGLALNFSVFHYEIANSP EEAISLAK,SAVEKGEELSCEER,L AEQAER	NLLSVAYK,GVCDTVLGLLDSHLIK,T TFDEAMADLHTLSEDSYK,DSTLIM QLLR,YLAEVATGDDKK,LAEQAER

IPI00129430.1	Q8VIJ6	Sfpq	Splicing factor, proline- and glutamine-rich	NLSPYVSNELLEEAQFGPIER,LFVG NLSPYVSNELLEEAQFGPIER, NLPADITEDEFKRPVIVEPLEQLDDED FATHAAALSVR,ANLSLLR,LFVGN NLSPYVSNELLEEAQFGPIER,FA GLPEK,DAKDKLESEMEDAYHEHQAN LPADITEDEFKRPVIVEPLEQLDD THAAALSVR,ANLSLLR,PVIVEPLEQ LLR,ALAEIAKAELEDDTPMR,ISDSEGFK EDGLPEK,QHHAPYHQHHQGP LDEDGLPEK,QHHAPYHQHHQGP ANLSLLR,LFVGNLPADITEDEFK,DKLE PPGGPGPR,YGEPGEVFINK,LFV PPPGGPGPR,YGEPGEVFINK,LFV SEMEDAYHEHQANLLR,FAQHGTFEY GNLPADITEDEFK,FGQGGAGPV GNLPADITEDEFK,FGQGGAGPVGG EYSQR,TEEKISDSEGFKANLSLLR,RM GGQGP,FAQHGTFEYEYSQR,A QGPR,ISDSEGFK EELHSQEMQKR,AVVIVDDR VVIVDDR
IPI00848672.1		Sfrs11	splicing factor, arginine/serine-rich 11 isoform 2	ALIVVPYAEGVIPDETK,LNHVAAGLVSPSLK,FHDPDSAVVAQHLTNTVFVDR LNHVAAGLVSPSLK,ALIVVPYAEGVIPDETK
IPI00314984.4	Q3UYX6	Sfrs13a	Putative uncharacterized protein	YGPIVDVYVPLDFYTR,GFAYVQFEDV YGPIVDVYVPLDFYTR,GFAYVQFEDVR
IPI00405760.2	Q8CH09	Sfrs14	Putative splicing factor, arginine/serine-rich 14	VGMIPAPK,TLTSPDLAMALETNLS LCR
IPI00474430.1	Q8C671	Sfrs2	Putative uncharacterized protein	YGRPPDSHHSR,VGDVYIPR VDNLTYSR,VGDVYIPR
IPI00129323.1	P84104	Sfrs3	Isoform Long of Splicing factor, arginine/serine-rich 3	AFGYYGPLR,NPPGFVFEFEDPR AFGYYGPLR,NPPGFVFEFEDPR, VYVGNLGNNGNK
IPI00607076.1	Q542V3	Sfrs4	splicing factor, arginine/serine-rich 4	NEGVIEFVSYSMDK,NGYGFVEFDDLR QAGEVTYADAHK,LIVENLSSR
IPI00314709.1	O35326	Sfrs5	Splicing factor, arginine/serine-rich 5	GFGFVEFEDPR,LNEGVEFASYGDLK
IPI00222763.1	Q8BL97	Sfrs7	Isoform 1 of Splicing factor, arginine/serine-rich 7	NPPGFVFEFEDPR GHYAYDCHR,RPFDPNDR,VYVG GHYAYDCHR,RPFDPNDR,VELSTG MPR NLGTGAGK,NPPGFVFEFEDPR
IPI00132340.1	Q9D0B0	Sfrs9	Splicing factor, arginine/serine-rich 9	KEDMEYALR,VLVSGLPSPSGWQDLK, EKDLEDLFYK,IYVGNLPSDVR,DLEDL FYK,DGMGMVEYLR
IPI00115454.3	Q99JR1	Sfxn1	Sideroflexin-1	VGIPVTDENGTR,SGDAPLTVNELG TAYVSATTGAVATALGLNALT
IPI00127358.1	Q91VW3	Sh3bgrl3	SH3 domain-binding glutamic acid-rich-like protein 3	IQYQLVDISQDNALRDEM, IQYQLVDI SQDNALR
IPI00312752.3	Q62419	Sh3gl1	Endophilin-A2	ALYDFEPENDGELGFR,ELGGESNFG DALLDAGESMK,EVAETSMHNLLETDI EQVSQLSALVDAQLDYHR
IPI00849830.1		Shb	src homology 2 domain-containing transforming protein B	GAEHLSLLYPVAVR,VTIPALAAQFNG NEK
IPI00125298.2	P98083	Shc1	Isoform p66 of SHC-transforming protein 1	KQMLPPPPCPGR,HGSFVNKPTR,K PCSRPLSSILGR
IPI00608017.1	Q8R0X9	Shmt1	serine hydroxymethyltransferase 1	SALRPSGLR,ALSDALTELYGK,IQ SAVATLR SALRPSGLR,VLEACSIACNK,AVLE ALGSLNKK,ALSDALTELYGK,VAH FIHR

IPI00454008.1	Q99K87	Shmt2	Serine hydroxymethyltransferase	ISATSIFFESMPYK,AHLLADMAHISGL VAAK,GYSLVSGGTDTHLVLDLRPK,L NPQTGLIDYDQLALTAR,VVDFIDEGVN IGLEVK	VLELVSITANK,LIIAGTSAYAR,GY SLVSGGTDTHLVLDLRPK,LNPQ TGLIDYDQLALTAR,INFAVFPSLQ GGPHNHAIAAVAVALK,LGAPALT SR,VVDFIDEGVNIGLEVK,YADV TTTTHK	AALGALGSLNNK,LNPQTGLIDYD QLALTAR,YADVTTTTHK
IPI00117932.2	Q60520	Sin3a	Isoform 1 of Paired amphipathic helix protein Sin3a	AFLEILHTYQK,SEQATEENAGVPVGP HLSLAYEDK		
IPI00453688.1	Q8C0T5	Sipa111	Isoform 1 of Signal-induced proliferation-associated 1-like protein 1			KPEGTINSVGFMDTRK,ASFFAASD ENHRPLSAASNSDQLEEQALVQMK ,VVIIPPHDDCTPRR,EHWNYFGADE NLGPVAVSIR,QDPVVHLSPNK
IPI00134988.1	Q923E4	Sirt1	NAD-dependent deacetylase sirtuin-1			AVGSSTADK,VRPVALIPSSIPHEVP QLINR,MADEVALALQAAGSPSAAA AMEAASQPADEPLR
IPI00113134.1	Q9CZU3	Skiv212	Superkiller viralicidic activity 2-like 2		GIVILMVDEK,IVIPNEENVVIYK, GEMQVVPVLVHLLSAISTVR,KMV EEVFNNAIIDCLSDDEKK,GSADPL NSAFHLTYNMVNLNLLR	
IPI00331163.9	Q9WTX5	Skp1a	S-phase kinase-associated protein 1		LQSSDGEIFEVDVEIAK,VDQGTL FELILAANYLDIK	
IPI00137194.1	P53986	Slc16a1	Monocarboxylate transporter 1		AAQSPQQHSSGDPTEESPV,EG KEDEASTDVDEKPK	
IPI00230754.5	Q9CR62	Slc25a11	Mitochondrial 2-oxoglutarate/malate carrier protein		LGIYTVLFR,YEGFFSLWK	
IPI00135651.1	Q9QXX4	Slc25a13	Calcium-binding mitochondrial carrier protein Aralar2		ASFANEDGQVSPGSLLAGAIA MPAASLVTPADVIK,DVEVTKEEF ALAAQK,SSPQFGVTLTYELLQR, DGSVPLLAEIFAGGCAGGSQVIFT NPLEIVK,ITLPAPNPDHVGGYK,P FLLQLAESAYR,LQVAGEITTGPR, LTVNDFVR,ASGDAARPFLQLAE SAYR,LAVATFAGIENK,FGQVTP MEVDILFQLADLYEPR,YEGFFGL YR,FGLGSIAGAVGATAVYPIDLV K,TVELLSGVVDQTK,RADPAELK, GEVTFEDVK,KIYSTLAGNR	FGLGSIAGAVGATAVYPIDLVK,FGL YLPLFKPSASTSK
IPI00115564.5	P48962	Slc25a4	ADP/ATP translocase 1	YFPTQALNFAFK,GMGGAFVLVLYDEI KK	YFAGNLASGGAAGATSLCFVYPL DFAR,GNLANVIR,GMGGAFVLV YDEIK,YFPTQALNFAFK,LLLQVQ HASK,GIIDCVVR,TAVAPIER,GA WSNVLR,GMGGAFVLVLYDEIKK, DFLAGGIAAAVSK,AAYFGVYDTA K	YFAGNLASGGAAGATSLCFVYPLD FAR,GNLANVIR,YFPTQALNFAFK,L LLQVQHASK,TAVAPIER,GAWSNV R,DFLAGGIAAAVSK

IPI00127841.3	P51881	Slc25a5	ADP/ATP translocase 2	YFPTQALNFAFK,GMGGAFVLVLYDEI KK	YFAGNLASGGAAGATSLCFVYPL DFAR,GMGGAFVLVLYDEIK,AA FGIYDTAK,GIIDCVVR,TAVAPIER, GLYQGFNVSVQGIIYR,GAWSNV FAR,GNLANVIR,DFLAGGVAAAISK, LR,GMGGAFVLVLYDEIKK,GNLA YFPTQALNFAFK,LLLQVQHASK,TA NVIR,EQGVLSFWR,DFLAGGVAA VAPIER,GAWSNVLR,GLGDCLVK AISK,LLLQVQHASK,YFPTQALNF AFK,GLGDCLVK
IPI00120769.3	Q9JIM1	Slc29a1	Isoform 1 of Equilibrative nucleoside transporter 1		IVFIPLMLCNVK,WLPVLVASR,ALA DPTVALPAR
IPI00884508.1	Q6GTI3	Slc2a1	solute carrier family 2 (facilitated glucose transporter), member 1		RTLHLIGLAGMAGCAVLMTIALAL FLLINR,TPEELFHPLGADSQV,FIIGV LER,FLLINR,TPEELFHPLGADSQ YCGLTTGFVPMYVGEVSPTALR,TF V,VTILELFR DEIASGFR
IPI00134191.3	P32037	Slc2a3	Solute carrier family 2, facilitated glucose transporter member 3		GPAGVELNSMQPVK,EEDQATEIL QR,KEEDQATEILQR,QVTVLELFR ,TFEDIAR
IPI00123279.1	Q922Q5	Slc35b3	Adenosine 3'-phospho 5'-phosphosulfate transporter 2		LIPVMLGGVFIQ GK,TYMLIAFLT VGT MGLSNTSLGYLNYPTQVIFK,NPVG TYGYAFLFSLTGYFGISFVLALIK
IPI00114641.2	Q60849	Slc3a2	CD98 heavy chain		EEDTSLKLENLSLNPYEGLLLQFP FVA,GQNEP GSLLTQFR,SIHILD LTPNYQQNAWFLPAQADIVATK ,LGASNLPAGISLPASAK,LLLSTD GLVLGPIHK,GQNEP GSLLTQFR,L SAR,EALSSWLQDGVDFQFR,S GASNLPAGISLPASAK,LLLSTD SAR, HLEYLSTLK,YLVLNFR,NQKDEI IGDLQAFVGR NETDLK,LENLSLNPYEGLLLQFP FVA,IGDLQAFVGR
IPI00880321.1		Slc4a1ap	83 kDa protein	LDEKETFESLVAK,ETKSHESISQLSQ VEQSK,LFILQGPEEDR,VLDLTLGLLR	
IPI00109311.3	P70441	Slc9a3r1	Isoform 1 of Na(+)/H(+) exchange regulatory cofactor NHE-RF1	LLVVDKETDEFFK,AVDPDSPAEASGL R,QVSTEPSSTSSSSDPILDNLISLAV AK	
IPI00331076.4	O54988	Slk	Isoform 1 of STE20-like serine/threonine-protein kinase	LIQSEEINDTHIQTMDLVSQETGEK,EA DFQAVDNEVGLTK	
IPI00229571.1	Q8CH25	Sltm	Isoform 1 of SAFB-like transcription modulator	TTQEFVEAEAIEDR,KQEADELSGDAS VEDDSFVK,FPDTASVQSSFER	
IPI00221882.1	Q8BHJ9	Slu7	Pre-mRNA-splicing factor SLU7	QRPDDPMASFLGQ,NPDEVSYAGDNF VR,FTGTNIAPDEHVQPQLMFDYD GK	

IPI00460668.2	Q3TUD7	Smarca4	Putative uncharacterized protein		GLDPVEILQER,ILTGTDAPK,GLQ SYYAVAHAVTER,FNVLLTTYEYII K,VDLNEEETILIIIR,LTQVLNTHYV APR,AIEEGTLEEIEEEVVR,AGGLG LNLQSADTVIIFDSDWNP HQDLQ AQDR,ATNHKVVLLFCQMTSLMTIM EDYFAYR,LAYLLQQTDEYVANLT ELVR	
IPI00396739.1	Q91ZW3	Smarca5	SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily A member 5		IAFTIEWIEPPKR,LDSIVIQQGR,LL NILMQLR,FITDNTVEER,YLVIDEA HR,LFELLEK,VLIFSQMTR,LVDQ NLNK,LRLDSIVIQQGR	APFHQLR,IMAQUIER,LVDQNLNK,MS SAVEPPPPPPESAPSKPSAAGAG GSSSGNK
IPI00125662.2	P97496	Smarcc1	Isoform 1 of SWI/SNF complex subunit SMARCC1	GGTVADLDEQDEEAVTTGGKEDEDP SK,SLVALLVETQMK,PNIYLIPDIDLK,S PQVPAAQQMLNFPEK,VHAFLEQWGL VNYQVDPEER,GGTVADLDEQDEEAV TTGGK,VREEVPLELVEAHVK,GGTVA DLDEQDEEAVTTGGKEDEDP SKGDP SR,TPEIYLAYR,LRHFEELETIMDR,HF EELETIMDR,EKPIDLQNFGLR,KVEHEI SEGNVATAAAAALASAATK,FWESPDT VSQLDVSR,TLAGLVVQLLQFQEDAFG K,DMEDPTVPNIIEEVLPK	HLAAVEER,SLVALLVETQMK,FW ESPDTVSQLDSVR,VHAFLEQWGL LVNYQVDPEER,TLAGLVVQLLQF QEDAFGK,AGGTLCHILGAAYK,V REEVPLELVEAHVK	HVTNPAFTK,HLAAVEER,SPQVPAA QQMLNFPEKNKEK,KVEHEISEGNV ATAAAAALASAATK,KASANSRK,AG GTLCHILGAAYK
IPI00121270.5	Q61466	Smarcd1	Isoform 2 of SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily D member 1	ELVPESQAYMDLLAFER,PVIIQALWQY IK,MTPQGPSMGPPGYGGNPSVR,LLG IHTQTRPVIIQALWQYIK,SLVIELDKDL YGPDNHLVEWHR,LHALLMPPEPIINH VISVDPNDQK		
IPI00119892.1	O54941	Smarce1	SWI/SNF-related matrix-associated actin-dependent regulator chromatin subfamily E member 1	AYHNSPAYLAYINAK,KDEESIPMETEE THLEDTAESQQNGEESTPDK,KFL ESTDSFNNEK,KLEAELLQIEER,LISEI LSESVVPDVR,DLTDEEKQEYLNEYEA EK,FLESTDSFNNEK,LEAELLQIEER, FLESTDSFNNEK,IAAEIAQAEQAR		
IPI00606586.2	Q3ULS2	Smc2	Putative uncharacterized protein	DNSTATALEVVAGER,IVNLQEVLS ENK,LYIAYQFLR	VAQNLVGPDNVHVALSLVDYKPE LQK,IVNLQEVLSENEK,LYIAYQFL R	ILATIEDLDQK,FPNLQFAYK,KNLAS EETKR
IPI00132122.3	Q9CW03	Smc3	Structural maintenance of chromosomes protein 3	GSGSQSSVPSVDQFTGVGIR,SIMELM NVLELR,AELGTDLLSLSLEDQK		

IPI00229397.1	Q8CG47	Smc4	Structural maintenance of chromosomes protein 4	ELEANVLTAPDR,FTQLDLEDVQVR,N AQFIIISLR,VVTLQGQIIEQSGTMSGGG SK	SHGIDL DHNR,FTQLDLEDVQVR, LLEENVSVFK,LPQTQQELK,EALI TASETLK,NAQFIIISLR,YDIAISSC CHALDYIVVDSIDTAQECVNFLK,V LDIIIEK,VIQENEHALQK,FSCIIG PNGSGK,HNTAVSLSK,RVEILN EHR
IPI00129918.1	P97801	Smn1	Survival motor neuron protein		AAPWTSFLPPPPMPGSLGPGPK GLK,CSAVWSEDGCIYPATITSIDFK R
IPI00221714.1	Q8BGT7	Smndc1	Survival of motor neuron-related-splicing factor 30	DLLSTQPSETLASSDSFASTQPTHSW K,DLQEVIETK,AQLQQVEAALSGNGE NEDLLK	
IPI00648499.1		Smtn	103 kDa protein	LESMNDVEELTLLR	
IPI00331342.6	Q3UKJ7	Smu1	Isoform 1 of WD40 repeat-containing protein SMU1		AAIAQALAGEVSVVPPSR,DVEEE KFPTQLSR
IPI00321581.4	Q9ERB0	Snap29	Synaptosomal-associated protein 29	IDSNLDELSVGLGHLK,MSQKHINSIK,S YNPFDDDDVEEEDTRPAPWK,SVFGGFI NYFK,LDVNIKSTEEK	
IPI00271440.4	Q9Z0F7	Sncg	Gamma-synuclein	TKEQANAVSEAVVSSVNTVANK,TVEE AENIVVTTGVVR	
IPI00123129.1	Q78PY7	Snd1	Staphylococcal nuclease domain-containing protein 1	PLYDIPYMFEAR,NLPGLVQEGEPFSE EATLFTK,SEAVVEYVFGSGR,DIQNTQ CLLNVEHLSASCPHVTLQFADSK,DTN GENIAESLVAEGLATR,LRPLYDIPYMF EAR,VITEYLNAQESAK,PVFTVTEITDDL HFYVQDVETGTQLEK	GDVGLGLVK,VLPAQATEYAFAFI QVPQDEDAR,DVQIILESCHNQNL LGTILHPNGNITELLLK,DIQNTQC LLNVEHLSASCPHVTLQFADSK,S SHYDELLAAEAR,ALLLPGHHLVT VMLSGIK,MVLSGCAIIVR,ELVQ R,SEAVVEYVFGSGR,NLPGLVQE GEPFSEEATLFTK,NDISSHPPVE GSYAPR,TCATVTIGGINIAEALVS K,EGLVMVEVR,RGEFCIAK,DTNG ENIAESLVAEGLATR,EVCFTIENK ,VITEYLNAQESAK,VMQVLNADAI VVK,VHVFYIDYGNR,SAYYKPLLS AEEAAK,ETCLITFLLAGIECPR

IPI00420329.1	Q6P4T2	Snrnp200	Small nuclear ribonucleoprotein 200	LIVLDEIHELLHDDRGPVLEALVAR, TLVEDLFADK,TICAEFAILR,GLIEII SNAAEYENIPPIR,SGGPVWVLVQL ER,LATYGITVAELTGDHQLCK,M WQSMCPLRQFRK,TNLLLQAHLS R,LTADILTTCAADIQR,GNIISTPE K,LIGLSATLPNYEDVATFLR,DIDA FWLQR,DILCGAADEVLAFLK,IVA LSSSLNAK,ETYEVLVLSFIQAALG DQPR,VLLTGETSTDLK,AIFEIVL NR,INVLLQAFISQLK,EEGWVVVI GDAK,NQVLVVFVHSR,EEISATQII VCTPEK,LYDLNHNEIGELIR,TGN FQVTELGR,LIVLDEIHELLHDDR,EI DLLLGQTDDDR,YAQDEHLITFFV PVFEPLPPQYFIR,FYDDAIVSQK, TYTQLVR,HLILPEK,YPNIELSYEV VDKDSIR,DTLGLFLR,LVEQLFSS GAIQVVVASR,MIDKRMWQSMCP LR,NALLQLTDSQIADVAR,KADEV LEILK,GLFYFDNSFRPVPLEQTYV GITEK,FQIMNEIVYEK	TGNFQVTELGR,YAQDEHLITFFVPV FEPLPPQYFIR,FPPFNPIQTQVFNT VYNSDDNVFVGAPTGSQK,WLSCE TQLPVVSR,YPPPTELLDLQPLPVSA LR,AALETDENLLLCAPTGAGK,HLIL PEK,LTADILTTCAADIQR,PLQDDE GRCVIMCQGSK,NALLQLTDSQIAD VAR,YHVLVNLGK,DILCGAADEVLA VLK,NALLQLTDSQIADVARFCNRYR NIELSYEVVVK
IPI00458439.1	Q8K194-2	Snrnp27	Isoform 2 of U4/U6.U5 small nuclear ribonucleoprotein 27 kDa protein	LMGFASFDSTK,QITEEDLEGKTEEEIE MMK	
IPI00461621.1	Q6PE01	Snrnp40	U5 small nuclear ribonucleoprotein 40 kDa protein	LPGHAGSINEVAFHPDEPIILSASSDK, HELLLGAAGAGPGAGPQQATPGALLQ AGPPR,GHADSVTGLSLSSEGSYLLSN AMDNTVR,AAVQTQNTYQVLAVTFN DTSQIISGGIDNDIK,GHSGAVMELHY NTDGSMLFSASTDK	
IPI00625105.2	Q62376	Snrnp70	Isoform 1 of U1 small nuclear ribonucleoprotein 70 kDa	MWDPHNDPNAQGDFAK,GGGGSGQ DNGLEGLGSDGR,DPIPYLPPLEK,GG GGGGGGSGGGGGGDMAPSEAGD GAPDDGPPGELGPEGPDGPEEK,GYA FIEYEH	YDERPGPSPLPHR,GGADVNI,DM YMEAGGDGYMAPENGYLMEAAP E,VLVDVER,DPIPYLPPLEK
IPI00122350.4	Q62189	Snrpa	U1 small nuclear ribonucleoprotein A	GQAFVIFK,DALQGFK	GQAFVIFK,EVTSATNALR,ANHTI YINNLNEK AVQGGAAAPVVGAVQPVPGMPPM PQAPR,EVTSATNALR
IPI00170008.1	P57784	Snrpa1	U2 small nuclear ribonucleoprotein A'	KLDGFPLLR,LTAEIEQAAQYTNVAVR, SGPSDEGEEIEDDTVTNGS,GLLQSG QIPGR,SLTYLSILR,LDGFPPLR,IPVIEN LGATLDQFDAIDFSDNEIR,TFNPGAGL PTDK,NAIANASTLAEVER,RSGPSDEG EEEIEDDTVTNGS	LTAELIEQAAQYTNVAVR,IGEGLD QALPCLTELILTNNLSLVELGDLDP LASLK,SLTYLSILR,IPVIENLGATL DQFDAIDFSDNEIR IGEGLDQALPCLTELILTNNLSLVELG DLDPASLK,GLLQSQIPGR,KGGP SAGDVEAIK

IPI00132576.1	Q9CQI7	Snrpb2	U2 small nuclear ribonucleoprotein B''	TSDSIISK,GQAFVIFK,TMEQAAAAANK, ,DALQGFK,HDIAFVEFENDGQAGAAR, ITPSHAMK,SLYALFSQFGHVVDIVALK	GQAFVIFK,SLYALFSQFGHVVDIV ALK
IPI00322749.3	P62315	Snrpd1	Small nuclear ribonucleoprotein Sm D1	EPVQLETLSIR,NREPVQLETLSIR,GN NIRYFILPDSLPLDTLLVDVEPK,YFILP DSLPLDTLLVDVEPK,LSHETVTIELK,N GTQVHGTITGVDVSMNTHLK	NREPVQLETLSIR,YFILPDSLPLD TLLVDVEPK,LSHETVTIELK
IPI00119220.1	P62317	Snrpd2	Small nuclear ribonucleoprotein Sm D2	MFLRGDSVIVLVRNPLIAGK,REEEEFN TGPLSVLTQSVK,SEMTPEELQKREEE EFNTGPLSVLTQSVK,EEEEFNTGPLS VLTQSVK,NPLIAGK	GDSVIVVLR,NNTQVLINCR
IPI00119224.1	P62320	Snrpd3	Small nuclear ribonucleoprotein Sm D3	FLILPDMLK,VAQLEQVYIR	VLHEAEGHIVTCETNTGEVYR,VA QLEQVYIR VLHEAEGHIVTCETNTGEVYR,FLIL PDMLK,VAQLEQVYIR
IPI00133955.1	P62305	Snrpe	Small nuclear ribonucleoprotein E		IQVWLYEQVNMNR,VMVQPINLIFR, GDNITLLQSVSN VMVQPINLIFR,IEGCIIGFDEYMNLV LDDAEEIHSK
IPI00128699.3	P63163	Snrpn	Small nuclear ribonucleoprotein- associated protein N	VLGLVLLR,VLGLVLLRGENLVSMTVE GPPPK,HMNLILCDCDEFR,IFIGTFK,M LQHIDYR	VLGLVLLR,RVLGLVLLR,IFIGTFK
IPI00317298.2	Q9CSN1	Snw1	SNW domain-containing protein 1	EGPVQFEEDPFGLDK,DISEVIALGVPN PR,LLEDFGDGGAFPEIHVAQYPLDMG R,EVMNADDPDLQRPDEEAIKEITEK,S LQTSLVSSR,RPSDSSRPK	
IPI00468902.2	Q3V2H3	Snx12	sorting nexin 12 isoform 2	PQDLTDAYGPPSNFLEIDIFNPQTVGV GR,GDEGIFEEFIEER,LNSKPQDLTD AYGPPSNFLEIDIFNPQTVGVGR	
IPI00128062.1	Q91WE1	Snx15	Sorting nexin-15	EESTGPSPTHTGELAAIEVESK,RLEEF PAFPR	
IPI00130589.8	P08228	Sod1	Superoxide dismutase [Cu-Zn]	HVGDLGNVTAGK,DGVANVSIEDR,HG GPADEER,VISLSGEHSIIGR,TMVVHE K,GDGPVQGTIHFEQK,KHGGPADEER	HVGDLGNVTAGK,DGVANVSIED R,VISLSGEHSIIGR,LACGVIGIAQ, GDGPVQGTIHFEQK VISLSGEHSIIGR,GDGPVQGTIHFE QK
IPI00109109.1	P09671	Sod2	Superoxide dismutase [Mn], mitochondrial		GELLEAIK,GDVTTQVALQPALK,A IWNVINWENVTER GDVTTQVALQPALK,NVRPDYLK,H HAAYVNNLNATEEK
IPI00828218.2		Son	269 kDa protein	AGVPLPPNLKPAPPPTIEEK,SEGQLN GETNPPIEGNQAGDTAASAR	DAEHNTVCATTVGPVGEASEEKILP ISETK,ATAATVVVLQAMGLVPK,ILDS FTAAPVPMSTAALK,HPVSALMEIC NK
IPI00468140.2	Q62417	Sorbs1	Isoform 1 of Sorbin and SH3 domain- containing protein 1	PSSAYPSTTIVNPTIVLLQHNR,QGIFPI TYVDVLK,SVLEGGDIPLQGLSGLK,LA PVQVLEYGEIAIAK,TPVDYIDL PYSSSP SR,HFIPADYLESTEEFIR	
IPI00830717.1	Q60I23	Sox2	sex-determining region Y-box 2	LHMAQHYQSGPVPGTAINGTLPLSHM, SEASSPVPVVTSSSHSR,SEASSPVPV VTSSSHSRAPCQAGDLR	
IPI00126343.1	P07214	Sparc	SPARC	LEAGDHPVELLAR,QDINK	

IPI00169793.1	Q8K1N4	Spats2	Isoform 1 of Spermatogenesis-associated serine-rich protein 2	TGSVLENGVSDFEPK,AEAMEILLSR,E LEDPEFAAAETLDR,TTPGAQVSNLGM ENVPLSSTNK,MSEEQLVELR
IPI00750617.2	Q3UA16	Spc25	Isoform 1 of Kinetochore protein Spc25	LKEEER,LQFIFTSIDPK
IPI00331223.3	Q62407	Speg	Isoform 1 of Striated muscle-specific serine/threonine-protein kinase	TGTLEFMAPEMVK,PSLAPLFTR,KP TVCESETR,QDGGHLHLHIAR,DLGP LTCSAR
IPI00378158.1	Q62504	Spen	Isoform 1 of Msx2-interacting protein	EPAETPR,IIEHFK,PAPQTLTGLVSA LTGLVNVSLVPVNLK,LHPYTVPR

IPI00753815.3	P16546	Spna2	Isoform 1 of Spectrin alpha chain, brain	<p>ALINADELANDVAGAEALLDR,HQAFE AELHANADR,EAIVTSEELGQDLEHVE VLQK,YTEHSTVGLAQWQDQLDQLGM R,NQALNTDNYGHDLASVQALQR,ELV LALYDYQEK,IAALQAFADQLIAVDHYA K,AGTFQAFEQFGQQLLAHGHIASPEI K</p> <p>MQHNLEQQIQAR,IDGITIQAR,LF GAAEVQR,VNEVSQFAAK,KFEF QTDLAAHEER,LIQNNHYAMEDV ATR,TATDEAYKDPSNLQGK,ADV VESWIGEK,LAALADQWQFLVQK, GLVSSDELAK,KLDPAQSASR,KH QLLEADISAHEDR,DLTNVQNLQK ,EAIVTSEELGQDLEHVEVLQK,LI QEQHPPEEELIK,ELVLALYDYQEK, NVEDIELWLYEVEGHLASDDYQK, IAALQAFADQLIAVDHYAK,DVED EETWIR,VLETAEDIQER,EAALTN EEVGADLEQVEVLQK,LLVSSSEDY GR,ENLLEEQGSIALR,KVEDLFLT FAK,DVDEIEAWISEK,SLQQLAEE R,TALLELWELR,AQLADSFHLQQ FFR,LLEATELK,LSDDNTIGQEEIQ QR,LMVHTVATFNSIK,LQQSHPL SASQIQVK,SADESGQALLAASHY ASDEVK,DVTGAEALLER,KHEAF ETDFTVHK,NTTGVTEEALK,MTL VASEDYGDTLAAIQGLLK,ELPTA FDYVEFTR,DLASVQALLR,ALINA DELANDVAGAEALLDR,LDETGNL MISEGHFASETIR,GNAMVEEGHF AAEDVK,DLTGVQNLRLQASDE SYKDPTNIQSK,DLSSVQTLTK,A LSSEGKPYVTK,ITALDEFATK,LG DSHDLQR,LQVASEDNYKDPTNL QGK,REELITNWEQIR,DVDETIG WIK,LAQFVEHWK,SQLLGSAHEV QR,SSLSSAQADFNQLAELDR</p> <p>EAALTNEEVGADLEQVEVLQK,LSE LNQK,MQHNLEQQIQARNTTGVTEE ALKEFSMMFK,SADESGQALLAASH YASDEVK,DLIGVQNLK,ELPTAFD YVEFTR,ENLLEEQGSIALR,ALINAD ELANDVAGAEALLDR,SQLLGSAHE VQR,HQALQAEIAGHEPR,LIQSHPE SAEDLK,IAALQAFADQLIAVDHYAK, DLSSVQTLTK</p>
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IPI00319830.7	Q62261	Spnb2	Isoform 1 of Spectrin beta chain, brain 1	LSDGNEYLFQAK, QNLLSQSHAYQQFLR, TLETPAAQMEGFLNR	INAVVETGR, GNLEVLFTIQSK, LE DLEVIQHR, AQTLPTS VVTITSESS PGK, DALLSALS IQNYHLECNETK, ITDLYTDLR, HALVEADIAQAER, F QIQDISVETEDNK, LLEVELSGER, A LVADSHPESE, LVSQDNFGFDL PAVEAATK, DLVAIEAK, IHCLENV DK, KHEAIETDIAAYEER, LTTLELL EVR, VQAVVAVAR, VLDNAIETEK, I VSSNDVGHDEYSTQSLVK, VLLLS QDYGK, DLTSVNILLK, EAICEVAL DYK, LWEYLLELLR, LVSDGNINSD R, LEEASLLHQFQADADDIDAWM LDILK, FQIQDISVETEDNKEK, DVE DEILWVGER, VAVVNQIAR, TQILA ASYELHK, DGLNEAWADLLELIDT R, EIEELQSQAQALSQEGK	INAVVETGR, VQAVVAVAR, AQTLPT SVVTITSESSPGK, WVNSHLAR, EM AELTR, KQQMLENQMEVR
IPI00111254.8	Q8R0G7	Spns1	Protein spinster homolog 1		STAEAFQIVLSHLLGDAGSPYLIGLI SDR, YLMCGGIAFWSLVTLGSSFIPR	
IPI00129164.1	Q91XH5	Spr	sepiapterin reductase		TVVNISSLCALQPYK, LLLINNAATLG DVSK	
IPI00470991.3	Q68FG3	Spty2d1	Protein SPT2 homolog		GVQSAAVQAFLR, QAALSSPK, KLAS NSHLSGR, MDFREILLIASK	
IPI00133374.5	Q64337	Sqstm1	Isoform 1 of Sequestosome-1		EHRPPCAQEAPR, VAVLFPTLRPGG FQAHYR	
IPI00886004.1		Srcap	PREDICTED: similar to Snf2-related CBP activator protein		GNWGPHLIIVPTSVMLNWEMELK, SEGSMVMVAIQDDLDLADSGPSGLE LTPPVVSLTPK, EGFWSLK, IFQLSEA HGALAPVYGTVEVLDLDFCTLPQPVASPIGPR	
IPI00136912.1	Q64674	Srm	Spermidine synthase		EPVQQLTQAQVEQMQLK, YQDIL VFR, KVLIIIGGGDGGVLR, NPSTNFR, VLIIGGGDGGVLR	EPVQQLTQAQVEQMQLK, ETCSLW PGQALSLQVEQLLHHR, NPSTNFR
IPI00222977.1	Q8BMA6	Srp68	Signal recognition particle 68 kDa protein	DLPDVQELITQVR, LASAFTEEQAVLYN QR, IFLLGLADNEAAIVQAESEETK, YLL LVLMDAER	FHLLSR, DLPDVQELITQVR, YANEV SSHGGASK	
IPI00316133.7		Srp72	signal recognition particle 72	AIELLQEFSDQHPENAAEIK, GTQGATA GASSELDASK, DIHTLAQLISAYSLVDP EK, LKPTDVALLAVIANNIITINK, VDVEA LENSFGATYIR, TEEALQLYNQIIK, EAV SDLEQLWK	AIELLQEFSDQHPENAAEIK, LKPT DVALLAVIANNIITINK	
IPI00387234.2	O70551	Srpk1	Serine/threonine-protein kinase SRPK1	FSAGNFLINPLEPK, LEESNSIGQDQTL TER, QDITQLEESIR, SAEHYTETALDEIR	FSAGNFLINPLEPK, HFTEDIQTR	

IPI00119695.1	Q9DBG7	Srpr	Signal recognition particle receptor subunit alpha	LITVNTPDLVLFVGEALVGNEAVD QLVK,NQGFDDVVLVDTAGR		
IPI00111271.1	P47758	Srprb	Signal recognition particle receptor subunit beta	AVVFVVDSAAFQR,DVAEFLYQVL IDSMALK		
IPI00605037.1	Q52K18	Srrm1	Isoform 1 of Serine/arginine repetitive matrix protein 1	APKPEPVPEPK,KVELSESEEDK GSK	VNLEVIKPWITK,KVDMASKVNLEVIK	
IPI00785240.1	Q8BT18	Srrm2	Isoform 1 of Serine/arginine repetitive matrix protein 2		TPAASAVNLAGAR,TAVAPSAVNLA DPR,PAVLSALDQSQSQPSK,LGLIQ EDVASSCIPR	
IPI00134300.1	P32067	Ssb	Lupus La protein homolog	DTNLLILFK,KITDDQQESLNK,MTALEA K,GSHVFTAAR,GFPTDATTDDIK,NAN NGNLLLR,SPSRPLPEVTDEYK,GQILNI QMR,PLPEVTDEYK,LMEVSADK,GFPT DATLDDIKEWLDDK,PLPEVTDEYKND VK,EDLHFLFSNHGEIK,EGIILFK,YKDT NLLILFKEDYFAK,LDEGWVPLETMIK, GSIFAVFDSIQSAK,YKDTNLLILFK,KFV EIPGQK,RSPSRPLPEVTDEYK,GKGN RPGYAGAPK,SPSRPLPEVTDEYKND VK,VLEGHAEK,ITDDQQESLNK,LTTDF NVIVQALSK	DTNLLILFK,NANNGNLLLR,GKGN RPGYAGAPK,GFPTDATTDDIKE WLDDKQILNIQMR,GNRPGYAG APK,LDEGWVPLETMIK,ICHQIEY YFGDFNLPR,YKDTNLLILFK,GSIF AVFDSIQSAK,GSHVFTAAR,ITDD QQESLNK,LTTDFNVIVQALSK	GQILNIQMR,GSHVFTAAR,LTTDFN VIVQALSK
IPI00110852.4	Q52PE3	Ssr1	Translocon-associated protein alpha, muscle specific isoform	PFGLVINLNYK,FLVGFTNK		
IPI00407571.2	Q08943-2	Ssrp1	Isoform 2 of FACT complex subunit SSRP1	SFDFEIETK,FYVPPTQEDGVDPV EAFQNVLSK,ADVQATGDAICIF R,FDEISFVNFR	LFLPHK,VALGHGLK,FGGQLLSFDI GDQPVFEIPLSNVSQCTTGK,VDNI QAGELTEGIWR,FYVPPTQEDGVDP VEAFQNVLSK	
IPI00116308.1	Q99L47	St13	Hsc70-interacting protein	LDYDEDASAMLR,GAAIEALNDGELQK ,AIEINPDSAQPYK,AIDLFTDAIK	LLGHWEEAAHDLALACK,LAILYA K,KGAAIEALNDGELQK,AIEINPD SAQPYK,AIDLFTDAIK	AIEINPDSAQPYK,AIDLFTDAIK
IPI00468418.2	O88811	Stam2	Isoform 1 of Signal transducing adapter molecule 2	HGELITVLDDSDANWWQGENHR,LNVI DDDVEEIKKSEPEPVYIDEKG		
IPI00749596.1	A2A5S3	Stau1	stau1 (RNA binding protein) homolog 1 isoform 1	NAAENMLEILGFK,SEISQVFEIALK,NL PVNFESLLTQVAR		

IPI00121514.3	Q60864	Stip1	Stress-induced-phosphoprotein 1	FMNPFNLPNLYQK,LMDVGLIAIR,EPK PEPMEEDLPENK,LILEQMOKDPQALS EHLK,AMADPEVQQIMSDPAMR,DAIH FYNK,LILEQMOK,LAYINPDLALEEK,EL DPTNMTYITNQA AVHFEK,KFMNPFNL PNLYQK,SLLSDPTYR,AAALEFLNR,R AMADPEVQQIMSDPAMR,EGLQNMEA R,LDPQNHVLYSNR,LLEFQLALK,KEP KPEPMEEDLPENK,LILEQMOKDPQAL SEHLKNPVIAQK,DPQALSEHLK,VMTT LSVLLGVDLGSMDDEEEEAATPPPPPP PK,SLLSDPTYRELIEQLQNKPSDLGTK ,TYEEGLKHEANLQLK,KAAALEFLNR FEEAK,AKELDPTNMTYITNQA AVHFE K,HEANLQLK,ELIEQLQNKPSDLGTK	HYTEAIK,DPQALSEHLK,AAALEF LNR,ALSAGNIDDALQC YSEAIK,L AYINPDLALEEK,LDPQNHVLYSN R,LLEFQLALK,LMDVGLIAIR,ALD LDSSCK,ELIEQLQNKPSDLGTK	HYTEAIK,DPQALSEHLK,AAALEFLN R,DCEECIQLEPTFIK,NPVIAQK,FM NPFNLPNLYQK,ALSAGNIDDALQC YSEAIK,LAYINPDLALEEK,LLEFQLA LK,HEANLQLK,ELIEQLQNKPSDL GTK,AAALEAMK
IPI00551236.3	P54227	Stmn1	Stathmin	RASGQAFELILSPR,DLSLEEIQK,DLSL EEIQKLEAAEER,SKESVPDFPLSPPK ,ASGQAFELILSPR,ELEKRASGQAFELI LSPR,ESVPDFPLSPPK	KDLSLEEIQK,DLSLEEIQK,ASGQ AFELILSPR	AIEENNNFSK,ASGQAFELILSPR,SH EAEVLK,ESVPDFPLSPPK
IPI00115117.1	Q99JB2	Stom12	Stomatin-like protein 2		NTVILFVPQQEAWVVER,ILEPGL NVLIPVLDLDR,AEQINQAAGEASAV LAK,APVPGAQNSSQSR	ILEPGLNVLIPVLDLDR,AEQINQAAGEA SAVLAK,DSNTVLLPSNP SDVTSMV AQAMGVYGALTK,ATVLESEGTR
IPI00130670.1	Q9Z1Z2	Strap	39 kDa protein	TVDFQTQDSNYLLTGGQDK,FSPDGELY ASGSEDGTLR,VWDAVSGDELMTLAH K,SIAFHSAVSLLEPIK,YDYNSGEELESY K,SFEAPATINSASLHPEK,QGDTGDWI GTFLGHK		
IPI00554884.1	Q5BKR9	Strn	Striatin, calmodulin binding protein	ETAMIGKSEL TDSASVLDNFK,SELTDS ASVLDNFK,STSLDVEPIYTFR		
IPI00471361.3	Q9WUD1	Stub1	STIP1 homology and U box-containing protein 1	LNFQDDIPSALR,SPLTQEQLIPNLAMK ,YMADMDELFSQVDEK		
IPI00406442.2	Q9WUM5	Suclg1	succinate-CoA ligase, GDP-forming, alpha subunit, isoform CRA_a			ISALQSAGVVVSMSPAQLGTTIYK,A KPVVSFIAGITAPPGR,HIYIDK,HLGL PVFNTVK
IPI00408957.3	Q9CX34	Sugt1	Suppressor of G2 allele of SKP1 homolog	LLHPIIPEQSTFK,LDSTDTNFDTWIK,S FMESGGTVLSTNWSVDVGKR,LFQQIY SDGSDEVKR,LFQSFSDALIDGDPQAA LEELTK,LFQQIYSDGSDEVK,IKYDWY QTESHVIITLMIK,DYASALETFAEGQK, SFMESGGTVLSTNWSVDVGK,YDWYQ TESHVIITLMIK	LEGQGDEPTPK,LFQSFSDALIDG DPQAALEELTK	LLHPIIPEQSTFK,LDSTDTNFDTWIK ,AYCHILLGK,LFQSFSDALIDGDPQA ALEELTK,SFMESGGTVLSTNWSVDV GK

IPI00120344.2	Q920B9	Supt16h	FACT complex subunit SPT16		VEALTKEELEFEVPFR,TYALFIGD TVLVEDEGPATILTSVK,TLMVDP TQEVQENYNFLLQLQEELLK,HTD VQFYTEVGEITDGLK,AASITSEV FNK,GDKVDILYNNIK,NFDMVIVY K,NEGNIFPNPEATFVK,NVGIFLK, KAASITSEVFNK,ELAAQLNEEAK, APGEQTPALNLQNAFR	INFYCPGSALGR,TLMVDPTQEVQE NYNFFLLQLQEELLK,IIFMASKK,ICDV YNSVMDVVK,NEGNIFPNPEATFVK, NVGIFLK,APGEQTPALNLQNAFR
IPI00656221.1	O55201	Supt5h	Isoform 1 of Transcription elongation factor SPT5			HLVLAGGSKPR,HLVLAGGSK
IPI00454050.1	Q62383	Supt6h	Transcription elongation factor SPT6		LIICNVTGIAHR,VLGIAFSSAR,LK DLDLDAFAEELER,IKEDGDEEGE GEEAEDEEQRGPELK,RPQGESY DQAIR,KLEELLIK,VNEVGVDVNR, KPHVVTIAGENR	KFLVNK,DHPVFCALVNGEGEVTDF LR,KPHVVTIAGENR
IPI00406117.1	Q7TMK9	Syncrip	Isoform 1 of Heterogeneous nuclear ribonucleoprotein Q	VAEKLDEIYVAGLVAHSDLDER,SENQ EFYQDTFGQQWK,KYGGPPPSVYS GQQPSVGTEIFVGK,TGYTLDVTTGQR ,NLANTVTEEILEK,YGGPPPSVYSGQ QPSVGTEIFVGK,EFNEDGALAVLQQF K,VWGNVGTVEWADPIEDPDPEVMAK ,LDEIYVAGLVAHSDLDER,AGPIWDLR, LMMDPLTGLNR,VTEGLTDVILYHQPD DK,DLFEDELVPLFEK,QTNNQNWGSQ PIAQQPLQGGDHSGNYGYK,DLEGENI EIVFAKPPDQK	TGYTLDVTTGQR,NLANTVTEEIL EK,EFNEDGALAVLQQFK,LDEIYV AGLVAHSDLDER,AGPIWDLR,DS DLSHVQNK,VTEGLTDVILYHQPD DK,GYAFVTCTK,LFVGSIPK,DLF EDELVPLFEK,TKEQILEEFSK,LY NNHEIR,DLEGENIEIVFAKPPDQK ,HIGVCISVANNR	TGYTLDVTTGQR,NLANTVTEEILEK ,LFVGSIPK,DLFEDELVPLFEK,EFN EDGALAVLQQFK,EEAQEAVK,AGPI WDLR,HIGVCISVANNR,DSDLSHVQ NK
IPI00403993.5		Syne1	synaptic nuclear envelope 1 isoform 3	DLKAFESWLEQEQEKDR,EQVTTLED TLEEDIK,MLFDEVQFK,QSPPPGMAQ HLLMDHLAICSELEAK,PDVLSQELGIA EDQMR,LPVQDPVRDTCGACHTALK, RQIHENQGGCCGLIDLVR		ECHPPVAETLSSTLQEVNMR,RDLQ EQMEQAQQGGQAGPGQEELR,DIT AWLINVEESLTR,KNEIVPIDSTLDPE TLQDHHK,QDILLMK,QLMQIK,QEG GLQK,RQIHENQGGCCGLIDLVR
IPI00845851.1		Syne2	synaptic nuclear envelope 2			MESLEMALQIVLPLEK,HSMTVLEN QIGCLTPELSELKR,ESFIDVLSLK,E LEVSILR
IPI00465585.1		Tacc2	transforming, acidic coiled-coil containing protein 2 isoform c	IGSTEVEKPPGLLFQQPDLSALQVAR ,SPASFEIPASTTEADGDGLNKPAK		
IPI00757998.1	Q99LH8	Tacc3	Tacc3 protein	ENQRPLAPVDDAPVVQMAAEILR,GLL PAEPIVDVLK		
IPI00876056.1		Taf15	62 kDa protein	AAIDWFDGK,NGDWVCPNPSCGNMN FAR		
IPI00226515.5	P37804	Tagln	Transgelin	TDMFQTVDLYEKG,AAEDYGVIK		VPENPPSMVFK,TLMALGSLAVTK,L GFQVWLK

IPI00125778.3	Q9WVA4	Tagln2	transgelin	EDVGQPQPGR,GASQAGMTGMGCHG DPLIILSLLPLPSMNG,LINSLYPEGQAP VK,LINSLYPEGQAPVKK,QMEQISQFL QAAER,TLMNLGGLAVAR	NMACVQRTLMLNLGGLAVAR,YGI NTTDIFQTVDLWEGK,LINSLYPE GQAPVK	EDVGQPQPGR,YGINTTDIFQTVDL WEGK,DDGLFSGDPNWFPPK,LINSL YPEGQAPVK,TLMNLGGLAVAR
IPI00124692.1	Q93092	Taldo1	Transaldolase		TIVMGASFR,LFVLFGAELK,SYEP QEDPGVK,ALAGCDFLTISP,K,LIE LYK,VSTEVDAR,LGGPQEEQIK,L LGELLK,IHLDEK,KLGGPQEEQIK, MESALDQLK	ILDWHVANTDK,ALAGCDFLTISP,K,L GGPQEEQIK,VSTEVDAR,LLGELLK, IHLDEK,LSSTWEGIQAGK
IPI00121758.1	Q921F2	Tardbp	TAR DNA-binding protein 43	DYFSTFGEVLMVQVK,FGGNPGGFGN QGGFGNSR,AFAFVTFADDK,TSDLIVL GLPWK,LVEGILHAPDAGWGNLVYVV NYPK	GISVHISNAEPK,FGGNPGGFGN QGGFGNSR,DYFSTFGEVLMVQV K,VAQSLCGEDLIK,AFAFVTFAD DK,LVEGILHAPDAGWGNLVYVV NYPK,TSDLIVLGLPWK	VAQSLCGEDLIK,VTEDENDEPIEIP SEDDGTVLLSTVTAQFPGACGLR
IPI00468688.4	Q9D0R2	Tars	Threonyl-tRNA synthetase, cytoplasmic	NELSGALTGLTR,IYGISFPDPK	NELSGALTGLTR,NAQLAQYNFIL VVGK,LKAEHDSILAEK,ASGTVN IR,FLGDIEIWNQAEK,MIILTENY GGK,GAYIYNTLMEFIR	NELSGALTGLTR,QQFHDAK,QVMV VPVGPTCDEYAQK,ASGTVNIR,IYGI SFPDPK,TPYQIACGISQGLADNTV VAK,LADFGVLHR
IPI00222972.5	P48428	Tbca	Tubulin-specific chaperone A	LEAAYTDLQQILESEKDLLEEAEYK,RL EAAYTDLQQILESEK,LEAAYTDLQQIL ESEK		
IPI00315948.3	Q9D1E6	Tbcb	Tubulin-folding cofactor B			IHVIDHSGVR,AQASAI SVGSR
IPI00124057.1	Q8VE90	Tbl3	Transducin (beta)-like 3			VNILDVASGALLR,LWPLPEALLANK ,LWALPQCQLLVGFTGHR
IPI00121887.5	P10711	Tcea1	Isoform 2 of Transcription elongation factor A protein 1	NAAGALDLLKELKNIPMTLELLQSTR,N IPMTLELLQSTR,TGDDYVAIGADEEEL GSQIEEAIYQEIR		
IPI00471277.1	Q8CGF7	Tcerg1	Isoform 1 of Transcription elongation regulator 1	RGPPPPPR,EALFNEFVAAAR,EEAIQN FKALLSDMVR		
IPI00830311.1		Tcf3	transcription factor E2a isoform 1	TSPDEDEDLLPPEQKAEREK,VSGVV GDPQLALSAAHPGLGEAHNPAGHL,K VPPGLPSSVYPPSSGDSYSR		
IPI00817019.1	A1A549	Tcf711	transcription factor 3 isoform 1	WPLLDVPSSATVK,QLSQTQSQQIQ EAEGALASK,SSLVNESENQSSSSDSE AERR		
IPI00408190.1	Q7TPZ2	Tcof1	Tcof1 protein (Fragment)			AGAVTSSASLSSPALAK,SFLTQPVT LLDIYTHWQQTSELGQK,PTPVNSA TAALPSK,EASSGSTPQKPK,LLEQA WPLSEAQVQASVVK
IPI00118678.1	P11984	Tcp1	T-complex protein 1 subunit alpha A			IACLDLFLQK,LLEVEHPAAK,GDVTI TNDGATILK,LGVQVVITDPEK,IIGIN GDYFANMVDVAVLAVK,TSASILR,V LCELADLQDK,QAGVFEPTIVK,ILAT GANVILTTGGIDDMCLK,FATEAAITI LR,WIGLDLVHKG,SLHDALCVVK,IC DDELILIK,HGSYENAVHSGALDD,AF HNEAQVNER,IHPTSVISGYR

IPI00459493.5	P11983	Tcp1	Isoform 1 of T-complex protein 1 subunit alpha B	IACLDFSLQK,SQNVMAAASIANIV K,YFVEAGAMAVR,SLLVIPNTLAV NAAQDSTDLVAK,GDVTITNDGAT ILK,EQLAIAEFAR,EQLAIAEFARS LLVIPNTLAVNAAQDSTDLVAK,IIG INGDYFANMVVDAVLAVK,TSASII LR,LGVQVVITDPEK,ILATGANVIL TTGGIDDMYLK,EVGDGTTSVVIIA AELLK,SVVPGGGAVEAALSIYLE NYATSMGSR,VLCELADLQDKEV GDGTTSVVIAAELLK,YINENLIINT DELGR,LGVQVVITDPEKLDQIR,F ATEAAITILR,SLHDALCVVK,ICDD ELILIK,AFHNEAQVNPER,IHPTSV ISGYR,YPVNSVNILK	IACLDFSLQK,LLEVEHPAAK,GDVTI TNDGATILK,LGVQVVITDPEK,IIGIN GDYFANMVVDAVLAVK,TSASII LR, VLCELADLQDK, QAGVFPEPTIVK,SSFPGVGLDK,FAT SLHDALCVVK,WIGLDLV HGSYENAVHSGA IHPTSVISG YR,YPVNSVNILK
IPI00331660.5	Q8K3F7	Tdh	L-threonine 3-dehydrogenase, mitochondrial	VLITGGLGQLGVGLANLLR,LFVP STIGAFGPTSPR,HDFDLPELVAT MLNFHGVSTR,DNVILSDIR,DVNI TGLHNVLDVAAEYNVR,YPGIISA DSQPGGGTTDYAVQIFHAAAK	VLITGGLGQLGVGLANLLR,LFVPSTI GAFGPTSPR,DNVILSDIR,QAI AES WPMILDDSNAR,NPAPDL CIQR, YPG IISADSQPGGGTTDYAVQIFHAAAK
IPI00875068.1	Q52L67	Tecr	Gpsn2 protein	LPVGTATLYFR,LLETLFVHR	
IPI00457624.2		Tet3	hypothetical protein LOC194388		DPNTCGASFSFGCSWSMYFNGCK, SLLDTPAK,SMAMEGGQGRPR,QEP IDPLTQAESIPR
IPI00458057.3	Q3URQ0	Tex10	Tex10 protein	LVQLLYFLPTLPADLLSQLSR,NPE LSTQLIDIIHTAASQANK,VLDILLE HYPALITGR,LIQMQPNR	NPELSTQLIDIIHTAASQANK,ASPEE LPVVGQLLR,EPLQVMQQVLNVISLL WK,WLAGLPLQLSYLGSR,LA AVQL LQFLAPK
IPI00124700.1	Q62351	Tfrc	Transferrin receptor protein 1	VEYHFLSPYVSPR,LTTDFHNAEK ,VVLGTSNFK,AGEITFAEK,DALG AGVAAK,HIFWGSGSHTLSALVEN LK,SSVGTGLLLK,AFTYINL DK,TA AEVAGQLIIK,LELSQNNVK,LDT YEALTQK,DESLAYYIENQFHEFK, YVVVGAQR,LNSIEFADTIK,ILNIF GVIK,SAFSNLFGGEPLSYTR,VAN AQSFNAIGVLIYMDK	

IPI00114407.2	O08583	Thoc4	Isoform 1 of THO complex subunit 4	SLGTADVHFER,PMNIQLVTSQIDTQR, WQHDLFDSGFGGGAGVETGGK,NSK QQLSAEELDAQLDAYNAR,QQLSAEEL DAQLDAYNAR,KADALK,QYNGVPLDGLL RPMNIQLVTSQIDTQR,QQLSAEELDA QLDAYNARMDTS,NSKQQLSAEELDA QLDAYNARMDTS,LLVSNLDFGVSDAD IQELFAEFGTLK,LLVSNLDFGVSDADI QELFAEFGTLK,MDMSLDDIIK	LLVSNLDFGVSDADIQELFAEFGT LK,LLVSNLDFGVSDADIQELFAE GTLKK	SLGTADVHFER,PMNIQLVTSQIDTQ R,RPAQSINR,LLVSNLDFGVSDADI QELFAEFGTLK
IPI00322150.8	Q8C1A5	Thop1	Thimet oligopeptidase		LSLLCIDFNK,ALTTQLIEQTK,ALA DVEVTVYTVQR,EELGGLPEDFLSS LEK	NILDFPQHVSPCK,ALTTQLIEQTK,E ELGGLPEDFLSSLEK,EYFPMQVVT R,TSQTVATFLDELAQK
IPI00556768.1	Q569Z6	Thrap3	Thyroid hormone receptor-associated protein 3		SIFQHIQSAQSQR,EESAASGGAA YSK,SPSELFAQHIVTIVHHVK	SIFQHIQSAQSQR,KSPEIHR,SPSEL FAQHIVTIVHHVK
IPI00467123.2	Q9R1X4	Timeless	Isoform 1 of Protein timeless homolog			QQLGAAQILQSDLLPILTQHR,QAAQ ELSVHRRSVLNVR,EAASWARR
IPI00134484.1	P62075	Timm13	Mitochondrial import inner membrane translocase subunit Tim13		LDPGAIMEQVK,VQIAVANAQELL QR	
IPI00132169.1	P62077	Timm8b	Mitochondrial import inner membrane translocase subunit Tim8 B		FAQIVQK,LVAAEQQK,FIDTTLAIT GR	
IPI00125513.1	Q9WV98	Timm9	Mitochondrial import inner membrane translocase subunit Tim9		FQEYHIQQNEALAAK,AGLLGQPR ,EVKPEEVTCEHCLQK	
IPI00221741.1	Q8BH58	Tip1	TIP41-like protein	IANLMHVPPSLFTEPNEISQYLPIK,FFE EVLLFEDELHDHGVSSLSVK		
IPI00874522.1		Tjp1	195 kDa protein	VAMVNGVSMDNVEHAFVQQLR,DDI SEIQSLASDHSGR,AEQLASVQYTLPK, AHSSTQPPEFDSGVETFSVHTDKPK,V NNVDFTNIIR,YEVSSYTDQFSR,DNPH FQSGETSIVISDVLK,LPEPQKQVKPP EDIVR,EAGFLRPVTIFGPIADVAR,LNY AQWYPIVVFLNPDSK,IVESDVGDSFYI R,EEAVLFLLDLPK,FHNHLLPSETVHK PELSSK		
IPI00323349.2	Q9Z0U1	Tjp2	Tight junction protein ZO-2	EDAVLYLLEIPK,GFEVIEEFDGR,VFLR PSPEDAIIYGPNTK,LATELPDLFQTAK ,VVMVNGTPMEDVLHSAVQQLR,QQ YSDQDYHSSTEK,PILKPSTPVPMPES EEVGESTEEQEDAPR,SYHEAYEPDY GGGYSPSYDR	GETVTILAQSR,SSEPVQHEENIR, LQLVVLR	AVDLLNYTQWFPVIVFFNPDSR,MSY LTAMGADYLSCDLR,LATELPDLFQ TAK,INGTVTENMSLTDAR,KGDSV LR

IPI00137409.3	P40142	Tkt	Transketolase	<p>DAIVQAVK,SKDDQVTVIGAGVTLHEAL AAAESLK,GHAAPILYAVWAEAGFLPE AELLNLR,ILTVEDHYEYEGGIGEAVSAA VVGEPGVTVTR,TSRPENAIYSSNNEDF QVGQAK,AVELAANTK,ILATPPQEDAP SVDIANIR,VLDPFITIKPLDR,GITGIEDK, NMAEQIIQEIYSQVQSK,LDNLVAIFDIN R,IIALDGDTK</p>	<p>MFGIDKDAIVQAVK,TSRPENAIY SSNEDFQVGQAK,AVELAANTK,I SSDLDGHPVVK,VLDPFITIKPLDR, HQPTAIIAK,TVPFCSTFAAFFTR,L DNLVAIFDINR,IIALDGDTK,KISSD LDGHPVVK,SKDDQVTVIGAGVTL HEALAAAESLK,ILTVEDHYEYEGGI GEAVSAAVVGEPGVTVTR,GHAA PILYAVWAEAGFLPEAELLNLR,IL ATPPQEDAPSVDIANIR,FIETYIAE QNMVSIAVGCATR,GITGIEDK,KLI LDSAR,NMAEQIIQEIYSQVQSK,L GQSDPAPLQHQQVDIYQK,SKDDQ VTVIGAGVTLHEALAAAESLKK,LA VSQVPR,EAWHGKPLPK</p>	<p>GHAAPILYAVWAEAGFLPEAELLN R,AVELAANTK,ISSDLDGHPVVK,IL ATPPQEDAPSVDIANIR,HQPTAIIAK ,LGQSDPAPLQHQQVDIYQK,NMAEQI IQEIYSQVQSK,TVPFCSTFAAFFTR, SGKPAELLK,LAVSQVPR,EAWHGK PLPK</p>
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IPI00465786.3	P26039	Tln1	Talin-1	<p>KSTVLQQQYNR,GVGAATAVTQ ALNELLQHVK,ISIGNVVK,EVANS TANLVK,ALEATTEHIR,TLAESAL QLLYTAK,AIAVTVQEMVTK,TYGV SFFLVK,VQELGHGCSALVTK,AL STDPASPVLK,VLVQNAAGSQEK, LAQAAQSSVATITR,NLGTALAE R,DPVQLNLLYVQAR,GTEWVDP EDPTVIAENELLGAAAAIEAAAK,G VAALTSDDPAVQAVLDTASDVLDK ,LGAASLGAEDPETQVVLINAVK,A AAFEDQENETVVVK,LLAALLEDE GGNGRPLLQAAK,PAAVAAENEEI GAHIK,KLEQLK,EVIQEWSLTNIK, TSTPEDFIR,ALGDLISATK,EADES LNFEQILEAAK,ILAQATSDLVNAI K,SIAAATSALVK</p>	<p>GVGAAATAVTQALNELLQHVK,AVT QALNR,TLAESALQLLYTAK,AATAP LLEAVDNLSAFASNPEFSSVPAQIS PEGR,KLEQLK,APGQLECEIAAAL NSCLR,GTEWVDPEDPTVIAENELL GAAAAIEAAAK,GVAALTSDDPAVQAV LDTASDVLDK,GAAHPDSEEQQ QR,TSTPEDFIR</p>
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IPI00875190.2		Tm9sf4	82 kDa protein		ITEEYVHLIADNLPVATR,LGFTD VNK	
IPI00466570.4	Q9D1D4	Tmed10	Isoform 1 of Transmembrane emp24 domain-containing protein 10		IPDQLVILDMK,DLLVTGAYEITDQ SGGAGGLR	
IPI00131606.2	P52875	Tmem165	Transmembrane protein 165		LLNGPDVETGTSTAIPQKK,SQLT TIVLAAR	
IPI00119478.1	Q9JHJ0	Tmod3	Tropomodulin-3	DLGDYKDLDEDELLGK,QLETVLDLDD PENALLPAGFR,SNDPVAVAFADMLK		
IPI00828976.1	Q3UCI5	Tmpo	thymopoietin isoform epsilon	GPPDFSSDEEREPTPVLGSGASVGR, LEDKDDLDTVELSNEELLQVLR,IDGA VISESTPIAETIK,HASSILPITEFSDITR	NRPLAAGANSK,DVYVQLYLQH LTAR,ASSNESLVANR	IDGAVISESTPIAETIK,HASSILPITEF SDITR,YGVNPGPIVGTTR,ASSNES LVANR

IPI00896574.1	B2RUB9	Tmpo	thymopoietin isoform alpha	LEDKDDLDVTELSNEELLDQLVR,GPP DFSSDEEREPTPVLGSGASVGR,VDD EILGFISEATPR	YGVNPGPIVGTTTR,DCVPFSELAST PSGAFFQGISFPEISTRPPLGR
IPI00754323.1	Q9WUU8-3	Tnip1	Isoform 3 of TNFAIP3-interacting protein 1	NQSSQVMDPPPDRPAEPEPADLR,YL QDQLSPLTR	
IPI00221523.4	Q8BFY9	Tnp1	Isoform 1 of Transportin-1	DELLPHILPLLK,ATVGILITTIASK, ALVMLLEVR,TLLENTAITIGR,YS IDIILLK	MEYEWKPEQGLQQILQLLK,FLQF FK,SLSGLILK,GELQNWPDLLPK,TL LENTAITIGR,FSDQFPLPK,LGYVC PQEVAPMLQQFIRPWCTSLR
IPI00337947.10	B1ATC3	Tnrc6c	trinucleotide repeat containing 6C	YDLIQNSESPASPPVAVPHSWSR,KND NGTEAWGSIATQPSNSGGK	
IPI00353237.8	Q5SSZ5	Tns3	Isoform 1 of Tensin-3	YVQFLSGLLSGAMK,HVVPAQVHVNG DAALKDR,FPDYGKIELVFSATPEK,ST VDNTGLAQPPHIPVTPNR	
IPI00652758.1	Q3UDC3	Tom1	target of myb1 homolog isoform 2	LPNLASPSAEGPPRPSPGTAPR,YEAP QTTDGLAGALDAR	
IPI00315135.3	Q9CPQ3	Tomm22	Mitochondrial import receptor subunit TOM22 homolog	SAAGATFDLSLFAQK,LQMEQQ QQLQQR,AEAEKAELEEEDDDD ELDETLSE	
IPI00165694.1	Q9CYG7	Tomm34	Isoform 1 of Mitochondrial import receptor subunit TOM34	SSLSDISSLLQIEPR,TVLQIDNSVASAL EGINR	SSLSDISSLLQIEPR,LPPIVVPVSA QK,TVLQIDNSVASALEGINR,LKLPP IPVVPVSAQK
IPI00474157.4	Q9QYA2	Tomm40	Mitochondrial import receptor subunit TOM40 homolog		LPPLPLTSLCAFLNHR,KLPLPLTL SLCAFLNHR
IPI00133289.1	Q9D173	Tomm7	Mitochondrial import receptor subunit TOM7 homolog	GGQFAIR,GADPGMPEPSVLSLL WG	
IPI00751137.1	Q3TSX8	Tomm70a	Putative uncharacterized protein	ATFYLLIGSANAAPDLDK,LLQL QWK,AAAFEQLQK,ILLDLVEEAVA DFDACIR,YMAEALLLR,NVDLSTF YQNR,NREPLMPSPQFIK,SDEDK DKEGEALEVK	
IPI00109764.2	Q04750	Top1	DNA topoisomerase 1	VEHINLHPELDGQEYVVEFDFFPGK,GP VFAPPYEPLPESVK	LEVQATDREENK,LNTGILNK,LRD EDDADYKPK,AEEVATFFAK,AVA LYFIDK,VEHINLHPELDGQEYVVE ILNK,QIALGTSK FDFFPGK,GPVFAPPYEPLPESVK

IPI00122223.1	Q01320	Top2a	DNA topoisomerase 2-alpha	YDTVLDILR,IFDEILVNAADNK,FLEEFITPIVK	KVLFTCFKR,EKQDEQVGLPGK,D KVDETGNSLK,SENVETPAEDG AEPGSLR,TLAVSGLGVVGR,EDL AVFIEELEVVEAK,VIPQVTVEMK,I VIENKPK,IFDEILVNAADNK,AKGE EQDFPVDLEDTIAPR,VIHEQVNP R,AAIGCGIVESILNWWK,KYDTVL DILR,NSTECTLILTEGDSAK,KLLG LPEDYLYGQSTSYLTYNDFINK,R AYDIAGSTK,TPSLITDYR,GFQQIS FVNSIATSK,IKSENVETPAEDG AEPGSLR,ELILFNSDNER,IYVP ALIFGQLLTSSNYDDDEKK,SYVD LYLK,NEKEQELNTLK,IMIMTDQD QDGSNIK,HVDYVADQIVSK,YIFT MLSPLAR,YGVFPLR,YDTVLDILR, IYVPALIFGQLLTSSNYDDDEK,AY DIAGSTK,SFGSTCQLSEK,VTIDP ENNVISIWNNKG,FTVETASR,LCN IFSTK,FLEEFITPIVK	EVTFVPGLYK,IYVPALIFGQLLTSSN YDDDEKK,DKVDETGNSLK,EVVNNI R,QTTLPPFKPVK,TLAVSGLGVVGR,I VIENKPK,AAIGCGIVESILNWWK,YG VFPLR,GFQQISFVNSIATSK,VLFTC FK,VTIDPENNVISIWNNKG,FTVETA SR,FLEEFITPIVK
IPI00625441.3		Tpd52	tumor protein D52 isoform 1	VEEEIQTLTSLVLAQK,LGSSSLQEFK,EL TKVEEEIQTLTSLVLAQK,GWQDVTATN AYK,ASAAFSSVGSVITK,TEPVAEEGE DAVTMLSAPEALTEEEQEELRR	TSETLSQAGQK,LGSSSLQEFK,VEE EIQTLTSLVLAQK,HLAELKR	
IPI00309878.4	B2RUC1	Tpd52l1	Tpd52l1 protein	AELIQLEDEITTLR,LGMNLMNELK		
IPI00755183.1	A2AUD5	Tpd52l2	Tumor protein D52-like 2	GVLSDFMVDVDPVDPGVVHR,SWHDV QVSTAYVK,TPVVEGLTEGEEELRAE LAK,LGLSTLGELEK,TPVVEGLTEGEE ELR,TSALSTMGSAISR		
IPI00467833.5	P17751	Tpi1	Triosephosphate isomerase	VVLAYEPVWAIGTGK,VIADNVK,ELAS QPDVDGFLVGGASLKPEFVDIINAK,DL GATWVVLGHSER,VVFEQTK,HVFGES DELIGQK,EAGITEK,TATPQQAQEVHE K	VVLAYEPVWAIGTGK,SNVNDGV AQSTR,VIADNVK,IAVAAQNCYK, ELASQPDVDGFLVGGASLKPEFV STR,IAVAAQNCYK,ELASQPDVDGF LVGGASLKPEFVDIINAK,IYGGSVT GATCK,VTNGAFTGEISPGMIK,TAT EGLGVIACIGEK,HVFGESDELIGQ PQQAQEVHEK K,TATPQQAQEVHEK	
IPI00831423.1		Tpm1	29 kDa protein	RIQLVEEELDR,LATALQKLEEAKEAAD ESER,ETAADVASLNR,IQLVEEELDR, LVIIESDLR,SLQEQADAAEER,RIQLV EEELDRAQER,SIDDELELYAQK		

IPI00403987.2	Q8BP43	Tpm1	tropomyosin 1, alpha isoform 5	RIQLVEEELDR,LATALQKLEEAKEAAD ESER,GTEDELDKYSEALKDAQEK,QL EDELVSLQK,IQLVEEELDR,LVIIESDLE R,RIQLVEEELDRAQER,SIDDELELY AQK,GTEDELDKYSEALK	KYEEVAR,QLEDELVSLQK,IQLVEE ELDR,AELSEGQVR
IPI00874728.1	P58774-2	Tpm2	Isoform 2 of Tropomyosin beta chain	RIQLVEEELDR,LATALQKLEEAKEAAD ESER,KLVILEGELER,IQLVEEELDR,E ENVEIHQTLTDQTLLELNNL,RIQLVEEE LDRAQER,LVILEGELER,TIDDEETLA SAK	
IPI00459570.1	Q8C7C3	Tpm3	Putative uncharacterized protein	RIQLVEEELDR,LVIIEGDLERTEER,LA TALQKLEEAKEAADESER,EQAEAEVA SLNR,IQVLQQQADDAEERAER,IQLVE EELDR,RIQLVEEELDRAQER,AISDEL DHALNDMTSI,TIDDELELYAQK,KLVII EGDLER,LVIIEGDLER,LVIIEGDLERTE ERAELAESR,ALKDEEKMELQEIQLK,K IQVLQQQADDAEER	YSQKEDKYEIIIK,EQAEAEVASL NR,IQLVEEELDR,KLVIIEGDLER,L VIIEGDLER,KIQVLQQQADDAEE R
IPI00230044.5	P21107-2	Tpm3	Isoform 2 of Tropomyosin alpha-3 chain		YSQKEDKYEIIIK,EQAEAEVASL NR,IQLVEEELDR,KLVIIEGDLER,L VIIEGDLER,KIQVLQQQADDAEE R
IPI00278611.7	P21107	Tpm3	Isoform 1 of Tropomyosin alpha-3 chain	RIQLVEEELDR,LVIIEGDLERTEER,LA TALQKLEEAKEAADESER,GTEDELDK YSEALKDAQEK,TIDDELELYAQK,KL VIIEGDLER,IQLVEEELDR,LVIIEGDLE R,RIQLVEEELDRAQER,AISDELHAL NDMTSI,GTEDELDKYSEALK,ALKDEE KMELQEIQLK	KLVIIEGDLER,LVIIEGDLER
IPI00169707.2		Tpm3	Tropomyosin 3, gamma	LVIIEGDLERTEER,RIQLVEEELDR,LA TALQKLEEAKEAADESER,MLDQTLDD LNEM,GTEDELDKYSEALKDAQEK,KL VIIEGDLER,IQLVEEELDR,LVIIEGDLE R,RIQLVEEELDRAQER,LVIIEGDLERT EERAELAESR,GTEDELDKYSEALK,AL KDEEKMELQEIQLK	KLVIIEGDLER,LVIIEGDLER
IPI00421223.3	Q6IRU2	Tpm4	Tropomyosin alpha-4 chain	RIQLLEEELDR,LVILEGELK,AQEQLAT ALQNLEEA EK,AMKDEEKMEILEMQLK ,KIQALQQQADDAEDRAQGLQR,IQLLE EELDR,MEILEMQLK,IQALQQQADDAE DRAQGLQR,KLVILEGELK	KYEEVAR,AQEQLATALQNLEEA EK, EENVGLHQTLTDQTLNELNCI
IPI00469194.2	Q64514	Tpm2	Isoform Long of Tripeptidyl-peptidase 2		IPANWTNPLGK,SWVQTLRPVNAK, GTLIEAFPVLGGK

IPI00880644.1	Q7M739	Tpr	Translocated promoter region, isoform CRA_b	QGNLLLTNLQTIQGILER,DDVDDLKSQ LRQAEQVNDLK	TDELLALGR,ELQELQDSLNVRL AVAEVR,NQQLINQQK,LDELQAS DVAVK,DAVQAPLNVSLNEEGK,S QEQILEILR,LSQEVEYLTEDVKR, FKVESEQQYFEIEK,LKESAEFQT QLEK,ISTQLDFASK,LEHEISHLK, NIEELQQQNQR,KLLEEDVKR,VLL MELEEAR,SLEGQVENLQK,ASTA LSNEQQAR,QGNLLLTNLQTIQGI LER,IQQLNEEVGR,FEVAQVESL R,TLSTVQNEVQEALQR,LQEQVT DLR,TSTSNVEQYR,ELENANDLL SATK,KLENEVEQR,VELLER,YLD EIVK,LEHEISHLKK,FHNELNAHIK, HVEDLLTK,NLDVQLLDTK,LLHDDQ IEK	LTELYNAYVETQDQLLLEK,NQQLIN QQK,NLGIQSQFTR,QGNLLLTNLQT IQGILER,EIEELK,RPPHPLPPR,TL TVQNEVQEALQR
IPI00316430.4	Q3TQN1	Tpst2	tyrosylprotein sulfotransferase 2	PEQEELVMLGADHVEYRYGK,WNKAI EVMYAQCMEVGR		
IPI00420481.5	A2APB8	Tpx2	TPX2, microtubule-associated protein homolog	ALPVPHFDTINLPEK,SLAENPSGSLVQ EPFQLATER,TFDEAASTYVPIAQQVE AFHK		
IPI00377298.2		Tra2a	transformer-2 alpha	GFAFVYFER,YGPLSGVNVVYDQR,AN PDPNTCLGVFGLSLYTTER	GFAFVYFER,MSDVEENNFEGR	
IPI00139259.1	P62996	Tra2b	Isoform 1 of Transformer-2 protein homolog beta	YGPIADVSIVYDQQR,GFAFVYFENV DDAK,ANPDPNCCLGVFGLSLYTTER, RPHPTPGIYMGR	AAQDRDQIYR,YGPIADVSIVYDQ QSR,GFAFVYFENVDDAK	
IPI00850286.1		Trank1	similar to hCG2042887, isoform 4			LSAPEAGPPRR,KNDALLLAWNK,K KIILAIQQLGNGEWTQGLQK
IPI00132762.1	Q9CQN1	Trap1	Heat shock protein 75 kDa, mitochondrial		LDTHPAMVTVLEMGAAR,LRDVL QQR,AQLLQPTLEINPR,DISEFQH EEFYR,LNDLLVK,ESEPELAQLLV DQIYENAMIAAGLVDDPR,EGIVTT AEQDIK,GVVDSIEDIPLNLSR,AFL EALQNQAETSSK,YSNFVSFPLYL NGK,TDAPLNIR,YESSALPAGQLT SLPDYASR,ELLQESALIR,LISVET DIVVDHYKEEK,LISVETDIVVDHY K,LVCEGQVLPMEIHLQTDAAK,EL ISNASDALEK,KGTTIQDTGIGMT QEELVSNLGTIAR,EGIVTTAEQDI KEDIAK,SAAPESPGYQWLSDGGS GVFEIAEASGVRPGTK,LLDIVAR	AQLLQPTLEINPR,KLCQLR,VEVYS R,ESEPELAQLLVQIYENAMIAAGL VDDPR,AFLEALQNQAETSSK,GVV DSEDIPLNLSR,HEFQAETK,ELLQE SALIR,YESSALPAGQLTSLPDYASR

IPI00131130.1	Q64127	Trim24	Isoform Long of Transcription intermediary factor 1-alpha	LESYFEELLK,VPVVMLEPIR,FPTQISL AQLR,QNPVVEQSSQPPGGLPSNQLS K,MQGPIQQPSISHQHPPPR,YQFIEEA FQNQK	
IPI00312128.3	Q62318	Trim28	Isoform 1 of Transcription intermediary factor 1-beta	DHQYQFLEDAVR,EEDGSLSLDGADS TGVVAK,PLHQLATDSTFSMEQPGGTL DLTLIR,QGSGSSQPMEVQEGYGFSG DDPYSSAEPHVSGMK,LDLDTSDSQ PPVFK,FQWDLNAWTK,RPAASSAAAA SAAASSPAGGGGEAQELLEHCGVCR, VFPSTTETYDNLIVIER,PVLMPLTEGP GAEGPR,DCQLNAHKDQYQFLEDAV R,ADVQSIIGLQR,LSPPYSSPQEFAD VGR,IVAERPNTSTGPGMAPPR,EE ETEAAIGAPPAPEGPETKPVLMPLTE GPGAEGPR,EEETEAAIGAPPAPEGP ETK,DIVENYFMR,MAILQIMK,FASWAL ESDNTALLSK	EEDGSLSLDGADSTGVVAK,DHQY QFLEDAVR,LDLDTSDSQPPVFK,F QWDLNAWTK,FAVLVEPPPLNLP AGLSSQELSGPGDGP,RPAASSAA AASAAASSPAGGGGEAQELLEHCG VCR,LASPSGSTSSGLEVVAPEVTS APVSGPILDDSATICR,VLVNDAQK ,TVYCNVHK,KLLASLVK,SERGEVS GLLR,PVLMPLTEGPGAEGPR,ADV QSIIGLQR,IVAERPNTSTGPGMAP PPR,LSPPYSSPQEFADVGR,EEE TEAAIGAPPAPEGPETKPVLMPLT EGPGAEGPR,GAAAAAAGQAGTVP PGAPGAPPLPGMAIVK,MAILQIMK
IPI00409904.1	Q99PP7	Trim33	Isoform Alpha of E3 ubiquitin-protein ligase TRIM33	NVVNLGNLVIESK,TPGQINLAQLR,QID LVDNYFVK,VAIFTLININK	
IPI00622738.2	Q99KW3-2	Triobp	Isoform 2 of TRIO and F-actin-binding protein	GWMSILDEPGEWK,VPLTALLNQAHN DR,EWLLAEETAATASAIEAMK,SLAEM ESSHQVMEQLQR	
IPI00229927.2	Q8CJ53	Trip10	Isoform 1 of Cdc42-interacting protein 4	DQAHFYFSQMPQIFDK,QGAEGYVPT SYLR,TVATEDFSLPPEQQR,HTQWG LDLLDK,ELVAESLGIR,FSQQQSFVQL LQEVNDFAGQR,YEAWLAEAESR,LGA GYGLLSEAELQVPIIGK,VPSDSSLGT PDGRPELR	
IPI00380829.3	B2RY51	Trip11	Thyroid hormone receptor interactor 11	AESLEGKVLSLQERLDEANAALDSAS R,LDEANAALDSASRLTEQLDLK,NFG QELAQQVHSIGQLCNTK	
IPI00623570.3		Trip12	thyroid hormone receptor interactor 12		DIPVTIHNLEEYLR,IYFADAELLK, LFLQFVTGSPR
IPI00874743.1		Trmt6	59 kDa protein	MGGFGSIIQLYPGDGPVR,EIAEQADE DNIVDAAENNSGEQRPMEIVPGDPEN K,GEEIVQQLIENSTTFR,LLMSGGGGY LLSGFTVVSDSL	
IPI00719897.1	Q792Z1	Try10	trypsin 10	TLDNDIMLIKSSPVTLNAR,KTLNDNDIM LIK,TLDNDIMLIK,LGEHNINVLEGNEQ FIDAANIIKHPK	TLDNDIMLIK,LGEHNINVLEGNEQFI DAANIIKHPK
IPI00620969.2	Q61037	Tsc2	Isoform G of Tuberin		NFVPEQYASVFAISLPYTNPSK,VLL QCLK,EHGHPVQVIVSATGCTAKP PTLPR,KASGPLSPPTGPPSPVPMG PAVR

IPI00320543.5	Q8BMZ5	Tsen34	Isoform 1 of tRNA-splicing endonuclease subunit Sen34	LGLPLLLLPEEAR,FGGDFLVYPGDPL R	
IPI00113052.1	Q9CZR8	Tsfm	Elongation factor Ts, mitochondrial		VPSGFYVGSYVHGVTQSPSLQNLV LGK,FQQLVQQVALGTMHCQNLT DR
IPI00118729.1	Q99NF3	Tsga14	Isoform 1 of Centrosomal protein of 41 kDa	GFENLFMLSGGLK,LEDNDSATSEADA EIAAK	
IPI00664419.1	Q5DTH5	Tshz1	Teashirt homolog 1		QLVLDPVVEEK,PLQSAVQSVQIQP SYASSVK,GKQLVLDPVVEEKIQSIP LPPTTHTR,QSNWNPQHLLILQAQF ASSLR
IPI00124684.1	Q62348	Tsn	Translin		KVVQSLEQTAR,EILTLLQGVBHQG TGFQDIPK,VVQSLEQTAR,EAVT EILGIEPDR
IPI00130475.1	Q91Z38	Ttc1	Tetratricopeptide repeat protein 1	ASDDSSSELDEEYLIELEK,TDKLDEAL EDYK,DLGNLVLRFGLSTENFQIK,QD SSTGYSYINFVQNPNNNR	
IPI00466645.3	Q62187	Ttf1	Transcription termination factor 1	LLYTDRYPEEKTITNLK,NVQDFLSLT GIESADK,MYRDDLGRFK,SQELEPIPD SLDDSETISER	
IPI00845554.1	A4Q9F4	Ttll11	Isoform 1 of Tubulin polyglutamylase TTLL11	LKFDIRLYVLLK,NLKPMLLEVANPSM R,RSAGSMRPVTVDSK	
IPI00756257.1	A2ASS6	Ttn	Isoform 1 of Titin		WVTCASAVQK,PEATTVSVEVQET IPEK,THLTVMTDEQEDEGVYTCV ATNEVGEVSSSK,PSPVITWSKKG DLANR,KPEAPPPK,EVIPEKK,EAAP EKK,YSVTATNSAGTATENLSVIVLE K,KSEWEEVTNTAVER,RETSTAVW EEIPVQEPEPEKK,FDEVTAEAMT SEVSATVAR,KVSVVPPK,VEVYEK, LK,KVPVPVPK,KITPEEK,EPPSFV KPVPEEK,ILGYVEMQPK,NDAGM QKPDPMDLTGSNVFTTSIVK,KP FTQEPK,IDVPFIGR,KGFCQVNVVD VPEKK RPGPPVGPVIFDEVTK,SSAVLAWL K,LTVTLHPPPTETTLRPMFK,KLLPE PK,TPLNPPEPPSNPPEVLDVTK,VI EFLEAEEVEVYEK,IELSPSMEAPK,I PEAIPPK,KAEAKPK,RALQAAR

					YMACCLLYR,FDGALNVDLTEFQT NLVPYPR,EIIDLVLDLDR,DVNAAIATI K,LSVDYGKK,TIQFVDWCPTGFK, LADQCTGLQGFLVFHSGGGTG DVNAAIATIK,FDGALNVDLTEFQTN SGFTSLLMER,GHYTIGK,TIGGGD LVPYPR,TIQFVDWCPTGFK,GHYTI
IPI00110753.1	P68369	Tuba1a	Tubulin alpha-1A chain	EIIDLVLDL,IHFPLATYAPVISA EK,AFV HWYVGEEMEEGEFSEAR,NLDIERPT YTNLNR,AVFVDLEPTVIDEVR,QLFHP EQLITGK,VGINYQPPTVPPGGDLAK,TI GGGDDSFNTFFSETGAGK	DSFNTEFFSETGAGK,EDMAALEK,I GK,TIGGGDDSFNTFFSETGAGK,IH HFPLATYAPVISA EK,AFVHWYVVG FPLATYAPVISA EK,AVCMLSNTTAIA EGMEEGEFSEAR,RNLDIERPTYT EAWAR,NLDIERPTYTNLNR,AVFVD NLNR,AYHEQLSVAEITNACFEP LEPTVIDEVR,EDAANNYAR,LSVDY GK,QLFHPEQLITGK,LIGQIVSSITAS NQMVK,NLDIERPTYTNLNR,AVC GK,QLFHPEQLITGK,LIGQIVSSITAS MLSNTTAIAEAWAR,AVFVDLEPT LR,VGINYQPPTVPPGGDLAK,FDLM VIDEVR,EDAANNYAR,QLFHPEQ YAK LITGK,LSVDYGK,LIGQIVSSITASL R,VGINYQPPTVPPGGDLAK,FDL MYAK

					EIIDLVLDL,FDGALNVDLTEFQTN LVPYPR,DVNAAIATIK,LADQCTG LQGFLVFHSGGGTGSGFTSLLM
IPI00117348.4	P05213	Tuba1b	Tubulin alpha-1B chain	EIIDLVLDL,IHFPLATYAPVISA EK,AFV HWYVGEEMEEGEFSEAR,NLDIERPT YTNLNR,AVFVDLEPTVIDEVR,QLFHP EQLITGK,VGINYQPPTVPPGGDLAK,TI GGGDDSFNTFFSETGAGK	ER,GHYTIGK,LISQIVSSITASLR,TI GGGDDSFNTFFSETGAGK,IHFPL ATYAPVISA EK,AFVHWYVGEEM EEGEFSEAR,AYHEQLSVAEITNA CFEPANQMVK,NLDIERPTYTNLNR R,SIQFVDWCPTGFK,AVFVDLEP TVIDEVR,LSVDYGK,VGINYQPPT VPPGGDLAK

					YMACCLLYR,DVNAAIATIK,EIIDL VLDL,FDGALNVDLTEFQTNLVPY PR,LSVDYGKK,TIQFVDWCPTGF K,LADQCTGLQGFLVFHSGGGT GSGFTSLLMER,LISQIVSSITASL
IPI00403810.2	P68373	Tuba1c	Tubulin alpha-1C chain	EIIDLVLDL,IHFPLATYAPVISA EK,AFV HWYVGEEMEEGEFSEAR,NLDIERPT YTNLNR,AVFVDLEPTVIDEVR,QLFHP EQLITGK,VGINYQPPTVPPGGDLAK,TI GGGDDSFNTFFSETGAGK	R,GHYTIGK,TIGGGDDSFNTFFSE TGAGK,EDMAALEK,AYHEQLTVA EITNACFEPANQMVK,AFVHWYV GEGMEEGEFSEAR,IHFPLATYAP VISA EK,RNLDIERPTYTNLNR,AV CMLSNTTAIAEAWAR,NLDIERPT YTNLNR,AVFVDLEPTVIDEVR,ED AANNYAR,LSVDYGK,QLFHPEQL ITGK,VGINYQPPTVPPGGDLAK,F DLMYAK

IPI00117350.1	P68368	Tuba4a	Tubulin alpha-4A chain	AFVHWYVGEEMEEGEFSEAR,IHFPL ATYAPVISA EK,NLDIERPTYTNLNR,QL FHPEQLITGK,VGINYQPPTVVPGGDL AK	YMACCLLYR,FDGALNVDLTEFQT NLVPYPR,LSVDYGKK,LISQIVSSI TASLR,GHYTIGK,EDMAALEK,IHF FDGALNVDLTEFQTNLVPYPR,LISQ PLATYAPVISA EK,AFVHWYVGEEM IVSSITASLR,GHYTIGK,IHFPLATYA MEEGEFSEAR,RNLDIERPTYTNL PVISA EK,TIGGGDDSF TTF CETA NR,AYHEQLSVAEITNACFEPANQ GK,AVCMLSNTT AIAEAWAR,SIQFV MVK,SIQFVDWCPTGFK,NLDIER DWCPTGFK,NLDIERPTYTNLNR,ED PTYTNLNR,AVCMLSNTT AIAEAW AANNYAR,QLFHPEQLITGK,LSVDY AR,EDAANNYAR,LSVDYGK,QLF GK,VGINYQPPTVVPGGDLAK,FDL HPEQLITGK,VGINYQPPTVVPGG MYAK,AVFVDLEPTVIDEIR DLAK,FDLMYAK,AVFVDLEPTVID EIR
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IPI00109061.1	Q9CWF2	Tubb2b	Tubulin beta-2B chain	GHYTEGAELVDSVLDVVR,SGPFGQIF RPDNFVFGQSGAGNNWAK,GHYTEG AELVDSVLDVVRK	AILVDLEPGTMDSVR,PNNVKTAV CDIPPR,NSSYFVEWIPNNVK,ALT VPELTQQMFDSK,TAVCDIPPR,Y AILVDLEPGTMDSVR,NSSYFVEWIP LTVA AIFR,KLAVNMVPPFR,IREE NNVK,ALT VPELTQQMFDSK,TAVC YPDR,LHFFMPGFAPLTSR,MSAT DIPPR,IREEYPDR,LHFFMPGFAPL FIGNSTAIQELFK,INVYYNEATGN SR,INVYYNEATGNK,GHYTEGAELV K,ISEQFTAMFR,GHYTEGAELVD DSVLDVVR,EVDEQMLNVQNK,EIV SVLDVVR,EVDEQMLNVQNK,FP HIQAGQCGNQIGAK,FPGQLNADLR GQLNADLR,EIVHIQAGQCGNQIG ,NMMAACDPR,SGPFGQIFRPDNFV AK,NMMAACDPR,SGPFGQIFRP FGQSGAGNNWAK,LAVNMVPPFR,L DNFVFGQSGAGNNWAK,LAVNM TTPTYGDLNHLVSATMSGVTTC VPPFR,LTTPY GDLNHLVSATMS GVTTCCLR,FWEVISDEHGIDPTGS YHGSDLQLER
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IPI00169463.1	P68372	Tubb2c	Tubulin beta-2C chain	GHYTEGAELVDSVLDVVR,SGPFGQIF RPDNFVFGQSGAGNNWAK,GHYTEG AELVDSVLDVVRK	FWEVISDEHGIDPTGTYHGSDSL QLER,NSSYFVEWIPNNVK,TAVC DIPPR,ALT VPELTQQMFDAK,KLA VNMVPPFR,IREEYPDR,MSATFIG NSSYFVEWIPNNVK,TAVCDIPPR,A NSTAIQELFK,LHFFMPGFAPLTS LTVPELTQQMFDAK,IREEYPDR,LH R,ISEQFTAMFR,GHYTEGAELVD FFMPGFAPLTSR,GHYTEGAELVDS SVLDVVR,EVDEQMLNVQNK,INV VLDVVR,EVDEQMLNVQNK,INVYY YYNEATGGK,AVLVDLEPGTMDS NEATGGK,FPGQLNADLR,NMMAAC VR,FPGQLNADLR,NMMAACDPR, DPR,YLTVA A VFR,SGPFGQIFRPDN EAESCDCLQGFQLTHSLGGGTG FVFGQSGAGNNWAK,LAVNMVPP SGMGTLISK,YLTVA A VFR,SGPF R,LTTPY GDLNHLVSATMSGVTTC GQIFRPDNFVFGQSGAGNNWAK, LR,IMNTFSVVPSPK LAVNMVPPFR,LTTPY GDLNHLV SATMSGVTTCCLR,IMNTFSVVPSP K
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IPI00112251.1	Q9ERD7	Tubb3	Tubulin beta-3 chain	GHYTEGAELVDSVLDVVR,GHYTEGAELVDSVLDVVRK	AILVDLEPGTMDSVR,ISEQFTAMFR,NSSYFVEWIPNNVK,GHYTEGAELVDSVLDVVR,LATPTYGDLNHLVSATMSGVTTSLR,FPGQLNADLR,EIVHIQAGQCGNQIGAK,ALTVP ELTQQMFDAK,NMMAACDPR,LAVNMVPPFR,KLAVNMVPPFR,IMNTFSVPSPK	AILVDLEPGTMDSVR,GHYTEGAELVDSVLDVVR,NSSYFVEWIPNNVK,LATPTYGDLNHLVSATMSGVTTSLR,EIVHIQAGQCGNQIGAK,FPGQLNADLR,ALTVP ELTQQMFDAK,NMMAACDPR,LAVNMVPPFR,YLTVATVFR,IMNTFSVPSPK
IPI00109073.5	Q9D6F9	Tubb4	Tubulin beta-4 chain	SGPFGQIFRPDNFVFGQSGAGNNWAK	FWEVISDEHGIDPTGTYHGSDQLER,NSSYFVEWIPNNVK,MAATFIGNSTAIQELFK,TAVCDIPPR,ALTVP ELTQQMFDAK,KLAVNMVPPFR,LHFFMPGFAPLTSR,ISEQFTAMFR,AVLVDLEPGTMDSVR,FPGQLNADLR,YLTVAAVFR,NMMAACDPR,EAESCDCLQGFQLTHSLGGTGSGMGTLLISK,SGPFGQIFRPDNFVFGQSGAGNNWAK,LAVNMVPPFR,LTTPTYGDLNHLVSATMSGVTTCLR,IMNTFSVPSPK	
IPI00117352.1	P99024	Tubb5	Tubulin beta-5 chain	GHYTEGAELVDSVLDVVR,SGPFGQIFRPDNFVFGQSGAGNNWAK,GHYTEGAELVDSVLDVVRK	AILVDLEPGTMDSVR,PNNVKTAVCDIPPR,NSSYFVEWIPNNVK,MAVTFIGNSTAIQELFK,ALTVP ELTQQMFDAK,TAVCDIPPR,FWEVISDEHGIDPTGTYHGSDQLQDLDR,KLAVNMVPPFR,IREEYPDR,LHFFMPGFAPLTSR,ISEQFTAMFR,GHYTEGAELVDSVLDVVR,ISVYYNEATGK,EVDEQMLNVQNK,FPGQLNADLR,EIVHIQAGQCGNQIGAK,NMMAACDPR,YLTVAAVFR,EAESCDCLQGFQLTHSLGGTGSGMGTLLISK,SGPFGQIFRPDNFVFGQSGAGNNWAK,LAVNMVPPFR,LTTPTYGDLNHLVSATMSGVTTCLR,IMNTFSVPSPK	AILVDLEPGTMDSVR,NSSYFVEWIPNNVK,ALTVP ELTQQMFDAK,FWEVISDEHGIDPTGTYHGSDQLQDLDR,TAVCDIPPR,IREEYPDR,LHFFMPGFAPLTSR,GHYTEGAELVDSVLDVVR,ISVYYNEATGGK,EVDEQMLNVQNK,FPGQLNADLR,EIVHIQAGQCGNQIGAK,YLTVAAVFR,NMMAACDPR,SGPFGQIFRPDNFVFGQSGAGNNWAK,LAVNMVPPFR,LTTPTYGDLNHLVSATMSGVTTCLR,IMNTFSVPSPK
IPI00122928.1	Q922F4	Tubb6	Tubulin beta-6 chain	GHYTEGAELVDSVLDVVR,GHYTEGAELVDSVLDVVRK	NSSYFVEWIPNNVK,GHYTEGAELVDSVLDVVR,FPGQLNADLR,ALTVP ELTQQMFDAK,NMMAACDPR,LAVNMVPPFR,MASTFIGNSTAIQELFK,KLAVNMVPPFR,LTTPTYGDLNHLVSATMSGVTTSLR,IREEYPDR	NSSYFVEWIPNNVK,GHYTEGAELVDSVLDVVR,FPGQLNADLR,ALTVP ELTQQMFDAK,NMMAACDPR,LAVNMVPPFR,YLTVATVFR,LTTPTYGDLNHLVSATMSGVTTSLR,IREEYPDR,SGPFGQLFRPDNFIFGQTGAGNNWAK

IPI00342749.3	Q6PAM1	Txlna	Isoform 1 of Alpha-taxilin	EVTSHFQVTLNDIQLQMEQHNER,ATD APCCSGAPSTGTAGQTGPGEPTPATA ,EITLLMQTLNLTSTPEEK,VQDLTAGGI TDIGSER,LIEQYELREEHIDKVKF		
IPI00226993.5	P10639	Txn1	Thioredoxin	EAFQEALAAAGDK,EKLEASITEYA	EAFQEALAAAGDK,LVVVDFSAT WCGPCK,VGEFSGANK	EAFQEALAAAGDK,PFFHSLCDK,V GEFSGANK
IPI00133110.1	Q9CQU0	Txndc12	Thioredoxin domain-containing protein 12	DEDFSPDGGYIPR,ILFLDPSGK,VRPEI INESGNPSYK,YFYVSAEQVVQGMK,E AAASGLPLMVIHK,FAESTEISELSHNF VMVNLEDEEEPR		
IPI00471077.3	Q9CQM5	Txndc17	Thioredoxin domain-containing protein 17	HVTEDCVFIYCQVGDQPYWK,TIFAYF SGSK,SWCPDCVEAEPVIR		
IPI00163011.2	Q91W90	Txndc5	Thioredoxin domain-containing protein 5	ALAPTWEQLALGLEHSETVK,DLDSLH SFVLR,QGLYELSANNFELHVSQGNHF IK,GYPTLLWFR,GYPTLLLFR,SFEDTIA QGITVK		
IPI00654054.1	Q3UNH3	Txn1	Putative uncharacterized protein (Fragment)	IDQYQGADAVGLEEK,GYMDLMPFINK ,MVGVKPVGSDPDFQPELSGAGSR,IFI NLPR		AGCECLNESDEHGFDNCLR,IFINLP R
IPI00133298.2	Q3TBP4	Txn1a	Putative uncharacterized protein	AALHLYSNTLNFQVSEVEPK,MEEDPD DVPHGHITSLAVK,ENQGSTLPGSEEA SQQENLAGGDSGSDGK		
IPI00776252.1		Txnrd1	Isoform 1 of Thioredoxin reductase 1, cytoplasmic		VVGFHVLGPNAGEVTQGFAAALK ,FLIATGERPR,VLVLDFTPTPLG TR	VVGFHVLGPNAGEVTQGFAAALK,L ELTPVAIQAGR,WGLGGTCVNVGCI PK
IPI00130734.1	P07607	Tyms	Thymidylate synthase	DFLDSLGF SAR,GVLEELLWFIK		
IPI00113746.3	P26369	U2af2	Splicing factor U2AF 65 kDa subunit	NFAFLEFR,LFIGGLPNYLNDQVK,EL LTSFGPLK,SVDETTQAMAFDGIIFQGG SLK,LGGLTQAPGNPVLAVQINQDK,A MQAAGQIPATALLPTMTPDGLAVTPTP VPVVGSMTR	NFAFLEFR,LFIGGLPNYLNDQV K,IFVEFTSVFDCQK,LGGLTQAPG NPVLAVQINQDK	LFIGGLPNYLNDQVK,ELLTSFGPL K,SIEIPRPVDGVEVPGCGK,LGGLT QAPGNPVLAVQINQDK,YCDPDSYH R
IPI00462482.3	Q3TW96	Uap111	Isoform 1 of UDP-N-acetylhexosamine pyrophosphorylase-like protein 1	AALLAELASLEADALR,REFEPLLR		

IPI00123313.1	Q02053	Uba1	Ubiquitin-like modifier-activating enzyme 1		IIPAIATTTAAVVGLVCLELYK,KPL LESGTLGTK,AVTLHDQGTTQWA DLSSQFYLR,NEEDATELVGLAQA VNAR,LAGTQPLEVLEAVQR,VGE FCHSR,ALVLELCCNDESGEDVE VPYVR,NGFLNLALPFFGFSEPLA APR,LAYVAAGDLAPINAFIIGGLAA QEVMK,AENYDISPADR,AAVASL LQSVQVPEFTPK,IYDDDFQNLN GVANALDNIDAR,IHVSDQELQSA NASVDDSR,VVQGHQQLDSYK,N FPNAIEHTLQWAR,IHVSDQELQS ANASVDDSRLEELK,NIILGGVK,L KSDTAAAVR,YDGQVAVFGSDF QEK,GLGVEIAK,YFLVGAGAIGCE LLK,MLQTSSVLVSGLR,MYPIDFE KDDSNFHMDFIVAASNL,GGIV SQVK	KPLLESGTLGTK,IIPAIATTTAAVVG LVCLELYK,SLPASLVEPDFVMTDFN K,LAGTQPLEVLEAVQR,VGEFCHS R,NGFLNLALPFFGFSEPLAAPR,AA VASLLQSVQVPEFTPK,YSRPAQLHI GFQALHQFCALHNQPPRPR,PAQL HIGFQALHQFCALHNQPPRPR,VVQ GHQQLDSYK,MLQTSSVLVSGLR,G GIVSQVK,RVSGPDPK
IPI00130173.1	Q9Z1F9	Uba2	SUMO-activating enzyme subunit 2	GTILISSEEGETEANNPK,QFILVMNAL DNR,DDPPAMDFVTSANLR,DVEFEV VGDSPEK,FAMVAPDVQIEDGK,ADPE AAWEPTAEAR	GTILISSEEGETEANNPK,VLVVG GGIGCELLK,LQADDFLQDYTLIN ILHSEDLGK,VTVLTLQDK,ELAEA VSGGR,QFILVMNALDNR,SMAGN IIPAIATTTNAVIAGLIVLEGLK,NLVL TGFSHIDLIDLDTIDVSNLNR,KLE ENEAASTKK	KPPVPLDWAEVQSQGEANADQQN EPQLGLK,VLVVGAGGIGCELLK,LQ ADDFLQDYTLINILHSEDLGK,MCL AADVPLIESGTAGYLGQVTTIKK,SM AGNIIPAIATTTNAVIAGLIVLEGLK,MC LAADVPLIESGTAGYLGQVTTIK
IPI00457533.2	Q91VX2	Uba2	Ubiquitin-associated protein 2	AINILLEGNSDTSWETVGGK,VFTASS APAENHVTPGHSIDLVALLHK,LAQVIF DKNDSDFEAK,LLQLPNMTVENIVSAH QPQPK,NSVEEWTTEDWTEDLSETK,L PMDYYGIPFAAPTALASR,GVSVSSGT GLPDMTGSVYNK,DGNLANNPYSGDV TK,LAVWEAAQNGTDEGPEGLAK		
IPI00761172.1	Q80X50-2	Uba2	Isoform 2 of Ubiquitin-associated protein 2-like	IFTASNVSSVPLPAENVTITAGQR,AIN VLLEGNDPETHSWEMVGK,DGSLASNP YSGDLTK,NQDECVIALHDCNGDVNR,I DLAVLLGK,LDFIGVEGSNYPR,TATEE WGTEDWNEDLSETK,TPSSMENDSSN LDPSQAPSLAQPLVFSNSK,GGSTTGS QFLEQFK,FPLDYYSIPFPTPTTPTGR, LAQMISDHNDADFEK,NGFSSVQAT QLQTTQSVGATGSAVK,QHGVNVS NASATPFQPSGYGSHGYNTGR	IFTASNVSSVPLPAENVTITAGQR,Q RPQATAEQIR,FPLDYYSIPFPTPTT PLTGR	

IPI00889927.1	Q8BJ53	Ubp2l	Putative uncharacterized protein	IFTASNVSSVPLPAENVITAGQR,AID VLLEGNPDTHSWEMVGK,GGSTTGSQ FLEQFK,FPLDYYSIPFPTPTTPTLGR,D GSLASNPYSGDLTK,LAQMISDHNDAD FEEK,NGFSSVQATQLQTTQSVEGAT GSAVK,NQDECVIALHDCNGDVNR,IDL AVLLGK,TATEEWGTEDWNE DLSETK, QHGVNVSVNASATPFQQPSGYGSHG YNTGR,TPSSMENDSSNLDPSQAPSL AQPLVFSNSK	IFTASNVSSVPLPAENVITAGQR, IDLAVLLGK	IFTASNVSSVPLPAENVITAGQR,Q RPQATAEQIR,FPLDYYSIPFPTPTT PLTGR
IPI00133581.1	Q9D1C1	Ube2c	Ubiquitin-conjugating enzyme E2 C			ICLDILK,LSLEFSPGYPNAPTvk
IPI00322440.5	P61087	Ube2k	Ubiquitin-conjugating enzyme E2 K		LWAHVYAGAPVSSPEYTK,NAVIV ALSSK,YQLEIK,IPETYFNPFPK,T VLLSLQALLAAEPDDPQDAVVA NQYK,VDLVDENFTELR	
IPI00453803.5	Q6ZPJ3	Ube2o	Ubiquitin-conjugating enzyme E2 O		VVVEEVQVVELK,LRPSGDDVELI GEEEDVSVYDIADHPDFR,GEVFS VLEFAPSNHSFK	
IPI00113257.3	Q9CZY3	Ube2v1	Isoform 1 of Ubiquitin-conjugating enzyme E2 variant 1	WTGMIIGPPR,LLEELEEGQK,VNMSG VSSNGVVDPR,GVGDGTVSWGLED DEDMTLTR	VILQELR,LLEELEEGQK,YPEAPP SVR	
IPI00311591.3	Q3UE37	Ube2z	Ubiquitin-conjugating enzyme E2 Z			EPPPGMFVVPDVTDMTK,LMTTGN NTVR
IPI00131915.2	Q78JW9	Ubfd1	Ubiquitin domain-containing protein UBF1	LPTVPLSGMYNK,IMVVGSTINDVLAVN TPK,GNLQPAPAQPPGDPAQASVSN GEDAGGGVGK,LEQDQLWIGTK		
IPI00387416.1	Q9QZM0	UbqIn2	Ubiquilin-2	EANLQALIATGGDINAAIER,LIFAGK,N QDLALSNLESIPGGYNALR		
IPI00648087.1	Q6WKZ8-2	Ubr2	Isoform 2 of E3 ubiquitin-protein ligase UBR2			ALSWLGSVIGYSDGLR,FPELLPLSE LSPMLIEHPLR,CLAVLTQCHGGFT DGEQPITLSICGHSVETIR,QFVTCIL CQEEQEVTVGSR
IPI00648709.2	A2AN08-5	Ubr4	Isoform 5 of E3 ubiquitin-protein ligase UBR4		ALATNPALR,GHQFGVLSVILAN HAIK,SVFIAQNVASLQELGGSEK, NLLPATLQLIDTYASFTR,AAQFVD LLGYFSLK,VLIEFLLR,ITVLQLSA LLK,ACAEIAAQR,LLEEQGIFLR,A VSNINTLLDK,STLEVLQLFPINIK,L IDSVPLTNLLL TLLSTSYR,AQQAL SELHTVDK,CSASVPANPGVCGN CGENVYQCHK,TVQAIVELK,DLH TLDShVR,YDVEIVEEYFAR,TLLP LLESSTESAAEISSNSLER	KCLPIR,ACAEIAAQR

IPI00882371.1		Ubr5	309 kDa protein			LPNLDCIQNANK,LSAVEAIANAISVV SSNGPGNR,GSGLLGSQPQPVIPAS VIPEELISQAQVVLQGGK
IPI00225151.1	Q8BU04	Ubr7	Putative E3 ubiquitin-protein ligase UBR7	EDIQQFFEEFQSK,REDIQQFFEEFQSK,DAATYWPLNWR		
IPI00123589.1	Q922Y1	Ubxn1	UBX domain-containing protein 1	RAFSEADMERPLQELGLVPSAVLIVAK,SSPPATDGPVPSPPSQEPPTK,AFSEADMERPLQELGLVPSAVLIVAK,EPTPSEQVGPEGSGSAAGESRPILTEEER,LPDGTSLTQTFR,GEEPGQDQDPVQLSGFPR,LYVELHRGEEPGQDQDPVQLLSGFPR		LPDGTSLTQTFR,GEEPGQDQDPV QLLSGFPR
IPI00653686.1	Q3TCH2	Uch1	Putative uncharacterized protein (Fragment)		NEAIQAAHDSVAQEGQCR,VNFH FILFNNVDGHL YELDGR,FADVLG LEEETLGSVPSPACALLLFLPLTA QHENFR	NEAIQAAHDSVAQEGQCR,MFPFV NHGASSEDSSLQDAAK
IPI00311369.1	Q9JKB1	Uch3	Ubiquitin carboxyl-terminal hydrolase isozyme L3	FLENYDAIR,WLPLEANPEVTNQFLK,Q LGLHPNWQFVDVYGMPELLSMVPR	PVCAVLLFPITEK,VTHETSAHEG QTEAPSIDEK	KPFPINHGK,QTISNACGTIGLIHAIA NNKDK,QTISNACGTIGLIHAIANNK, WLPLEANPEVTNQFLK
IPI00129471.3	A2AN37	Uck1	uridine-cytidine kinase 1			YADVIIIPR,DLEQILTQYAFVKPAFE EFCLPTKK
IPI00121203.1	Q99PM9	Uck2	Uridine-cytidine kinase 2			KEETVTIYPADVVLFEGLAFYSQEV R,YADVIIIPR,GADNLVAINLIVQHIQD ILNGGLSK
IPI00880407.1		Ufm1	Protein			VPAATSAITNDGIGINPAQTAGNVF LK,VLSVPESTPFTAVLK
IPI00762897.2	Q6P5E4	Uggt1	UDP-glucose:glycoprotein glucosyltransferase 1		VWQLQDLSFQTAAR,IIGPLEDNE LFNQDDFHLLNIILK,FLFVDADQI VR,ILFLDVLFPPLVVDK,LAPLLLV LQLINMNL	
IPI00417180.3		Ugt1a10	UDP glycosyltransferase 1 family, polypeptide A10			PVMPNMVFGGMNCLQGKPLSK,K AMEIAEALGR,MVPAAFPTSLPLCV CLLLASGLVQAGR,TDFVLEFPRPV MPNMVFGGMNCLQGK
IPI00130200.6	Q8VDF2	Uhrf1	E3 ubiquitin-protein ligase UHRF1		LWDDVLTSLQDGPYQIFLSK,VNQ PLQTILNQLFPGYGSGR	
IPI00121552.2	P13439	Umps	Uridine 5'-monophosphate synthase		NAGISFDSVCGVPYALPLATVIC SANHIPMLIR,GLQEVGLPLHR,VT DAIVLLDR	NAGISFDSVCGVPYALPLATVICSA NHIPMLIR,IASWADIVNAHVVPVGS GVVK,SGLSSPVYIDLR,GLQEVGLPL HR,LHAVCTLSQMLEILQQQEK
IPI00420949.3	Q9EPU0	Upf1	Isoform 1 of Regulator of nonsense transcripts 1	FTAQGLPDLNHSQVYAVK,SQIDVALS QDSTYQGER,ALVEGPLNNLR	LLGHEVEDVVIK,IPSEQEQLR,NV FLLGFIPAK	RIAFFTLPK,TVLQRPLSLIQGPPGT GK,LMQGDEICLR,ALVEGPLNNLR,I PSEQEQLR,GNTSGSHIVNHLVR

IPI00323353.3	P52624	Upp1	Uridine phosphorylase 1	AGPVLSVSHGMGIPSIGIMLHELK,LQ GDQINTPHDVLVEYQQR	LVGHFIK,LQGDQINTPHDVLVEY QQRPQR,AGPVLSVSHGMGIPSI GIMLHELK,YVAAELGLDHPGK,E DVLYHFNLSTSTHDFPAMFGDVK ,FVCVGGSSSR,LDGALCSYTEK,I GTSGGIGLEPGSVVITQQAVNEC FKPEFEQIVLGK,AAVVCVTLDR	LVGHFIK,LQGDQINTPHDVLVEYQQ RPQR,AGPVLSVSHGMGIPSIGIMLH ELIK,YVAAELGLDHPGK,IGTSGGIG LEPGSVITQQAVNECFKPEFEQIV LGK,FVCVGGSSSR
IPI00653598.2	Q3TV75	Uqcrc1	ubiquinol-cytochrome c reductase core protein 1 precursor		VVELLADIVQNSSLEDSQIEK,LCT SATESEVTR,MVLAAGGVEHQQ LLDLAQK	
IPI00119138.1	Q9DB77	Uqcrc2	Cytochrome b-c1 complex subunit 2, mitochondrial		LPNGLVIASLENYAPLSR,AVAFQ NSQTR,AVAQGNLSSADVQAAK, MALVGLGVSHSVLK,YEDSNLNG TSHLLR	TSAAPGGVPLQPQDLEFTK,SMAAS GNLGHTPFLDEL
IPI00133240.1	Q9CR68	Uqcrfs1	Cytochrome b-c1 complex subunit Rieske, mitochondrial		GVAGALRPLLQGAVPAASEPPVL DVK,SGPFAPVLSATSR,VPDFSD YR,EIDQEAHAVEVSQRL,PLVATV GLNVPASVR,ESLSGQAAAR	GVAGALRPLLQGAVPAASEPPVLD VK,PLVATVGLNVPASVR,ESLSGQA AAR
IPI00668766.3		Urb1	hypothetical protein LOC207932		AESDLFLDMESVASLELATDK,SV GPALLQSLGLLK,ISMECAEIFQL LSGEK,DVILLHKK,TIEELLAILK, GLGALLPTLAEHELDTVFLQTLQK	
IPI00128071.7	Q9Z1Z0	Uso1	Isoform 1 of General vesicular transport factor p115		SVPVEGESEHVSAAK,VLVSPTN PPGATSSCQK	
IPI00420601.5	P52479	Usp10	Ubiquitin carboxyl-terminal hydrolase 10	LPPVLVLHLK,DIRPGAAFEPTYIYR,EG LVPVSEDPVAIK,NIDYPVDLEISR,TVQ DALESLVAR,TAGTQPYVGTDTTENFA VANGK,QADFVQTPITGIFGGHIR	LPPVLVLHLK,VINQYQVVKPPAD R,EGLVPVSEDPVAIK,TVQDALES LVAR,IAELLETVTLIHKPVSLQPR	TVQDALESLVAR,TAGTQPYVGTDT TENFAVANGK,PGAAFEPTYIYR
IPI00154012.1	Q8R5H1	Usp15	Isoform 1 of Ubiquitin carboxyl-terminal hydrolase 15			IGNILDCTALSALSGVPADK,MSTE TEETDGHLR,YMSNTFEPLNKPDSIT QDAGLYQQQVLVIEQK
IPI00420483.4	Q3UJD6	Usp19	Isoform 1 of Ubiquitin carboxyl-terminal hydrolase 19			VSITFDPFLYLPVPLPQK,RAVHLRR
IPI00668474.3	Q6ZQ93-1	Usp34	Isoform 1 of Ubiquitin carboxyl-terminal hydrolase 34		DIFNLLFLLPSLK,FVAAGGLQQLL EIFNSAILEPK	
IPI00457815.3	Q3TIX9	Usp39	U4/U6.U5 tri-snRNP-associated protein 2			REAEPAAAR,ANDYANAVLQALS NVP PLR,EVPAPALPVVR,EQLIIPQVPLF NILAK
IPI00884486.2	Q8BTL9	Usp4	ubiquitin specific protease 4	GEIAEAYAELIK,NDSVIVDTFHGLFK		VSVTFDPFCYLTLPPLK,TELGALM GTTLQR,VSVTFDPFCYLTLPPLK

IPI00463367.2	Q6A4J8-2	Usp7	Isoform 2 of Ubiquitin carboxyl-terminal hydrolase 7	EVFGTFGIPFLLR,VFYELQHS DK PVGTK,LLEIVSYK,VLLDNVENK,A GFIQDTSLILYEEVKPNLTER	LSEVLQAVTDHDIPQQLVER,QEAH LYMQVQIVAEDQFCGHQGNMYD EEK,FEFPEQLPLDEFLQK
IPI00798468.1	A2AD18	Usp9x	Ubiquitin carboxyl-terminal hydrolase	LIGQLNLK,YISFLWQVADLGSSLN MPPLR,GWLVDLLNK,LYSVVSQLI R,EIYTNLGPR,YFLPIIEMVPQFLE NLTDEELKK,LLQISSFNGK,LAQQ ISDEASR,LQVNQVVIHEDFIQSCF DR,LAWDFSPEQLDHLFDCFK,EQ HDALEFFNSLVDSLDEALK,TGET GVEETILEGHLGVTK,VPGQEETV K,FWFAHNVLFNVS NR,YSHVQEV QER,IELFVGGELIDPGDDRK,HLQ VIFGHLAASR,DSLHQPQYVEK,LL LTAIGYGHVR,VVIQSNDDIACR,V LGGSFADQK,GSASDWYDALCILL R,ILTDEAVSGWK,LVELCVAK,GE LEVLEAAIDLSK,RTGETGVEETI LEGHLGVTK,LVGVLVHSGQASG GHYYSYIIQR,FIEELR,LWGEPVN LR	WVVPVLPK,MNALNEVNK,VPGQEE TVK,YSHVQEVQER,FLFTTGFTK, LAQQISDEASR,SGGLPLVLSMLTR
IPI00454162.3	Q6J1H4	Utf1	Isoform 1 of Undifferentiated embryonic cell transcription factor 1	SSLSALAPAPAPVEQEAEPLAA ENDEPAPALR,APVSPDSAQR,AS SPQVAPQSLNTALLQTLTHLGDIS TVLGPLR,DQLSTLNQHVEHLR,E TELLLGTLQAMWR,GSFDQTV SLAVGFILGSAASER,RVSAALAR	APVSPDSAQR,SSLSALAPAPAPVE QEAEPLAAENDEPAPALR,RTPAQ CR
IPI00462762.2	Q640M1	Utp14a	Isoform 1 of U3 small nucleolar RNA-associated protein 14 homolog A	TIQNPIGSTWNTQR,EPSSFAPMEHVF R,TLEEELEELGKEDSLPNK,KEQMISLQ NLLTTR,LLEAIGSLSGK,EQMISLQNLL TTR,DSTSQEVLSER,VDPDAALEELE K,LALS DLLGPLKPSSSLA AVK,TLEELE ELGK,TPSVTSLALPTTVEELEDEGAR, EAEQLVFPLEK,TPLEQEVFNLLHK,KV DPDAALEELEK	
IPI00226889.1	Q8C7V3	Utp15	U3 small nucleolar RNA-associated protein 15 homolog	NSDSPVPEHVPAELPEEK,FIVLQELVE K	
IPI00353579.1	Q5SSI6	Utp18	U3 small nucleolar RNA-associated protein 18 homolog	VLYVYDMLAGK,TGNFISTSTSLPR	LVHLPSCTVFSNFPVFK,AIMNLVTG VTSLAFNPTEILAVASR,QFEVSPD GSFLLISGIAGFSHLLSMK,AGATPG RK

IPI00850851.1	Utp20		down-regulated in metastasis		LGPVTETETQLPWILVGETLK,FL DESLGEQVVK,NSLAYQPLLDLVV QLAR,TLLDVVSALLLAENVSLPET LIK,FLGAVAVDLGVDR,RMASMAI K,LLETYLIVVK,LAALNVTEK,VLYL LELESGNK,FLAGTQPEEIQFLDL LSEPVK,TIQTIQGAITGDILPR,HE NITIAATEVIGAICR,IIEDLGVHFLQ YVLK,NLSQEIIELLK	SSVVIYK,EALGAPEAAASEGTVAK .LQVGDLDLSCHEIMTEIFNHELFGAL AEEK,LGNVNIDIIHR,ELQTTLVV,VK PYLPLIAPLFR,LLFGFLTLMR
IPI00119776.1	Q9J113	Utp3	Isoform 1 of Something about silencing protein 10			VPAHGHPVIER,YNLYLNYCANISFY LILK,RVPAHGHPVIER
IPI00461832.2	Q8VCY6	Utp6	U3 small nucleolar RNA-associated protein 6 homolog	IPELEQLER,ELEIESQPGEEQPVSK,P FSVEFFR,AIIAVTGASSVTLKEK,AAMD MGDFDHPEEILK		
IPI00125267.4	Q9WV55	Vapa	Vesicle-associated membrane protein-associated protein A			PHSVSLNDTETR,GPFTDVVTTNLK, VAHSDKPGSTSAVSFR,KVAHSDK
IPI00130353.5	Q9Z1Q9	Vars	Valyl-tRNA synthetase		LPALQGGPGLWVWGAPAVAQL LWPAGLGGPGGSR,SLGNVIDPL DVIHGVSLQGLYDQLLNSNLDPS EVEK,LLSPFMPFVTEELFQR,LSA TVTEAFVR,AVLGEVALYSGAR,L HTYLAGDAPTLADLAAVTALLLPF R,VPLEVQEAEAK,ALNPLEDWL R,ITPAHDQNDYEVGQR,GPGQD PQAALGALGK,GFVPSATSKPEG HESLVDR,SVTQQPGSEVIAPQK	LPALQGGPGLWVWGAPAVAQLL WPAGLGGPGGSR,SLGNVIDPLDVI HGVSLQGLYDQLLNSNLDPEVEK, LHTYLAGDAPTLADLAAVTALLPFR ,LHEEGVIYR,GPGQDPQAALGALG K,GALINVPPPFGLPR
IPI00624876.3	P70460	Vasp	Vasodilator-stimulated phosphoprotein			LPAQSEPVR,QEEASGGPLAPK
IPI00121851.2	P61759	Vbp1	Prefoldin subunit 3	NLDSLEEDLDFLR,LHLGIPEAVFVEDV DSFMK		
IPI00405227.3	Q64727	Vcl	Vinculin			AIPDLTAPVAAVQAAVSNLVR,QILD EAGK,VDQLTAQLADLAAR,GNDIIA AAK

IPI00622235.5	Q01853	Vcp	Transitional endoplasmic reticulum ATPase	<p>YEMFAQTLQQSR,WALSQSNPSALR, QTNPSAMEVEEDDPVPEIR,LDQLIYIP LPDEK,IVSQLLTLMGDLK,NAPAIIFIDE LDAIAPK,EVDIGIPDATGR,EAVCIVLS DDTCSDEK,DVDLEFLAK,VLFFDELDS IAK,GDDLSTAILK,VINQILTEMDGMST K,KYEMFAQTLQQSR,MTNGFSGADLT EICQRACK,MDELQLFR,ELQELVQYPV EHPDK,LIVDEAINEDNSVVSLSQPK</p>	<p>ETVVEVPQVTWEDIGGLEDVKR,L ADDVDLEQVANETHGHVGADLA WALSQSNPSALR,LADDVDLEQVAN ETHGHVGADLAALCSEAALQAIR,L ALCSEAALQAIR,LDQLIYIPLPDEK DQLIYIPLPDEK,VVETDPSPYCIVAP ,AIANECQANFISIK,NAPAIIFIDEL DTVIHCEGEPIK,IVSQLLTLMGDLK, DAIAPK,EVDIGIPDATGR,EAVCIV NAPAIIFIDELDAIAPK,SVSDNDR,E LSDDTCSDEK,LAGESESNLRK,D VDIGIPDATGR,QAAPCVLFFDELDS VDLEFLAK,RSVSDNDRK,GDDL IAK,GGNIGDGGGAADR,VLFFDEL IAK,GDDLSTAILK,VINQILTEMDG TAILK,AHVIVMAATNRPNSIDPAL SIAK,GDDLSTAILK,VINQILTEMDG R,NVFIIGATNRPDIIDPAILRPGR,I MSTK,ETVVEVPQVTWEDIGGLEDV HVLPIDDTVEGITGNLFEVYLKPY K,GVLFYGGPPGCGK,LGDVISIQPCP FLEAYRPIR,LGDVISIQPCPDVK,L DVK,GILLYGPPGTGK,ELQELVQYP IVDEAINEDNSVVSLSQPK,LAGE VEHPDK,LIVDEAINEDNSVVSLSQP SESNLR,ELQELVQYPVEHPDK K,LAGESESNLR</p>
IPI00122549.1	Q60932	Vdac1	Isoform PI-VDAC1 of Voltage-dependent anion-selective channel protein 1	<p>KLETAVNLAWTAGNSNTR,GALV LGYEGWLAGYQMNFETSK,VNNS VNNSSLIGLGYTQTLKPGIK,SENGL SLIGLGYTQTLKPGIK,TDEFQLHT EFTSSGSANTETTK,WNTDNTLGTE NVNDGTEFGGSIYQK,LGLGLEFQ ITVEDQLAR,YQVDPDACFSAK,LTF A,YQVDPDACFSAK,LTFDSSFSP DSSFSPNTGK,GYGFGLIK,VTQSNF NTGK,EHINLGCDDVDFDIAGPSIR, AVGYK GYGFGLIK,VTQSNFAVGK</p>	
IPI00122547.1	Q60930	Vdac2	Voltage-dependent anion-selective channel protein 2	<p>SNFAVGYR,GFGFGLVK,LTFDFTT VSGTLETK,GFGFGLVK,LTFDFTFS FSPNTGK,LTLSALVDGK,TGDFQ PNTGK,SCSGVEFSTSGSSNTDTGK LHTNVNNGTEFGGSIYQK,YQLDP ,LTLALVDGK,MAECCVPVCP RPM TASISAK,VNSSLIGVGYTQTLRP CIPPPYADLGK,YQLDPTASISAK,VN GVK NSSLIGVGYTQTLRPGVK</p>	
IPI00122548.3	Q5EBQ0	Vdac3	Voltage-dependent anion channel 3	<p>AADFQLHTHVNDGTEFGGSIYQK LTLALIDGK,VNNASLIGLGYTQTLR ,LTLALIDGK,VNNASLIGLGYTQT PGVK,LTLDTIFVPNTGK LRPVGVK,LTLDTIFVPNTGK</p>	
IPI00227299.6	P20152	Vim	Vimentin	<p>FADLSEAANR,EEAESTLQSFR,VELQE LNDR,FANYIDK,LLQDSVDFSLADAIN TEFK,DGQVINETSQHDDLE,MALDIEI ATYR,VEVERDNLAEDIMR,VESLQEEI AFLK,EMEENFALEAANYQDTIGR,LHD ILLAELEQLK,KVESLQEEIAFLK,K EEIQELQAQIQEQHVQIDVDVSKPDLT VESLQEEIAFLK,MALDIEIATYR AALR,LQDEIQNMKEEMAR,ILLAELEQ ILLAELEQLK,ISLPLPTFSSLNLR,LL LK,ISLPLPTFSSLNLR,NLQEAEEWYK, EGEEER,KVESLQEEIAFLK,TYSL KVESLQEEIAFLK,SLYSSSPGGAYVTR GSALRPSTSR ,ETNLESPLVDTHSK</p>	
IPI00551411.5	Q8BX70	Vps13c	Isoform 1 of Vacuolar protein sorting-associated protein 13C	<p>ISGEIIEVLVVK,IQGLDSSLQSK</p>	

IPI00111181.1	Q9EQH3	Vps35	Vacuolar protein sorting-associated protein 35		ACAELHQN NVK, NIIIALIDR, IPVD TYNNILTVLK, LLDEAIQAVK, ILVG TNLVR, LNLEHIATSSAVSK, LSQ IPVDTYNNILTVLK, GVQHPLR EGVNVER, FTLPPLVFAAYQLAFR , VLETTVEIFNK	
IPI00153207.3	Q8R0J7	Vps37b	Vacuolar protein sorting-associated protein 37B	QSNNASLETLLALLQAEGAK, FLDGEL PLDSFIDVYQSK		
IPI00133700.2	P46467	Vps4b	Vacuolar protein sorting-associated protein 4B	LLEPVVSMWDMRL, LQNQLQGAI PNVK, GILLFGPPGTGK		
IPI00132936.1	Q80X41	Vrk1	Isoform 1 of Serine/threonine-protein kinase VRK1	NPDQVYLV DYGLAYR, RFMIMDRFGS DLQK, LDFSAVENG SVK, ILDILEYIHEH EYVHGDIK, LLEYTEKPLYQNL R, LAEQ FAAGEVLTDM SR, EAEESAVCAVEDM ECSDTQVQEA AQTR		
IPI00221817.5	Q99KC8	Vwa5a	von Willebrand factor A domain-containing protein 5A		TSAQVSLTEGHK, ELNKPVQGPLA HR	
IPI00113738.2	P32921	Wars	Isoform 1 of Tryptophanyl-tRNA synthetase, cytoplasmic	DMNQILDAYENK, TLIDVLQPLIAEHQA R	ISFPAVQAAPSFNSFPK, HVTFNQV K, PALLHSTFFPALQGAQTK	
IPI00314748.7	O88342	Wdr1	WD repeat-containing protein 1		VFASLPQVER, VYSILASTLK, V ESK, SIQCLTVHR, FGAVFLWDTGSS VGEITGHNK	
IPI00121562.1	Q9JJA4	Wdr12	Ribosome biogenesis protein WDR12		HVEFDLIK, KDSLSCLLLTASMDQT VLLWEWNVEK, WSPTHEQQLISGSL DNIVK, YAVDDVPFSIPAAA EVADLS NIINK	
IPI00623264.2		Wdr17	WD repeat domain 17		GGVCLDTVYDHGADVGLTCHPSR PFTMASC SR, KLMQRR	
IPI00136252.3	Q4VBE8	Wdr18	WD repeat-containing protein 18		LQLGLHLQ GK, GPVTNAAIILAPPSM LNPEFRPSLPLPHFNK	
IPI00226275.2	Q8C6G8	Wdr26	WD repeat-containing protein 26	LALLNVATQGVHLWDLQDR, YLEYLED GKVLEALQVLR		
IPI00876121.1	Q3TAQ9	Wdr36	WD repeat domain 36 isoform 1		LINQMR, SLGHGLV NK, VLIHSLGLD SSPNMMLLHR	
IPI00849919.1		Wdr43	WD repeat domain 43 isoform 5		LGSTEATIEER, LILLVTQVTASEK, DQADLLALGTAVGSILLYSTVR, LL NVWQVR, LWVLETK	KMTSPGQK, VVILLQELTK, LLNVW QVR, HFTGHATPVSSLR, VLVP GIPG HHAPIK
IPI00129141.1	Q9Z0H1	Wdr46	WD repeat-containing protein 46	ILQTDIVEAVDIASAAK, AELL LVGEDGEDTAK, GLLVAGMGDVVNIW AGQ GK, DIHFLHSEALLAVAQNR, AVAV DSTGTYMATSGLDHQLK, TL FPGVPAPLEEAR	ILQTDIVEAVDIASAAK, ALAEVDV VTLEQQK	
IPI00139957.1	P61965	Wdr5	WD repeat-containing protein 5	TLIDDDNPPVSFVK, TLP HFNR		
IPI00117632.2	Q3TEZ2	Wdr6	Putative uncharacterized protein		QAWVVTGGDDSGIR, YMSLAICELD NDRPGLGPGPLVAAACSDGAVR, L HIVNCGGGHR, ELTIVAGAVSNELLI WYPATALTDNK	

IPI00112320.4	Q9ERF3	Wdr61	WD repeat-containing protein 61		ENIETVVTGSLDDLVK,YLASGAIDGI INIFDIATGK
IPI00122120.1	Q8VCG3	Wdr74	WD repeat-containing protein 74	VWDLQGSEEPVFR,YFNAEEGTFLSQ R,VPIWDQDTQFLPGSQK	
IPI00114819.3	Q99J09	Wdr77	Methylosome protein 50		NASCTLSSAVHSQGVTR,AHAGQV TCVAASPHK
IPI00132977.1	Q9D0R9	Wdr89	WD repeat-containing protein 89	VDEDALLVFDAR,DPLGAYSETHSD DITQVR	
IPI00229685.2	Q8CHP5	Wibg	Isoform 1 of Partner of Y14 and mago	PELPPGLSPEATTPVTPSRPEGGETG LSK,EGYVPQEEVPVYENK,RVLEEEL EDLELGL,SKPELPPGLSPEATTPVTPS RPEGGETGLSK,IQAGEVSQPSR,VLE EELEDLELGL,VSLGDTAQIPSALQGP QATPLAASDPSSAATTEK	
IPI00120744.1	Q9DCD2	Xab2	Pre-mRNA-splicing factor SYF1	LEQQSVPAAVFGSLKED,LEQQSVPA VFGSLK,RPLLLNSVLLR,LSPEAAEYI EYLK,VSGSATGTVSDLAPGQSGMDD MK,VQSLNVDIIR	
IPI00170021.1	Q8K2X7	Xpa	Xpa protein	QTSPEPVAADEPAQLPAAVR,ALEVW GSQEALEDAK	
IPI00420231.4	Q3UE92	Xpnpep1	X-prolyl aminopeptidase (Aminopeptidase P) 1, soluble, isoform CRA_b		DAVALCELFNWLEQEVPK,GSLTF EPLTLVPIQTK,IENVLVVPAK MIDVNALTDK,VGVDPLIPTDYWK,G SLTFEPLTLVPIQTK,SAGHHLVPVK
IPI00395038.3	Q6P5F9	Xpo1	Exportin-1		SNDPQMVAENFVPLLDVAVLIDY QR,LISTLIYK,AIIASNIMYIVGQYP R,EPEVLSTMAIIVNK,YVVGLIIL,L FVTGLFSLNQDIPAFK,MAQEVLT HLK,YMLLPNQVWDSIIQQATK,FL VTVIK,LNMILVQILK,YYGLQILENV IK,FLNWIPLGYIFETK,LVLDSIIWA FK,LDINLLDNVNCLYHGEGAQQ R,DFLVQIK,LLSEEVDFSSGQIT QVK,AVGHPPFVIQLGR YYGLQILENVIK,LISGWVSR,ESPFS TSASPLLSGSQHFIPPR,LDINLLD NVVNCLYHGEGAQQR,YMLLPNQV WDSIIQQATK,MAQEVLTHLK,FLVT VIK,AVGHPPFVIQLGR
IPI00321154.4	P27641	Xrcc5	ATP-dependent DNA helicase 2 subunit 2		DDEAAVALSSLVHALDELNMVAI VR,SGISLQFFLPFPIDK
IPI00132424.4	P23475	Xrcc6	ATP-dependent DNA helicase 2 subunit 1	NIYVLQDLNDNPGAK,ADEFK,KQELLD LIR,DLLAVVFGTEK,ELVYPPGYNPE GK,SDSFENPVLQQHFR,DTGIFLDM HLK,DSLIFLVDSR,KPGGFDVSVFYR, TFNVNTGSLLLPSDTK	IISDRDLLAVVFGTEK,DSLIFLV DASR
IPI00120046.1	Q9DBR1	Xrn2	Isoform 1 of 5'-3' exoribonuclease 2	NLTVILSDASAPGEGEHK,AALEEVYP DLTPEENR,LLYMAIDGVAPR,AALEEV YDILTPEENRR	
IPI00108989.4	Q91WL1	Yap1	Yes-associated protein 1, isoform CRA_d	LDKESFTWL,KLPDSFFKPPEPK,SQL PTLEQDGGTPNAVSSPGMSQELR,YF LNHNDQTTTWQDPR	

IPI00314153.4	A2A7S7	Yars	Tyrosyl-tRNA synthetase	LKKAFCEPGNVENNGVLSFIK,AGCEV TILFADLHAYLDNMK,QVEHPLLSGLLY PGLQALDEEYLK	TVVSGLVQFVPK,HVLFPLK,QVEHP LLSGLLYPGLQALDEEYLK,LHLITR, KLASAAYPDPSK
IPI00896734.1	B2RUF0	Ybx2	Y box protein 2	EDVFNHQTAK,SVGDGETVEFDVVEG EK,NDTKEDVFVHQTAK	
IPI00621973.3		Ylpm1	YLP motif containing 1	AIGFVVGQTDWEK,MPLPAPALGHQP PPVPR	
IPI00752810.1	A2AWN8	Ythdf1	YTH domain family 1, isoform CRA_a	NAAFQQSGGANSDSNSVGNAPTSA PSVESHVLEK,HTTSIFDDFSHYEK,S GPIVGGALPPPIK	
IPI00314865.9	Q3UNH5	Ythdf2	Putative uncharacterized protein	APGMNTIDQGMAALK,HTTSIFDDFSH YEK	
IPI00227149.4	Q8BYK6-3	Ythdf3	Isoform 3 of YTH domain family protein 3	GPLYLLFSVNGSGHFCGVAEMK,VPGI SSIEQGMTGLK,GNVIGGSAVPPPI K	
IPI00230682.6	Q9CQV8	Ywhab	Isoform Long of 14-3-3 protein beta/alpha	DSTLIMQLLR	TAFDEAIAELDTLNEESYKDSTLI MQLLR,NLLSVAYK,DSTLIMQLLR ,AVTEQGHLSNEER,KEMQPTH PIR,IEAELQDICNDVLELLDK,EKIE AELQDICNDVLELLDK,VISSIEQK, YLILNATQAESK,LAEQAEK,YLSE VASGENK,TAFDEAIAELDTLNEE SYK
IPI00118384.1	P62259	Ywhae	14-3-3 protein epsilon	DSTLIMQLLR	HLIPAANTGESK,AAFDDAIAELDT LSEESYKDSTLIMQLLR,EAAENS LVAYK,AAFDDAIAELDTLSEESYK ,DSTLIMQLLR,VAGMDVELTVEE R,IISSIEQK,LAEQAEK,EALQDVE DENQ,LICCDILDVLDK,YLAEFAT GNDR,NLLSVAYK,KEAAENSLVA YKAASDIAMTELPPTHPIR,AASDI AMTELPPTHPIR
IPI00230707.6	P61982	Ywhag	14-3-3 protein gamma	DSTLIMQLLR,NVTELNEPLSNEER	EHMQPTHPIR,YLAEVATGEK,NLL SVAYK,DSTLIMQLLR,NVTELNEP LSNEER,TAFDDAIAELDTLNEDS YK,ELEAVCQDVLSDLDNYLIK,AY SEAHEISK,VISSIEQK,TAFDDAIA ELDTLNEDSYKDSTLIMQLLR,LAE QAER,LGLALNYSVFYIEIQNAPE QACHLAK
IPI00227392.5	P68510	Ywhah	14-3-3 protein eta	DSTLIMQLLR	EHMQPTHPIR,VLALLDK,NLLSVA YK,DSTLIMQLLR,AVTELNEPLSN EDR,YLAEVASGEK,VISSIEQK,EL ETVCNDVLALLDK,NSVVEASEAA YK,LAEQAEK

IPI00853924.1		Ywhaq	34 kDa protein	QTIENSQGAYQEA FDISK,DSTLIMQLL R	YLIANATNPESK,YLAEVACGDDR, YLIANATNPESK,QTIENSQGAYQEA AVTEQGAELSNEER,TAFDEAIAE FDISK,YLAEVACGDDR,NLLSVAYK, LDTLNEDSYK,NLLSVAYK,TAFDE TAFDEAIAELDTLNEDSYK,AVTEQG AIAELDTLNEDSYKDSTLIMQLLR, AELSNEER,SICTTVLELLDK,DSTLI DSTLIMQLLR,SICTTVLELLDK,KE MQLLR,SICTTVLELLDKYLIANATNP MQPTHPIR,VISSIEQK,KQTIENSQ ESK,VISSIEQK,EMQPTHPIR,LAEQ GAYQEA FDISK,LAEQAER AER
IPI00116498.1	P63101	Ywhaz	14-3-3 protein zeta/delta	DSTLIMQLLR	SVTEQGAELSNEER,FLIPNASQP SVTEQGAELSNEER,FLIPNASQPE ESK,NLLSVAYK,EKIE TELR,YLAE SK,NLLSVAYK,DSTLIMQLLR,YLAE VAAGDDKK,DSTLIMQLLR,KEMQ VAAGDDK,TAFDEAIAELDTLSEESY PTHPIR,TAFDEAIAELDTLSEESY K,EMQPTHPIR,GIVDQSQQAYQEA K,GIVDQSQQAYQEA FEISK,DICN EISK,DICNDVLSLLEK,LAEQAER,V DVLSLLEK,TAFDEAIAELDTLSEE SYKDSTLIMQLLR,LAEQAER VSSIEQK
IPI00421162.4	Q6NZF1	Zc3h11a	Zinc finger CCCH domain-containing protein 11A	QEGSSGVSSVLQQPQPNPGPEK,G EVETSGIGDSILNVK,LSSASTGKPPLS VEDDFEK,AAVAVVPLLSEDK,TLEEILL ER,DSSVLSSAQAASEPLLPEGSGPSS SQTATKPR	
IPI00515528.2		Zc3h13	RIKEN cDNA 3110050K21	EELADISTDKDGVLEDPLKK,DLGSVQ GFEDVSK	
IPI00461416.4	Q8BJ05	Zc3h14	Isoform 1 of Zinc finger CCCH domain-containing protein 14	LQELGAYVDEELPDYIMVMVANKK,QL EDPDGFSFNAEMTDLSVAQKPEK,TS QEELLAEMVQGQNR	
IPI00223503.1	Q8BPK2	Zcchc3	zinc finger, CCHC domain containing 3	AVHNSVTAQLTSVAGH,SIGMDPDDIY AVIQIPGSR,PGTTEDATERPLQDEPP AAGPGK	
IPI00458460.1	O88466	Zfp106	Isoform 1 of Zinc finger protein 106	APVYSFFTGEGETGK,SDTLEKPLFNFS LITAGLR	
IPI00387481.3		Zfp185	zinc finger protein 185 isoform a	SSISGTEEEVPFTPDEQK,TTSSPTQ ELQSPFLAK,RVDVDEDLVPEK,PMG DLLDQIFIHR,CGICNKPMGDLLDQIFIH R	
IPI00125510.1	Q9JMD0	Zfp207	zinc finger protein 207 isoform 1		PATLTTTSATSK,NLPRPGQTPIGNP PVGPIGGMPPQGPLPQQQAMR,I LIHQK
IPI00469594.3	Q6IQX8	Zfp219	zinc finger protein 219	SYGGFRPLPSALPNR,APSGETPPSPP LEEEGSPGLSR,LLLELEER,EANPAPT PAPPEPPAPPEFR,PLAATSTPEPPP PPQQEPR,GGEAEPLDLSLR,SLGSLT SLHPNPGEGSGQPAPAAGTQAR,FNS ILALHLR,STATQEENGLLVGGTR,ILVG HLEPSPPAFDGLDLQR,REPPSLLGY LSVR,PTQASATWVEGTASTRPPSSST GPGSR	AGPGGEAGAGGALHR,SSAGPGPP PEPPPPSQR

IPI00124803.1	Q62384	Zfp259	Zinc finger protein ZPR1	TFDQNEELGLNDMK,GALTTVEGLISR, FTTLEGLLK,IPELDIFEIPAFSQK	
IPI00116926.4	Q99LI5	Zfp281	zinc finger protein 281	TTYQIENFAQAFGSQFK,SGIPDEVLQS ILDQYSGK,SYLNFVSPLPDVVGQK,VD LHTSGEHSSELVQEENLSPGTQTPSND K,TSWGFLQSLVSIK,PFQCSQCSMGFI QKYLLQR	
IPI00282808.7	B0V2M3	Zfp318	zinc finger protein 318 isoform 1	VAQILGIDIFDK,AEGLEQQTDFLLPHE R	
IPI00411014.1	Q6NXK2	Zfp532	Isoform 1 of Zinc finger protein 532	TVHLANLNLLPQGAQATSELR,QVTIKP VATAFLPVSAVK,PVATAFLPVSAVK,Q NAHVDDDSHTPSSSDVGVSVIVK,EAE SNSITLSVYEPFK,KPSEQAASVMASV TSLSSASATVLSSPPR	
IPI00112984.4	Q6P9P9	Zfp655	Zinc finger protein 655	EQDLQVFDLESK,EVIRGDCSDGETRE ENK,SFSLDSTLDTDQR	
IPI00320645.1	Q8R1N0	Zfp830	Zinc finger protein 830	ETTSNVLNPNDFNTNPPK,SELLWQTH VLGK,LGQLSCALCNTPVK,ASAGPQV QPSTSASSANLDAAR	
IPI00377729.3	Q80U44	Zfyve16	Zinc finger FYVE domain-containing protein 16		DQDISILSSSYQFAK,EQCLSNSNTM SAGENVNDSQLQMNQITMK,LLCSV AK,LPCCELLK
IPI00119998.6	Q9DAZ9	Zfyve19	Zinc finger FYVE domain-containing protein 19	VTLQDYHLPDSDEDEETAQR,LLAEA AVELQEENTR,LAALKDEVQGPISTQ EMEDR	
IPI00755765.1	Q1WG82	Zglp1	GATA-like protein 1		GTQCPNLEISSATSPASLQRR,QELL APPCLDTESLR,RQELLAPPCLDTE SLRK
IPI00132099.1	Q9CPW7	Zmat2	Zinc finger matrin-type protein 2	DGKPVQPVKR,RAEEDLTFEEDDEMA AVMGFSGFGSTK	
IPI00354840.5	Q8CIE2	Zmiz2	Isoform 1 of Zinc finger MIZ domain-containing protein 2		NTIQITVTACCCSHLFLVLQVHRPSV R,PSTDFTQAAAAAAMAAAAATATA TATATVAALQEK
IPI00896685.1	B2RW16	Znhit6	MCG7779, isoform CRA_c	LQFPQSQAIEYIEK,TINEILKPYIDPEES DPVIR,QEADSSLVKEEEVDEPEVK	
IPI00756815.2		Zscan10	zinc finger and SCAN domains 10	DKDHLSSDPGSLSSSQESNPYVCS CGK,LAPSSNWPMSPPEQILQDPR,D ISHMGPLDFFSAGK,DGEEVVQLLEG VPR	
IPI00228360.3	Q62523	Zyx	Zyxin	VCSIDLEIDSLSLDDMTK,VNPFPRG DSEPPVAAGAQR	
IPI00889986.1	P49312	Hnrnpa1	Heterogeneous nuclear ribonucleoprotein A1	EDSQRPGAHLTVK,GFGFVTYATVEEV DAAMNAR,RGFAFVTFDDHDSVDK,IE VIEIMTDR,GFAFVTFDDHDSVDK,LFIG GLSFETTDQSLR,EDTEEHHLR	

IPI00886422.1	P84228	Hist1h	Histone H3.2	YRPGTVALR,FQSAAGALQASEA YLVGLFEDTNLCAIHAKR,EIAQDF K,RVTIMPK,STELLIR,KLPFQR
IPI00889281.1	B0LM42	Rbm14	Transcriptional coactivator CoAZ	RMHVQLSTSR,ATGPVLTVGEGYGYG HDSELSQASAAAR
IPI00876172.1	P62751	Rpl23a	60S ribosomal protein L23a	LDHYAIKFPLTTESAMK,NKLDHYAIK FPLTTESAMK,KIEDNNTLVFIVDVK,IE DNNTLVFIVDVK,LALDYDALDVANK,L DHYAIK,VNTLIRPDGEK,FPLTTESAM K

Figure s1. 1DE gel images of the fractions from the subcellular enrichment. Each gel was cut into 5 pieces and digested and analyzed via MS separately. Data from all 5 slices were merged into a single database search per gel.

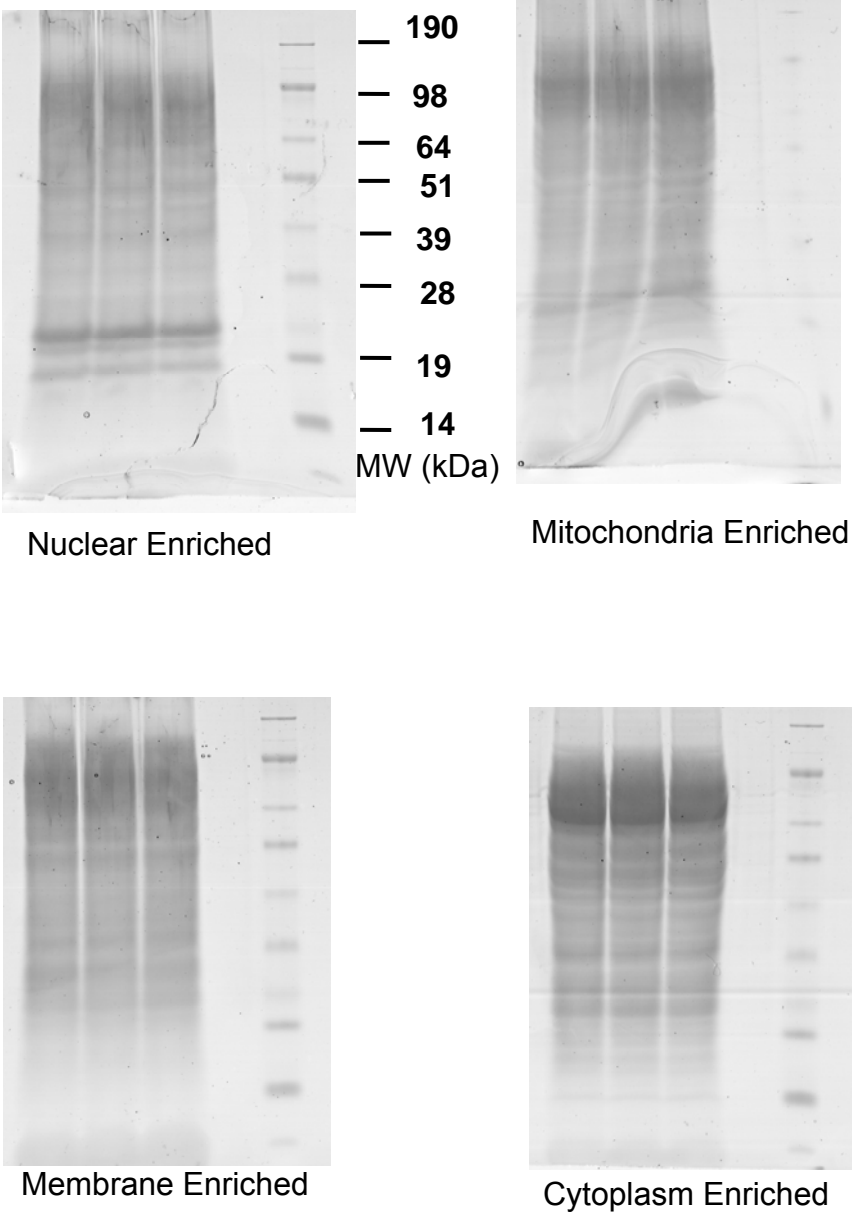
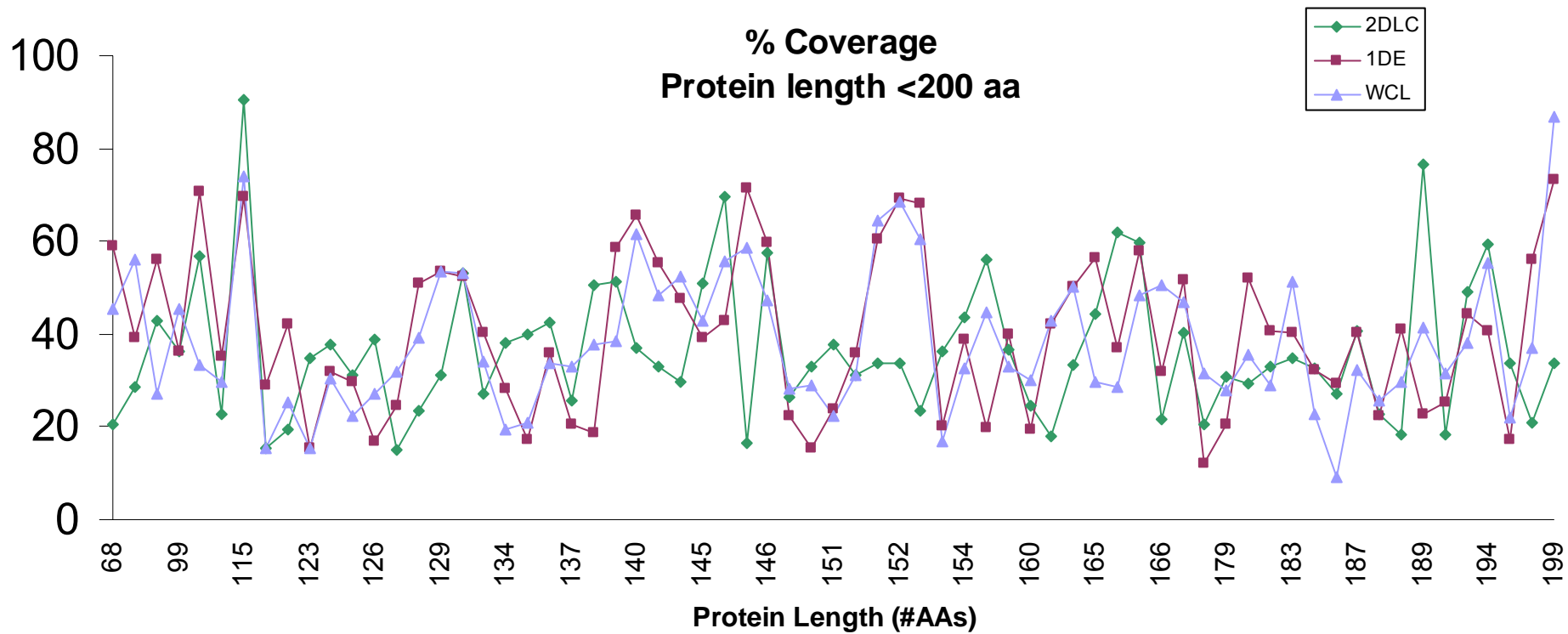
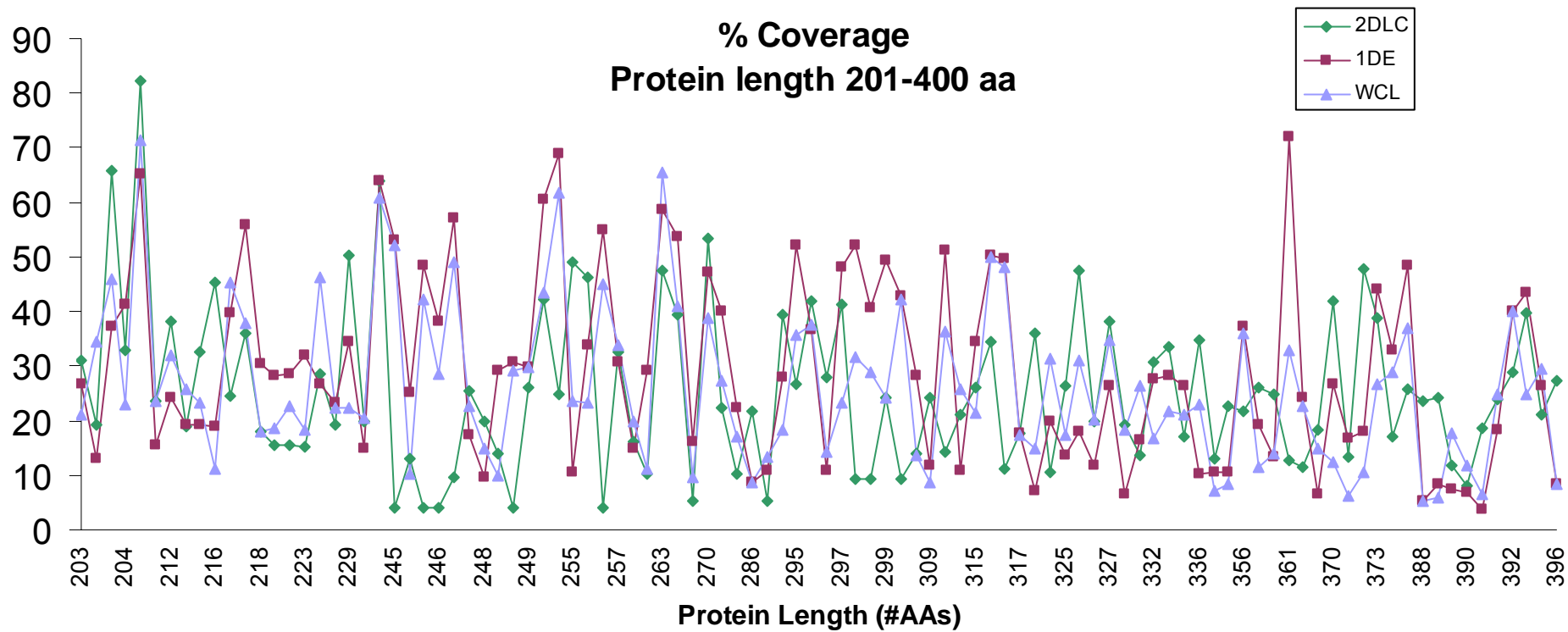
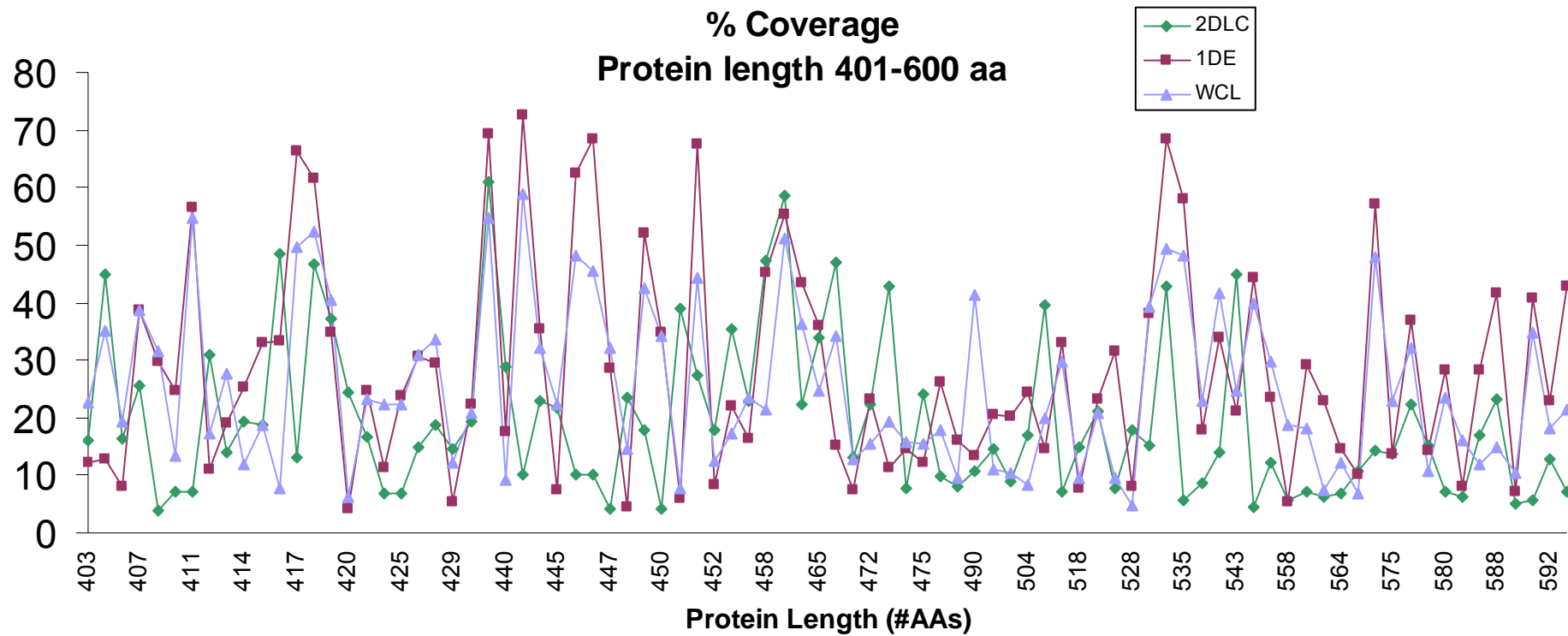


Figure s2

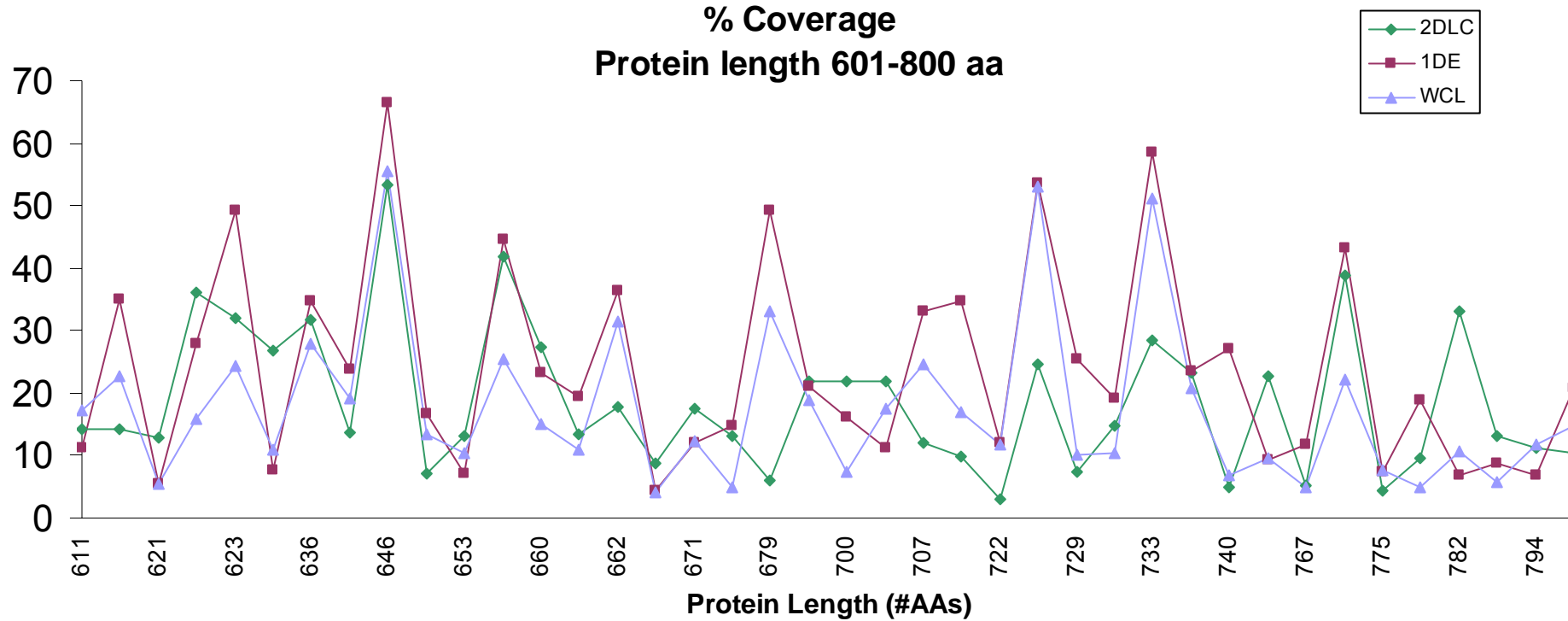
Sequence coverage observed vs. protein length among the three proteomic approaches







% Coverage
Protein length 601-800 aa



% Coverage Protein length >801 aa

