Supplemental Documents

Supplemental Materials and Methods

Characterization of aggregated SNCA

Lyophilized SNCA (purchased from R-Peptide) was dissolved in PBS at pH 7.4 prior to centrifugation at 85,000 rpm with a Beckman ultracentrifuge to remove any aggregated material. The protein solution (1 mg/ml; 70 μM) was stirred at 37 °C with a mini-Teflon stir bar for 6 hrs. The aggregates prepared with this protocol (Liu et al., 2007) were identical to those generated by aging SNCA for 7 days *in vitro* without constant stirring (Zhang et al., 2005). The characteristics of aggregated SNCA include a size of 44-158 kDa and morphological structures of 3-5 nm diameters when determined by size exclusion chromatography and transmission electron microscopy (TEM), respectively. Additionally, these aggregates are congophilic that are demonstrable readily with thioflavin T fluorescence assays. More details on the methods of generating and charactering SNCA aggregates can be found in the two papers published from our lab previously (see Supplemental References below).

Sucrose density gradient

After treating with eSNCA and the pulse-chase experiment, MES cells were collected in 500 μ l of sucrose buffer [8% (w/v) sucrose in 20 mM Hepes, pH 7.3, and 1 mM EDTA], followed by a centrifugation at $1000\times g$ for 10 min. Next, 360 μ l of the post-nuclear supernatant was loaded on the top of a tube containing 360 μ l aliquots of 40, 37, 34, 31, 28, 25, 22, 19, 16, 13, and 10% (w/v) sucrose in 20 mM Hepes, pH 7.3, 1 mM EDTA, sequentially overlaid. After centrifugation at 55,000 rpm in a SW60Ti rotor, 250 μ l were collected from the bottom of the tube, and resolved by SDS-PAGE.

Neurite outgrowth assay

MES cells were seeded onto a poly-D-lysine coated 4-well Lab-Tek II chambered coverglass (Nagle Nunc) at 0.01x10⁶/well. After 24 hrs incubation, cells were treated and fixed in 4% formaldehyde, followed by staining with a rabbit anti-MAP2 antibody

(1:1000) and a goat anti-rabbit IgG Alexa Fluor 568 secondary antibody (Invitrogen). Images of five randomly selected fields were then captured using a laser scanning confocal microscope. The length of neurites on MAP2+ cells and number of branching points were quantified using Neurolucida software (version 8.0, MicroBrightField, Williston, VT, USA) by an observer blind to the experimental settings.

SILAC MES proteome labeling

SILAC - stable isotope labeling for amino acids in culture - was carried with MES cells cultured using arginine and lysine depleted media. For cultures exposed to vehicle and eSNCA treatment, $^{12}C_6^{14}N_4$ L-arginine, $^{12}C_6^{14}N_2$ lysine (light) and $^{13}C_6^{15}N_4$ L-arginine, $^{13}C_6^{15}N_2$ lysine (heavy) were added, respectively. Cells were incubated at 37° C for at least five generations (Liu et al., 2007).

Protein analysis by µLC-MS/MS

The purified, labeled peptides were separated by a two dimensional microcapillary high performance liquid chromatography system, which integrates a strong cation-exchange (SCX) column (100 mm in length × 0.32 mm inner diameter; particle size: 5 μ m) with two alternating reverse phase (RP) μ C18 columns (100 mm in length × 0.18 mm inner diameter), followed by analysis of each peptide with tandem mass spectrometry (MS/MS) using an LCQ DECA XP PLUS ion trap (ThermoElectron, San Jose, CA, USA). Briefly, six fractions were eluted from SCX using a binary gradient of 2–90% solvent D (1.0 M ammonium chloride and 0.1% formic acid in 5% acetonitrile) versus solvent C (0.1% formic acid in 5% acetonitrile). Each fraction was injected into a RP μ C18 column automatically with the peptides being resolved using a 120 min binary gradient of 5–80% solvent B (0.1% formic acid in acetonitrile) versus solvent A (0.1% formic acid in water). A flow rate of 160 μ I/min with a split ratio of 1/80 was used. Peptides were eluted directly into the electrospray ionization (ESI) ion trap MS capable of data-dependent acquisition.

The intensities of eluting peptide pairs (light versus heavy) were measured in the scanning mass spectrometer. Nonetheless, the entire peak area of each eluting peptide was reconstructed and used in the ratio calculation. To determine the amino acid sequence, the mass spectrometer operated in a data-dependent MS/MS mode (a full-scan mass spectrum followed by a tandem mass spectrum), where the precursor ion was selected "on the fly" from the previous scan. An m/z ratio for an ion that had been selected for fragmentation was placed in a list and dynamically excluded for 3 min from further fragmentation. Proteins from the mixture were later identified automatically using the computer program Seguest, which searched tandem mass spectra against the International Protein Index (IPI) database (ipi.ratmouse.fasta, V3.24). Search parameters for Sequest used in this study were the following: tryptic; +10Da for ¹³C ¹⁵N isotopic-labeled arginine, +8Da for ¹³C ¹⁵N isotopic-labeled lysine and +16Da for oxidized methionine as differential options; +57 Da for carbamidomethyl cysteine as static option; mass tolerance ± 3Da. Potential peptides and proteins were further analyzed with two software programs, PeptideProphet[™] and ProteinProphet[™] to enhance confidence of protein identification based on statistical models. PeptideProphet™ uses various Sequest™ scores and a number of other parameters to calculate a probability score for each identified peptide. The peptides are then assigned a protein identification using ProteinProphet™. ProteinProphet™ allows filtering of large-scale data sets with assessment of predictable sensitivity and false-positive identification error rates. In our study, only proteins with a high probability of accuracy (p=1, determined by ProteinProphet[™]) were selected.

Relative protein abundance in experimental groups compared to controls was calculated using an algorithm termed the Automated Statistical Analysis of Protein abundance (ASAP) ratio. The algorithm utilized for calculation of ASAP Ratios of signals recorded for the different isotopic forms of peptides of identical sequence are based on numerical and statistical methods, such as Savitzky-Golay smoothing filters, statistics for weighted samples, and Dixon's test for outliers, to evaluate protein

abundance ratios and their associated errors. Information about these software tools and the software tools themselves can be found on line at www.systemsbiology.org/Default.aspx?pagename_proteomicssoftware and downloaded freely (Liu et al., 2007).

Gene Ontology

All protein identifications were derived from the International Protein Index (IPI) database (version 3.24). The identified proteins were classified by cellular components and biological functions using Gene Ontology (GO) analysis as previously described (Shi et al., 2008).

Supplemental Results

Endosome-lysosome system plays a role in the traffic of eSNCA

Most internalized macromolecules are degraded by lysosomes via trafficking through a series of vesicular compartments. Usually the internalized products initially fuse with early endosomes, which in turn reach late endosomes either by budding off transport vesicles or by directly maturing to late endosomes and then into lysosomes for degradation. As a result, we investigated whether internalized eSNCA also followed this pathway, by analyzing the distribution of internalized eSNCA in the endosome-lysosome system of MES cells after sucrose gradient ultracentrifugation. The results, shown in Fig S1, demonstrated that internalized eSNCA was readily detectable at 0 hr of chase (after 3 hrs exposure), reached a plateau 3 hrs after chase, but started to decrease by 6 hrs after chasing (Fig S1A). Fig S1B indicated that the internalized eSNCA largely stayed in early endosomes (marker EEA1) at 0 hr of chase, but moved to the late endosomes (marker Lamp-1) by 3 and 6 hrs. The distribution of internalized eSNCA, as determined by sucrose gradient ultracentrifugation, was also confirmed by immunochemistry. More specifically, early endosomes and late endosomes were visualized with confocal microscopy at different time points after eSNCA treatment. As can be seen in Fig S1C, the merged images reveal that a majority of internalized eSNCA was co-localized with EEA1 and Lamp-1, 0, 3 or 6 hrs after chase, respectively.

Proteomic identification of proteins interacting with rab11a

245 proteins were identified after the results from three independent runs were combined [all identification with p=1, as determined by ProteinProphet (see detailed methods) and unique peptides >=2]. The function of total identified proteins associated with rab11a was cataloged for their cellular location and molecular function based on GO analysis. Cellular location of these proteins included cytoplasm, lysosome/proteasome, endoplasmic reticulum (ER/Golgi), mitochondrion, and nucleus. With respect to molecular function, these proteins included transport, signal

transduction, protein modification, cell cycle, and metabolism. A graphic presentation of protein groups and a detailed list of proteins can be found in **Fig S4**, and **Appendix I**, respectively. Among identified proteins, 6 and 12 proteins in three separate experiments increased and decreased, respectively, between MES cells treated with and without eSNCA. It should be noted that proteins with changes in relative abundance are less likely to be contaminants or non-specific binding proteins during affinity purification. Additionally, these proteins are likely regulators of the processes involved in eSNCA endocytosis and/or subsequent effects of internalized eSNCA. Proteins that were altered in relative abundance after treatment with eSNCA and are potentially important to PD pathogenesis based on current knowledge are listed in **Supplemental Table 1**.

Figure S1. A) The amount of internalized SNCA at different chase periods. MES cells were pulsed with human eSNCA for 3 hrs and washed extensively. Next, fresh medium was added and cells were chased for different time points. Western blotting measurements elucidated the extent of internalization of eSNCA with β-actin as an internal control. Results were obtained from at least three independent experiments. B) Sucrose gradient fractionation procedure was developed to isolate the earlyendosome/late-endosome systems. Cells were homogenized and adjusted to 10-40% discontinuous sucrose gradient centrifugation. Detection of EEA1 and Lamp-1, early endosome marker and late endosome marker respectively, was achieved by western blotting for each fraction. EEA1 was detected in fractions 4, 5, 6, 7, 8, 9, and 10. Lamp-1 was notable in fraction 2, 3, 4 and 5. C) MES cells were treated with prefluorescent labeled eSNCA at 250nM, chased for different times before being incubated with early endosome marker (EEA1), late-endosome marker (Lamp-1), respectively. The results were followed by fluorescent labeled secondary antibodies and examined with a confocal microscope. It was apparent that internalized eSNCA was co-localized both in early endosomes at chase 0 hr but largely moved to lateendosomes by 3-6 hrs chase (shown in merge column as yellow color).

Figure S2. Cells were pulsed with human eSNCA for 3 hrs and washed extensively with PBS. Fresh FBS-free medium was added, and cells were chased at different time points at 37°C and 18°C. At the end of the experiment, the media was collected, and eSNCA was detectable 3-6 hrs after the chase at 37°C. The eSNCA in the two time points of low temperature cannot be detected.

Figure S3. The amount of internalized eSNCA after silencing rab11a.

MES cells were pulsed with human pre-aggregated eSNCA for 3 hrs, and washed extensively with PBS after knocking down rab11a expression. The cells were collected and the uptake of eSNCA was measured. Western blotting measurements demonstrated that the internalization of eSNCA was not affected by rab11a siRNA in the MES cells (as compared to controls [CTL] and non-sense [NS] siRNA transfections), with β -actin as an internal control. Results were obtained from at least three independent experiments.

Figure S4. GO analysis and annotation of total proteins identified by 2 or more peptides (proteins identified with high confidence). **(A)** Proteins are classified according to their cellular components. **(B)** Proteins are classified based on their participation in specific biological functions.

Supplemental Table 1: Proteins Potentially Associated with PD Process

IPI No.	Common Name/ Function	GO Annotation Cellular Component	Ratio
IPI00210945.7	Tropomyosin alpha-1 chain/ Binds to actin filaments	Cytoplasm	0.06±0.01
IPI00230507.5	ATP synthase subunit d mitochondrial/ Produces ATP from ADP in the presence of a proton gradient across the membrane generated by electron transport complexes of the respiratory chain	Mitochondrion	0.57±0.04
IPI00467338.4	Ran GTPase-activating protein 1/ GTPase activator for the nuclear Ras-related regulatory protein	Cytoplasm	0.57±0.14
IPI00128491.1	Adenine phosphoribosyltransferase/	Cytoplasm	0.66±0.14
IPI00133903.1	Catalyzes a salvage reaction Hspa9 stress-70 protein mitochondrial precursor/ Controls cell proliferation and cellular aging, also acts as a chaperone.	Mitochondrion	1.53±0.21
IPI00210566.3	Heat shock protein 90-alpha/ Molecular chaperone and has ATPase activity	Cytoplasm	1.65±0.26
IPI00317794.5	Nucleolin/ Plays a role in pre- rRNA transcription and ribosome assembly	Nucleus	2.75±0.38
IPI00227392.5	14-3-3 protein eta/ Adapter protein implicated in the regulation of a large spectrum of both general and specialized signaling pathway.	Cytoplasm	2.30±0.31
IPI00120984.5	NADH dehydrogenase 1 alpha subcomplex subunit 8/ The immediate electron acceptor for the enzyme is believed to be ubiquinone	Mitochondrion	3.79±0.36
IPI00129516.1	Cytochrome b-c1 complex subunit 6 mitochondrial precursor/ Mediates formation of the complex between cytochromes c and c1	Mitochondrion	6.13±0.41

Protein identifications are based on the IPI Rat-Mouse protein database (version 3.24). Protein functions are from the UniProtKB/Swiss-Prot database. Ratio: Relative protein

abundance in control groups compared to experimental groups (control/ $^{12}C_6^{14}N_4$ L-arginine, $^{12}C_6^{14}N_2$ lysine-labeled vs SNCA treatment/ $^{13}C_6^{15}N_4$ L-arginine, $^{13}C_6^{15}N_2$ lysine-labeled), calculated by an algorithm termed ASAP ratio. PD, Parkinson disease; IPI, International protein index; GO, Gene Ontology.

Supplemental Appendix I: Proteins/Protein Groups associated with rab11a

Pri0021945.7 Turpomyosin I alpha isoforme 6	Name(IPI)	Common Name	# of peptides
PID00132963.1 33 kDa protein 3 7 7 7 7 7 7 7 7 7			6
IPI00132963.1 Zinc finger protein 706 3 3 1PI00230507.5 A 1PI00230507.5 A 1PI00203507.5 A 1PI001032981 A 1PO01047174.3 A A A A A A A A A			
PIP00230507.5 AP synthase subunit of miochondrial DP00407133.1 DP00407133.1 AC DP00407134.3 Ran GTPase activating protein	IPI00830884.1	33 kDa protein	
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PID00471774.3 Ran GTPase activating protein	IPI00623553.1		
PIP00171240.1	IPI00467338.4	Ran GTPase-activating protein 1	4
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PIP00230830.5 Enkaryotic translation initiation factor 2 subunit 1 T			
PIPO0474446.4 Eukaryotic translation initiation factor 2 subunit 1			
PIP00116279.3 Ccts T-complex protein 1 subunit epsilon 15			7
PIP00277299.6 Vimentin Vime			1.5
PI000230941.5 Vimentin			
PI00130353.5 Valyl-tRNA synthetase			6
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IP100197568.2 Rab GDP dissociation inhibitor beta Isoform 2 of Rab GDP dissociation inhibitor beta Isoform 2 of Rab GDP dissociation inhibitor beta 47 kDa protein 5 IP100363565.3 68 kDa protein 5 Lysyl-tRNA synthetase IP100560366.2 Lysyl-tRNA synthetase Lysyl-tRNA synthetase IP1006020145.1 LOC631033 similar to lysyl-tRNA synthetase isoform 1 IP100205912.3 Non-POU domain-containing octamer-binding protein 4 IP100320016.7 ISoform 1 of Non-POU domain-containing octamer-binding protein IP100230440.6 ENSMUSG00000048538;Ahcy Adenosylhomocysteinase 5 IP100476295.7 Ahcy Adenosylhomocysteinase 5 IP100373045.1 Eukaryotic translation initiation factor 4B IP100353563.4 Fascin IP100763106.1 LOC683788 similar to fascin (singed-like protein) isoform 1 IP100767873.1 LOC683788 similar to fascin (singed-like protein) isoform 2 IP100120045.1 EG628438;Hspe1-rs1 CPN10-like protein I1 IP100263863.8 I0 kDa heat shock protein mitochondrial IP100129526.1 Hsp90b1 Endoplasmin precursor 4
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IP100416577.1 Isoform 2 of Rab GDP dissociation inhibitor beta 47 kDa protein 47 kDa protein 5 1 1 1 1 1 1 1 1 1
IPI00363565.3
IPI00363565.3 68 kDa protein 5 1 1 1 1 1 1 1 1 1
IPI00363565.3 68 kDa protein 5 1 1 1 1 1 1 1 1 1
IPI00469103.1 Lysyl-tRNA synthetase LOC631033 similar to lysyl-tRNA synthetase isoform 1 IPI00205912.3 Non-POU domain-containing octamer-binding protein 4 Isoform 1 of Non-POU domain-containing octamer-binding protein PI00230440.6 ENSMUSG00000048538;Ahcy Adenosylhomocysteinase 5 IPI00476295.7 Ahcy Adenosylhomocysteinase S IPI0021581.1 Eukaryotic translation initiation factor 4B 8 IPI00373045.1 Eukaryotic translation initiation factor 4B IPI00353563.4 Fascin 10 IPI00763106.1 LOC683788 similar to fascin (singed-like protein) isoform 1 IPI00767873.1 LOC683788 similar to fascin (singed-like protein) isoform 2 IPI00120045.1 EG628438;Hspe1-rs1 CPN10-like protein 11 IPI00263863.8 10 kDa heat shock protein mitochondrial IPI00129526.1 Hsp90b1 Endoplasmin precursor 4
IPI00560366.2 Lysyl-tRNA synthetase Lysyl-tRNA synthetase Lysyl-tRNA synthetase Lysyl-tRNA synthetase LOC631033 similar to lysyl-tRNA synthetase isoform 1 IPI00205912.3 Non-POU domain-containing octamer-binding protein IPI00320016.7 Isoform 1 of Non-POU domain-containing octamer-binding protein ENSMUSG00000048538;Ahcy Adenosylhomocysteinase 5 IPI00476295.7 Ahcy Adenosylhomocysteinase 5 IPI00221581.1 Eukaryotic translation initiation factor 4B 8 IPI00373045.1 Eukaryotic translation initiation factor 4B IPI00353563.4 Fascin 10 IPI00763106.1 LOC683788 similar to fascin (singed-like protein) isoform 1 IPI00767873.1 LOC683788 similar to fascin (singed-like protein) isoform 2 IPI00120045.1 EG628438;Hspe1-rs1 CPN10-like protein 11 IPI00263863.8 10 kDa heat shock protein mitochondrial IPI00129526.1 Hsp90b1 Endoplasmin precursor 4
IP100205912.3 Non-POU domain-containing octamer-binding protein 4 ISOform 1 IP100230440.6 IP100230440.6 IP100275.7 Ahcy Adenosylhomocysteinase IP100373045.1 Eukaryotic translation initiation factor 4B IP100373045.1 IP100373045.1 Eukaryotic translation initiation factor 4B IP100373045.1 IP10076373.1 LOC683788 similar to fascin (singed-like protein) isoform 1 IP10076373.1 IP
IP100205912.3 Non-POU domain-containing octamer-binding protein 4 IP100320016.7 ISoform 1 of Non-POU domain-containing octamer-binding protein IP100230440.6 ISoform 1 of Non-POU domain-containing octamer-binding protein IP100476295.7 Ahcy Adenosylhomocysteinase 5 IP100476295.7 Ahcy Adenosylhomocysteinase 8 IP100373045.1 Eukaryotic translation initiation factor 4B IP100373045.1 Eukaryotic translation initiation factor 4B IP100763106.1 ID0683788 similar to fascin (singed-like protein) isoform 1 IP100768773.1 LOC683788 similar to fascin (singed-like protein) isoform 2 IP100120045.1 EG628438;Hspe1-rs1 CPN10-like protein 11 IP100263863.8 I0 kDa heat shock protein mitochondrial IP100129526.1 Hsp90b1 Endoplasmin precursor 4
IP100205912.3 Non-POU domain-containing octamer-binding protein 4 IP100320016.7 ISoform 1 of Non-POU domain-containing octamer-binding protein IP100230440.6 ISoform 1 of Non-POU domain-containing octamer-binding protein IP100476295.7 Ahcy Adenosylhomocysteinase 5 IP100476295.7 Ahcy Adenosylhomocysteinase 8 IP100373045.1 Eukaryotic translation initiation factor 4B IP100373045.1 Eukaryotic translation initiation factor 4B IP100763106.1 ID0683788 similar to fascin (singed-like protein) isoform 1 IP100768773.1 LOC683788 similar to fascin (singed-like protein) isoform 2 IP100120045.1 EG628438;Hspe1-rs1 CPN10-like protein 11 IP100263863.8 I0 kDa heat shock protein mitochondrial IP100129526.1 Hsp90b1 Endoplasmin precursor 4
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IPI00320016.7 Isoform 1 of Non-POU domain-containing octamer-binding protein
IPI00230440.6 ENSMUSG00000048538; Ahcy Adenosylhomocysteinase 5 IPI00476295.7 Ahcy Adenosylhomocysteinase 5 IPI00221581.1 Eukaryotic translation initiation factor 4B 8 IPI00373045.1 Eukaryotic translation initiation factor 4B 10 IPI00353563.4 Fascin 10 IPI00763106.1 LOC683788 similar to fascin (singed-like protein) isoform 1 IPI00767873.1 LOC683788 similar to fascin (singed-like protein) isoform 2 IPI00120045.1 EG628438; Hspe1-rs1 CPN10-like protein 11 IPI00263863.8 10 kDa heat shock protein mitochondrial IPI00129526.1 Hsp90b1 Endoplasmin precursor 4
IPI00476295.7 Ahcy Adenosylhomocysteinase 8 IPI00221581.1 Eukaryotic translation initiation factor 4B 8 IPI00373045.1 Eukaryotic translation initiation factor 4B 10 IPI00353563.4 Fascin 10 IPI00763106.1 LOC683788 similar to fascin (singed-like protein) isoform 1 IPI00767873.1 LOC683788 similar to fascin (singed-like protein) isoform 2 IPI00120045.1 EG628438;Hspe1-rs1 CPN10-like protein 11 IPI00263863.8 10 kDa heat shock protein mitochondrial IPI00129526.1 Hsp90b1 Endoplasmin precursor 4
IPI00221581.1 Eukaryotic translation initiation factor 4B 8 IPI00373045.1 Eukaryotic translation initiation factor 4B Eukaryotic translation initiation factor 4B IPI00353563.4 Fascin 10 IPI00763106.1 LOC683788 similar to fascin (singed-like protein) isoform 1 IPI00767873.1 LOC683788 similar to fascin (singed-like protein) isoform 2 IPI00120045.1 EG628438;Hspe1-rs1 CPN10-like protein 11 IPI00263863.8 10 kDa heat shock protein mitochondrial IPI00129526.1 Hsp90b1 Endoplasmin precursor 4
IPI00221581.1 Eukaryotic translation initiation factor 4B 8 IPI00373045.1 Eukaryotic translation initiation factor 4B Eukaryotic translation initiation factor 4B IPI00353563.4 Fascin 10 IPI00763106.1 LOC683788 similar to fascin (singed-like protein) isoform 1 IPI00767873.1 LOC683788 similar to fascin (singed-like protein) isoform 2 IPI00120045.1 EG628438;Hspe1-rs1 CPN10-like protein 11 IPI00263863.8 10 kDa heat shock protein mitochondrial IPI00129526.1 Hsp90b1 Endoplasmin precursor 4
IPI00373045.1 Eukaryotic translation initiation factor 4B IPI00353563.4 Fascin 10 IPI00763106.1 LOC683788 similar to fascin (singed-like protein) isoform 1 IPI00767873.1 LOC683788 similar to fascin (singed-like protein) isoform 2 IPI00120045.1 EG628438;Hspe1-rs1 CPN10-like protein 11 IPI00263863.8 10 kDa heat shock protein mitochondrial IPI00129526.1 Hsp90b1 Endoplasmin precursor 4
IPI00373045.1 Eukaryotic translation initiation factor 4B IPI00353563.4 Fascin 10 IPI00763106.1 LOC683788 similar to fascin (singed-like protein) isoform 1 IPI00767873.1 LOC683788 similar to fascin (singed-like protein) isoform 2 IPI00120045.1 EG628438;Hspe1-rs1 CPN10-like protein 11 IPI00263863.8 10 kDa heat shock protein mitochondrial IPI00129526.1 Hsp90b1 Endoplasmin precursor 4
IPI00353563.4 Fascin 10 IDI00763106.1 LOC683788 similar to fascin (singed-like protein) isoform 1 IDI00767873.1 LOC683788 similar to fascin (singed-like protein) isoform 2 IDI00120045.1 EG628438;Hspe1-rs1 CPN10-like protein 11 IDI00263863.8 I0 kDa heat shock protein mitochondrial IDI00129526.1 Hsp90b1 Endoplasmin precursor 4
IPI00763106.1 LOC683788 similar to fascin (singed-like protein) isoform 1 LOC683788 similar to fascin (singed-like protein) isoform 2 IPI00120045.1 EG628438;Hspe1-rs1 CPN10-like protein 11 IPI00263863.8 I0 kDa heat shock protein mitochondrial IPI00129526.1 Hsp90b1 Endoplasmin precursor 4
IPI00767873.1 LOC683788 similar to fascin (singed-like protein) isoform 2 IPI00120045.1 EG628438;Hspe1-rs1 CPN10-like protein 11 IPI00263863.8 10 kDa heat shock protein mitochondrial 11 IPI00129526.1 Hsp90b1 Endoplasmin precursor 4
IPI00120045.1 EG628438;Hspe1-rs1 CPN10-like protein 11 IPI00263863.8 10 kDa heat shock protein mitochondrial IPI00129526.1 Hsp90b1 Endoplasmin precursor 4
IPI00120045.1 EG628438;Hspe1-rs1 CPN10-like protein 11 IPI00263863.8 10 kDa heat shock protein mitochondrial IPI00129526.1 Hsp90b1 Endoplasmin precursor 4
IPI00263863.8 10 kDa heat shock protein mitochondrial IPI00129526.1 Hsp90b1 Endoplasmin precursor 4
IPI00129526.1 Hsp90b1 Endoplasmin precursor 4
IDIO0265005 4
IPI00365985.4 Tra1_predicted 93 kDa protein
IPI00734561.1 Tra1_predicted tumor rejection antigen gp96
IPI00137409.3 Transketolase 18
IPI00229080.7 Heat shock protein 84b 36
IPI00471584.7 Heat shock protein HSP 90-beta
IPI00230139.5 FK506-binding protein 4 3
g .
IPI00460253.2 Protein BUD31 homolog
IPI00560357.1 12 kDa protein
IPI00849741.1 LOC100045848 similar to BUD31 homolog (S. cerevisiae) isoform 1
IPI00856171.1 17 kDa protein

IPI00131186.2	LOC100041823 isoform 2 of transcription factor BTF3	9
IPI00372004.2	Basic transcription factor 3	
IPI00515257.1	Isoform 1 of transcription factor BTF3	
11 100313237.1	Isoloini 1 of transcription factor B11-3	
IPI00116281.3	T-complex protein 1 subunit zeta	14
IPI00188111.1	Chaperonin subunit 6a	14
IPI00780515.1	Cct6a protein	
IPI00323592.2	Malate dehydrogenase, mitochondrial precursor	27
IPI00133185.3	60S ribosomal protein L14	3
IPI00473728.1	ES cells cDNA RIKEN full-length enriched library clone:2410026P17 product:ribosomal	
11 100 1757 2011	protein L14 cytosolic homolog	
IDI00270015 2		1.1
IPI00370815.3	Predicted chaperonin subunit 8	11
IPI00469268.5	Complex protein 1 subunit theta	
IPI00464735.1	Cell growth-regulating nucleolar protein	3
IPI00554989.3	Peptidyl-prolyl cis-trans isomerase	5
IPI00133801.3	EG625193 nuclear protein hcc-1	11
		11
IPI00365946.3	RGD1305692 nuclear protein hcc-1	
IPI00222419.5	Cytochrome c somatic	15
IPI00231864.5	Cytochrome c somatic	
IPI00265239.1	LOC100045925 similar to cytochrome c	
IPI00362298.1	LOC684936 similar to cytochrome c somatic	
IPI00468481.2	ATP synthase subunit beta, mitochondrial precursor	17
IPI00265471.2	Lung RCB-0558 LLC cDNA RIKEN full-length enriched library clone:G730029K06	4
	product:adenylosuccinate lyase full insert sequence	•
IDI00209217 1		
IPI00308217.1	Adenylosuccinate lyase	
IPI00113223.2	Fatty acid synthase	6
IPI00327830.3	Fatty acid-binding protein, epidermal	9
IPI00126338.5	Isoform alpha of lamina-associated polypeptide 2 isoforms alpha/zeta	11
IPI00221402.7	Fructose-bisphosphate aldolase A	23
	1 1	23
IPI00856379.1	Fructose-bisphosphate aldolase	
IPI00122350.4	Small nuclear ribonucleoprotein A	5
IPI00127707.1	Isoform 1 of poly(rc)-binding protein 2	6
IPI00221796.1	Isoform 2 of poly(rc)-binding protein 2	
IPI00608171.1	Pcbp2 protein	
IPI00201500.8	40S ribosomal protein s14	6
IPI00322562.5	40S ribosomal protein s14	
IPI00119478.1	Tropomodulin-3	3
IPI00373505.2	Tropomodulin 3	
IPI00111831.1	Nascent polypeptide-associated complex subunit alpha muscle-specific form	10
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IPI00121297.1	Nascent polypeptide-associated complex subunit alpha	
IPI00371266.1	Predicted nascent-polypeptide-associated complex alpha polypeptide	
IPI00766113.2	Predicted 214 kDa protein	
IPI00134621.3	LOC100045999 GTP-binding nuclear protein Ran	16
IPI00212796.3	Ran GTP-binding nuclear protein Ran	
11 100212770.3	Kan GTT-binding nuclear protein Kan	
IPI00123313.1	Ubiquitin-like modifier-activating enzyme 1 X	6
IPI00123333.5	WW domain-binding protein 11	5
IPI00364589.1	WW domain-binding protein 11	-
	40S ribosomal protein s3	24
IPI00134599.1		24
IPI00212776.1	40S ribosomal protein s3	
IPI00231134.4	Guanine nucleotide-binding protein subunit beta-2-like 1	12
IPI00317740.5	Guanine nucleotide-binding protein subunit beta-2-like 1	
IPI00116074.1	Aconitate hydratase, mitochondrial precursor	15
IPI00127415.1	Nucleophosmin	22
		44
IPI00197553.1	Isoform B23.1 of nucleophosmin	
IPI00515155.1	Nucleophosmin 1	
IPI00778173.1	30 kDa protein	
IPI00849626.1	LOC100046628 similar to nucleophosmin	
IPI00393643.4	RGD1559743_predicted similar to 40s ribosomal protein s16	2
	Similar to 40s ribosomal protein s16	2
IPI00421451.4		
IPI00469918.4	ENSMUSG00000060419 Rps16 protein	
IPI00566464.2	19 kDa protein	
IPI00767883.1	LOC691983 similar to 40S ribosomal protein S16	
IPI00850220.1	LOC100047501 similar to rps16 protein	
IPI00881758.1	ENSMUSG00000060419	
11 100001 / 30.1	ENDITO DO COUTO TO	
IPI00116254.1	Peroxiredoxin-4	3
IPI00208209.1		3
11100208209.1	PRx IV	

IPI00124979.2	Heterogeneous nuclear ribonucleoprotein G	4
IPI00370207.3	LOC302855 Similar to heterogeneous nuclear ribonucleoprotein G-human	
IPI00474144.1	42 kDa protein	
IPI00559910.1	Predicted heterogeneous nuclear ribonucleoprotein G	
IPI00663587.1	RNA binding motif protein X chromosome retrogene	
IPI00763272.1	Similar to Heterogeneous nuclear ribonucleoprotein G (hnRNP G) (RNA-binding motif	
	protein X chromosome) isoform 1	
IPI00766882.1	Similar to Heterogeneous nuclear ribonucleoprotein G (hnRNP G) (RNA-binding motif	
11 100 / 00002.1	. , ,	
YDY00555004 4	protein X chromosome) isoform 1	
IPI00775821.1	RNA binding motif protein X chromosome	
IPI00775899.1	RNA binding motif protein X chromosome	
IPI00421392.1	LOC500959 triosephosphate isomerase	10
IPI00467833.5	Triosephosphate isomerase	
IPI00765670.1	LOC500959 similar to triosephosphate isomerase	
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IPI00459493.5	Isoform 1 of T-complex protein 1 subunit alpha B	12
IPI00123862.1	Isoform gamma-1 of serine/threonine-protein phosphatase PP1-gamma catalytic subunit	6
IPI00130185.1	Serine/threonine-protein phosphatase PP1-alpha catalytic subunit	
IPI00203358.1	Isoform gamma-1 of serine/threonine-protein phosphatase PP1-gamma catalytic subunit	
IPI00203390.3	Serine/threonine-protein phosphatase PP1-beta catalytic subunit	
IPI00208265.1	Serine/threonine-protein phosphatase PP1-alpha catalytic subunit	
IPI00227773.1	Isoform gamma-2 of serine/threonine-protein phosphatase PP1-gamma catalytic subunit	
IPI00231715.1	Isoform gamma-2 of Serine/threonine-protein phosphatase PP1-gamma catalytic subunit	
IPI00311873.5	Serine/threonine-protein phosphatase PP1-beta catalytic subunit	
IPI00875406.1	Serine/threonine protein phosphatase (fragment)	
IPI00373651.3	Predicted similar to apoptosis inhibitor 5	6
IPI00399961.2	11 days embryo head cDNA RIKEN full-length enriched library clone:6230411L24	
11 100377701.2		
***************************************	product:apoptosis inhibitor 5 full insert sequence	
IPI00754418.1	Apoptosis inhibitor 5	
IPI00331361.2	Myb-binding protein 1a	7
IPI00411074.2	Poly(rC) binding protein 3	9
IPI00411075.1	Isoform 2 of poly(rC)-binding protein 3	,
	1 1 7	
IPI00558998.2	36 kDa protein	
IPI00207355.4	Heat shock-related 70 kDa protein 2	9
IPI00387494.1	Heat shock protein 2	
IPI00117910.3	Peroxiredoxin-2	13
IPI00203214.6	Elongation factor 2	54
	Elongation factor 2	34
IPI00466069.3		
IPI00115987.1	Nuclear autoantigenic sperm protein isoform 1	2
IPI00130959.5	LOC100043974; Isoform 1 of Nuclear autoantigenic sperm protein	
IPI00209377.2	49 kDa protein	
IPI00365215.1	Nuclear autoantigenic sperm protein	
IPI00830976.1	nuclear autoantigenic sperm protein isoform 2	
IPI00857345.1	20 kDa protein	ı
IPI00886474.1	Putative uncharacterized protein	7
IPI00208123.4		7
IPI00225633.3		7 8
11 10022000.0	Activated RNA polymerase II transcriptional coactivator p15	-
IDI00322402 3	Activated RNA polymerase II transcriptional coactivator p15 Activated RNA polymerase II transcriptional coactivator p15	8
IPI00322492.3	Activated RNA polymerase II transcriptional coactivator p15 Activated RNA polymerase II transcriptional coactivator p15 Ewing sarcoma homolog	-
IPI00364603.2	Activated RNA polymerase II transcriptional coactivator p15 Activated RNA polymerase II transcriptional coactivator p15 Ewing sarcoma homolog Similar to Ewing sarcoma breakpoint region 1 isoform EWS	8
IPI00364603.2 IPI00515199.1	Activated RNA polymerase II transcriptional coactivator p15 Activated RNA polymerase II transcriptional coactivator p15 Ewing sarcoma homolog Similar to Ewing sarcoma breakpoint region 1 isoform EWS Ewing sarcoma homolog	8
IPI00364603.2	Activated RNA polymerase II transcriptional coactivator p15 Activated RNA polymerase II transcriptional coactivator p15 Ewing sarcoma homolog Similar to Ewing sarcoma breakpoint region 1 isoform EWS Ewing sarcoma homolog RNA-binding protein EWS	8
IPI00364603.2 IPI00515199.1	Activated RNA polymerase II transcriptional coactivator p15 Activated RNA polymerase II transcriptional coactivator p15 Ewing sarcoma homolog Similar to Ewing sarcoma breakpoint region 1 isoform EWS Ewing sarcoma homolog	8
IPI00364603.2 IPI00515199.1 IPI00742310.4	Activated RNA polymerase II transcriptional coactivator p15 Activated RNA polymerase II transcriptional coactivator p15 Ewing sarcoma homolog Similar to Ewing sarcoma breakpoint region 1 isoform EWS Ewing sarcoma homolog RNA-binding protein EWS Similar to Ewing sarcoma breakpoint region 1 isoform EWS isoform 5	8
IPI00364603.2 IPI00515199.1 IPI00742310.4 IPI00764664.2 IPI00765468.1	Activated RNA polymerase II transcriptional coactivator p15 Activated RNA polymerase II transcriptional coactivator p15 Ewing sarcoma homolog Similar to Ewing sarcoma breakpoint region 1 isoform EWS Ewing sarcoma homolog RNA-binding protein EWS Similar to Ewing sarcoma breakpoint region 1 isoform EWS isoform 5 Similar to Ewing sarcoma breakpoint region 1 isoform EWS isoform 3	8
IPI00364603.2 IPI00515199.1 IPI00742310.4 IPI00764664.2 IPI00765468.1 IPI00765782.1	Activated RNA polymerase II transcriptional coactivator p15 Activated RNA polymerase II transcriptional coactivator p15 Ewing sarcoma homolog Similar to Ewing sarcoma breakpoint region 1 isoform EWS Ewing sarcoma homolog RNA-binding protein EWS Similar to Ewing sarcoma breakpoint region 1 isoform EWS isoform 5 Similar to Ewing sarcoma breakpoint region 1 isoform EWS isoform 3 Similar to RNA-binding protein EWS isoform 2	8
IPI00364603.2 IPI00515199.1 IPI00742310.4 IPI00764664.2 IPI00765468.1 IPI00765782.1 IPI00766592.1	Activated RNA polymerase II transcriptional coactivator p15 Activated RNA polymerase II transcriptional coactivator p15 Ewing sarcoma homolog Similar to Ewing sarcoma breakpoint region 1 isoform EWS Ewing sarcoma homolog RNA-binding protein EWS Similar to Ewing sarcoma breakpoint region 1 isoform EWS isoform 5 Similar to Ewing sarcoma breakpoint region 1 isoform EWS isoform 3 Similar to RNA-binding protein EWS isoform 2 Ewing sarcoma breakpoint region 1	8
IPI00364603.2 IPI00515199.1 IPI00742310.4 IPI00764664.2 IPI00765468.1 IPI00765782.1 IPI00766592.1 IPI00767290.2	Activated RNA polymerase II transcriptional coactivator p15 Activated RNA polymerase II transcriptional coactivator p15 Ewing sarcoma homolog Similar to Ewing sarcoma breakpoint region 1 isoform EWS Ewing sarcoma homolog RNA-binding protein EWS Similar to Ewing sarcoma breakpoint region 1 isoform EWS isoform 5 Similar to Ewing sarcoma breakpoint region 1 isoform EWS isoform 3 Similar to RNA-binding protein EWS isoform 2 Ewing sarcoma breakpoint region 1 Similar to RNA-binding protein EWS isoform 4	8
IPI00364603.2 IPI00515199.1 IPI00742310.4 IPI00764664.2 IPI00765468.1 IPI00765782.1 IPI00766592.1 IPI00767290.2 IPI00768647.1	Activated RNA polymerase II transcriptional coactivator p15 Activated RNA polymerase II transcriptional coactivator p15 Ewing sarcoma homolog Similar to Ewing sarcoma breakpoint region 1 isoform EWS Ewing sarcoma homolog RNA-binding protein EWS Similar to Ewing sarcoma breakpoint region 1 isoform EWS isoform 5 Similar to Ewing sarcoma breakpoint region 1 isoform EWS isoform 3 Similar to RNA-binding protein EWS isoform 2 Ewing sarcoma breakpoint region 1 Similar to RNA-binding protein EWS isoform 4 Similar to RNA-binding protein EWS isoform 1	8
IPI00364603.2 IPI00515199.1 IPI00742310.4 IPI00764664.2 IPI00765468.1 IPI00765782.1 IPI00766592.1 IPI00767290.2	Activated RNA polymerase II transcriptional coactivator p15 Activated RNA polymerase II transcriptional coactivator p15 Ewing sarcoma homolog Similar to Ewing sarcoma breakpoint region 1 isoform EWS Ewing sarcoma homolog RNA-binding protein EWS Similar to Ewing sarcoma breakpoint region 1 isoform EWS isoform 5 Similar to Ewing sarcoma breakpoint region 1 isoform EWS isoform 3 Similar to RNA-binding protein EWS isoform 2 Ewing sarcoma breakpoint region 1 Similar to RNA-binding protein EWS isoform 4 Similar to RNA-binding protein EWS isoform 1 Ewing sarcoma breakpoint region 1	5
IPI00364603.2 IPI00515199.1 IPI00742310.4 IPI00764664.2 IPI00765468.1 IPI00765782.1 IPI00766592.1 IPI00767290.2 IPI00768647.1	Activated RNA polymerase II transcriptional coactivator p15 Activated RNA polymerase II transcriptional coactivator p15 Ewing sarcoma homolog Similar to Ewing sarcoma breakpoint region 1 isoform EWS Ewing sarcoma homolog RNA-binding protein EWS Similar to Ewing sarcoma breakpoint region 1 isoform EWS isoform 5 Similar to Ewing sarcoma breakpoint region 1 isoform EWS isoform 3 Similar to RNA-binding protein EWS isoform 2 Ewing sarcoma breakpoint region 1 Similar to RNA-binding protein EWS isoform 4 Similar to RNA-binding protein EWS isoform 1	8
IPI00364603.2 IPI00515199.1 IPI00742310.4 IPI00764664.2 IPI00765782.1 IPI00766592.1 IPI00767290.2 IPI00768647.1 IPI00875852.1 IPI00212186.1	Activated RNA polymerase II transcriptional coactivator p15 Activated RNA polymerase II transcriptional coactivator p15 Ewing sarcoma homolog Similar to Ewing sarcoma breakpoint region 1 isoform EWS Ewing sarcoma homolog RNA-binding protein EWS Similar to Ewing sarcoma breakpoint region 1 isoform EWS isoform 5 Similar to Ewing sarcoma breakpoint region 1 isoform EWS isoform 3 Similar to RNA-binding protein EWS isoform 2 Ewing sarcoma breakpoint region 1 Similar to RNA-binding protein EWS isoform 4 Similar to RNA-binding protein EWS isoform 1 Ewing sarcoma breakpoint region 1 Predicted similar to 40S ribosomal protein S20	5
IPI00364603.2 IPI00515199.1 IPI00742310.4 IPI00764664.2 IPI00765782.1 IPI00766592.1 IPI00767290.2 IPI00768647.1 IPI00875852.1 IPI00212186.1 IPI00323819.3	Activated RNA polymerase II transcriptional coactivator p15 Activated RNA polymerase II transcriptional coactivator p15 Ewing sarcoma homolog Similar to Ewing sarcoma breakpoint region 1 isoform EWS Ewing sarcoma homolog RNA-binding protein EWS Similar to Ewing sarcoma breakpoint region 1 isoform EWS isoform 5 Similar to Ewing sarcoma breakpoint region 1 isoform EWS isoform 3 Similar to RNA-binding protein EWS isoform 2 Ewing sarcoma breakpoint region 1 Similar to RNA-binding protein EWS isoform 4 Similar to RNA-binding protein EWS isoform 1 Ewing sarcoma breakpoint region 1 Predicted similar to 40S ribosomal protein S20 40S ribosomal protein S20	5
IPI00364603.2 IPI00515199.1 IPI00742310.4 IPI00765468.1 IPI00765782.1 IPI00766592.1 IPI00767290.2 IPI00768647.1 IPI00875852.1 IPI00212186.1 IPI00323819.3 IPI00475776.1	Activated RNA polymerase II transcriptional coactivator p15 Activated RNA polymerase II transcriptional coactivator p15 Ewing sarcoma homolog Similar to Ewing sarcoma breakpoint region 1 isoform EWS Ewing sarcoma homolog RNA-binding protein EWS Similar to Ewing sarcoma breakpoint region 1 isoform EWS isoform 5 Similar to Ewing sarcoma breakpoint region 1 isoform EWS isoform 3 Similar to RNA-binding protein EWS isoform 2 Ewing sarcoma breakpoint region 1 Similar to RNA-binding protein EWS isoform 4 Similar to RNA-binding protein EWS isoform 1 Ewing sarcoma breakpoint region 1 Predicted similar to 40S ribosomal protein S20 40S ribosomal protein S20	5
IPI00364603.2 IPI00515199.1 IPI00742310.4 IPI00764664.2 IPI00765468.1 IPI00765782.1 IPI00766592.1 IPI00767290.2 IPI00768647.1 IPI00875852.1 IPI00212186.1 IPI00323819.3 IPI00475776.1 IPI00777367.1	Activated RNA polymerase II transcriptional coactivator p15 Activated RNA polymerase II transcriptional coactivator p15 Ewing sarcoma homolog Similar to Ewing sarcoma breakpoint region 1 isoform EWS Ewing sarcoma homolog RNA-binding protein EWS Similar to Ewing sarcoma breakpoint region 1 isoform EWS isoform 5 Similar to Ewing sarcoma breakpoint region 1 isoform EWS isoform 3 Similar to RNA-binding protein EWS isoform 2 Ewing sarcoma breakpoint region 1 Similar to RNA-binding protein EWS isoform 4 Similar to RNA-binding protein EWS isoform 1 Ewing sarcoma breakpoint region 1 Predicted similar to 40S ribosomal protein S20 40S ribosomal protein S20 13 kDa protein	5
IPI00364603.2 IPI00515199.1 IPI00742310.4 IPI00765468.1 IPI00765782.1 IPI00766592.1 IPI00767290.2 IPI00768647.1 IPI00875852.1 IPI00212186.1 IPI00323819.3 IPI00475776.1	Activated RNA polymerase II transcriptional coactivator p15 Activated RNA polymerase II transcriptional coactivator p15 Ewing sarcoma homolog Similar to Ewing sarcoma breakpoint region 1 isoform EWS Ewing sarcoma homolog RNA-binding protein EWS Similar to Ewing sarcoma breakpoint region 1 isoform EWS isoform 5 Similar to Ewing sarcoma breakpoint region 1 isoform EWS isoform 3 Similar to RNA-binding protein EWS isoform 2 Ewing sarcoma breakpoint region 1 Similar to RNA-binding protein EWS isoform 4 Similar to RNA-binding protein EWS isoform 1 Ewing sarcoma breakpoint region 1 Predicted similar to 40S ribosomal protein S20 40S ribosomal protein S20 40S ribosomal protein S20 13 kDa protein Activated spleen cDNA RIKEN full-length enriched library clone:F830304D19	5
IPI00364603.2 IPI00515199.1 IPI00742310.4 IPI00764664.2 IPI00765468.1 IPI00765782.1 IPI00767290.2 IPI00768647.1 IPI00875852.1 IPI00212186.1 IPI00323819.3 IPI00475776.1 IPI00777367.1	Activated RNA polymerase II transcriptional coactivator p15 Activated RNA polymerase II transcriptional coactivator p15 Ewing sarcoma homolog Similar to Ewing sarcoma breakpoint region 1 isoform EWS Ewing sarcoma homolog RNA-binding protein EWS Similar to Ewing sarcoma breakpoint region 1 isoform EWS isoform 5 Similar to Ewing sarcoma breakpoint region 1 isoform EWS isoform 3 Similar to RNA-binding protein EWS isoform 2 Ewing sarcoma breakpoint region 1 Similar to RNA-binding protein EWS isoform 4 Similar to RNA-binding protein EWS isoform 1 Ewing sarcoma breakpoint region 1 Predicted similar to 40S ribosomal protein S20 40S ribosomal protein S20 40S ribosomal protein S20 13 kDa protein Activated spleen cDNA RIKEN full-length enriched library clone:F830304D19 product:polypyrimidine tract binding protein 1 full insert sequence	5
IPI00364603.2 IPI00515199.1 IPI00742310.4 IPI00764664.2 IPI00765468.1 IPI00765782.1 IPI00767290.2 IPI00768647.1 IPI00875852.1 IPI00212186.1 IPI00323819.3 IPI00475776.1 IPI00777367.1	Activated RNA polymerase II transcriptional coactivator p15 Activated RNA polymerase II transcriptional coactivator p15 Ewing sarcoma homolog Similar to Ewing sarcoma breakpoint region 1 isoform EWS Ewing sarcoma homolog RNA-binding protein EWS Similar to Ewing sarcoma breakpoint region 1 isoform EWS isoform 5 Similar to Ewing sarcoma breakpoint region 1 isoform EWS isoform 3 Similar to RNA-binding protein EWS isoform 2 Ewing sarcoma breakpoint region 1 Similar to RNA-binding protein EWS isoform 4 Similar to RNA-binding protein EWS isoform 1 Ewing sarcoma breakpoint region 1 Predicted similar to 40S ribosomal protein S20 40S ribosomal protein S20 40S ribosomal protein S20 13 kDa protein Activated spleen cDNA RIKEN full-length enriched library clone:F830304D19	5
IPI00364603.2 IPI00515199.1 IPI00742310.4 IPI00764664.2 IPI00765782.1 IPI00766592.1 IPI00766592.1 IPI00767290.2 IPI00768647.1 IPI00875852.1 IPI00212186.1 IPI00323819.3 IPI00475776.1 IPI00777367.1 IPI00136883.3	Activated RNA polymerase II transcriptional coactivator p15 Activated RNA polymerase II transcriptional coactivator p15 Ewing sarcoma homolog Similar to Ewing sarcoma breakpoint region 1 isoform EWS Ewing sarcoma homolog RNA-binding protein EWS Similar to Ewing sarcoma breakpoint region 1 isoform EWS isoform 5 Similar to Ewing sarcoma breakpoint region 1 isoform EWS isoform 3 Similar to RNA-binding protein EWS isoform 2 Ewing sarcoma breakpoint region 1 Similar to RNA-binding protein EWS isoform 4 Similar to RNA-binding protein EWS isoform 1 Ewing sarcoma breakpoint region 1 Predicted similar to 40S ribosomal protein S20 40S ribosomal protein S20 40S ribosomal protein S20 13 kDa protein Activated spleen cDNA RIKEN full-length enriched library clone:F830304D19 product:polypyrimidine tract binding protein 1 full insert sequence Isoform PYBP1 of polypyrimidine tract-binding protein 1	5
IPI00364603.2 IPI00515199.1 IPI00742310.4 IPI00764664.2 IPI00765782.1 IPI00766592.1 IPI00766592.1 IPI00768647.1 IPI00875852.1 IPI00212186.1 IPI00323819.3 IPI00475776.1 IPI00777367.1 IPI00136883.3 IPI00231555.1 IPI00390239.1	Activated RNA polymerase II transcriptional coactivator p15 Activated RNA polymerase II transcriptional coactivator p15 Ewing sarcoma homolog Similar to Ewing sarcoma breakpoint region 1 isoform EWS Ewing sarcoma homolog RNA-binding protein EWS Similar to Ewing sarcoma breakpoint region 1 isoform EWS isoform 5 Similar to Ewing sarcoma breakpoint region 1 isoform EWS isoform 3 Similar to RNA-binding protein EWS isoform 2 Ewing sarcoma breakpoint region 1 Similar to RNA-binding protein EWS isoform 4 Similar to RNA-binding protein EWS isoform 1 Ewing sarcoma breakpoint region 1 Predicted similar to 40S ribosomal protein S20 40S ribosomal protein S20 40S ribosomal protein S20 13 kDa protein Activated spleen cDNA RIKEN full-length enriched library clone:F830304D19 product:polypyrimidine tract binding protein 1 full insert sequence Isoform PYBP1 of polypyrimidine tract-binding protein 1 Ptbp1 protein	5
IPI00364603.2 IPI00515199.1 IPI00742310.4 IPI00764664.2 IPI00765782.1 IPI00765782.1 IPI00767290.2 IPI00768647.1 IPI00875852.1 IPI00212186.1 IPI00323819.3 IPI00475776.1 IPI00136883.3 IPI00231555.1 IPI00390239.1 IPI00390801.2	Activated RNA polymerase II transcriptional coactivator p15 Activated RNA polymerase II transcriptional coactivator p15 Ewing sarcoma homolog Similar to Ewing sarcoma breakpoint region 1 isoform EWS Ewing sarcoma homolog RNA-binding protein EWS Similar to Ewing sarcoma breakpoint region 1 isoform EWS isoform 5 Similar to Ewing sarcoma breakpoint region 1 isoform EWS isoform 3 Similar to RNA-binding protein EWS isoform 2 Ewing sarcoma breakpoint region 1 Similar to RNA-binding protein EWS isoform 4 Similar to RNA-binding protein EWS isoform 1 Ewing sarcoma breakpoint region 1 Predicted similar to 40S ribosomal protein S20 40S ribosomal protein S20 40S ribosomal protein S20 13 kDa protein Activated spleen cDNA RIKEN full-length enriched library clone:F830304D19 product:polypyrimidine tract binding protein 1 full insert sequence Isoform PYBP1 of polypyrimidine tract-binding protein 1 Ptbp1 protein 56 kDa protein	5
IPI00364603.2 IPI00515199.1 IPI00742310.4 IPI00764664.2 IPI00765468.1 IPI00765782.1 IPI00766592.1 IPI00767290.2 IPI00768647.1 IPI00823819.3 IPI00475776.1 IPI00323819.3 IPI00475776.1 IPI00136883.3 IPI00231555.1 IPI00390801.2 IPI00390801.2 IPI00475378.4	Activated RNA polymerase II transcriptional coactivator p15 Activated RNA polymerase II transcriptional coactivator p15 Ewing sarcoma homolog Similar to Ewing sarcoma breakpoint region 1 isoform EWS Ewing sarcoma homolog RNA-binding protein EWS Similar to Ewing sarcoma breakpoint region 1 isoform EWS isoform 5 Similar to Ewing sarcoma breakpoint region 1 isoform EWS isoform 3 Similar to RNA-binding protein EWS isoform 2 Ewing sarcoma breakpoint region 1 Similar to RNA-binding protein EWS isoform 4 Similar to RNA-binding protein EWS isoform 1 Ewing sarcoma breakpoint region 1 Predicted similar to 40S ribosomal protein S20 40S ribosomal protein S20 40S ribosomal protein S20 13 kDa protein Activated spleen cDNA RIKEN full-length enriched library clone:F830304D19 product:polypyrimidine tract binding protein 1 full insert sequence Isoform PYBP1 of polypyrimidine tract-binding protein 1 Ptbp1 protein 56 kDa protein Polypyrimidine tract binding protein 1 isoform 1	5
IPI00364603.2 IPI00515199.1 IPI00742310.4 IPI00764664.2 IPI00765468.1 IPI00766592.1 IPI00767290.2 IPI00768647.1 IPI00875852.1 IPI00212186.1 IPI00323819.3 IPI00475776.1 IPI00376883.3 IPI00231555.1 IPI00390239.1 IPI00390801.2 IPI00475378.4 IPI00562850.1	Activated RNA polymerase II transcriptional coactivator p15 Activated RNA polymerase II transcriptional coactivator p15 Ewing sarcoma homolog Similar to Ewing sarcoma breakpoint region 1 isoform EWS Ewing sarcoma homolog RNA-binding protein EWS Similar to Ewing sarcoma breakpoint region 1 isoform EWS isoform 5 Similar to Ewing sarcoma breakpoint region 1 isoform EWS isoform 3 Similar to RNA-binding protein EWS isoform 2 Ewing sarcoma breakpoint region 1 Similar to RNA-binding protein EWS isoform 4 Similar to RNA-binding protein EWS isoform 1 Ewing sarcoma breakpoint region 1 Predicted similar to 40S ribosomal protein S20 40S ribosomal protein S20 40S ribosomal protein S20 13 kDa protein Activated spleen cDNA RIKEN full-length enriched library clone:F830304D19 product:polypyrimidine tract binding protein 1 full insert sequence Isoform PYBP1 of polypyrimidine tract-binding protein 1 Ptbp1 protein 56 kDa protein Polypyrimidine tract binding protein 1 isoform 1 Ptbp1 59 kDa protein	5
IPI00364603.2 IPI00515199.1 IPI00742310.4 IPI00764664.2 IPI00765468.1 IPI00765782.1 IPI00766592.1 IPI00767290.2 IPI00768647.1 IPI00823819.3 IPI00475776.1 IPI00136883.3 IPI00231555.1 IPI00390801.2 IPI00390801.2 IPI00475378.4	Activated RNA polymerase II transcriptional coactivator p15 Activated RNA polymerase II transcriptional coactivator p15 Ewing sarcoma homolog Similar to Ewing sarcoma breakpoint region 1 isoform EWS Ewing sarcoma homolog RNA-binding protein EWS Similar to Ewing sarcoma breakpoint region 1 isoform EWS isoform 5 Similar to Ewing sarcoma breakpoint region 1 isoform EWS isoform 3 Similar to RNA-binding protein EWS isoform 2 Ewing sarcoma breakpoint region 1 Similar to RNA-binding protein EWS isoform 4 Similar to RNA-binding protein EWS isoform 1 Ewing sarcoma breakpoint region 1 Predicted similar to 40S ribosomal protein S20 40S ribosomal protein S20 40S ribosomal protein S20 13 kDa protein Activated spleen cDNA RIKEN full-length enriched library clone:F830304D19 product:polypyrimidine tract binding protein 1 full insert sequence Isoform PYBP1 of polypyrimidine tract-binding protein 1 Ptbp1 protein 56 kDa protein Polypyrimidine tract binding protein 1 isoform 1	5
IPI00364603.2 IPI00515199.1 IPI00742310.4 IPI00764664.2 IPI00765468.1 IPI00766592.1 IPI00767290.2 IPI00768647.1 IPI00875852.1 IPI00212186.1 IPI00323819.3 IPI00475776.1 IPI00376883.3 IPI00231555.1 IPI00390239.1 IPI00390801.2 IPI00475378.4 IPI00562850.1	Activated RNA polymerase II transcriptional coactivator p15 Activated RNA polymerase II transcriptional coactivator p15 Ewing sarcoma homolog Similar to Ewing sarcoma breakpoint region 1 isoform EWS Ewing sarcoma homolog RNA-binding protein EWS Similar to Ewing sarcoma breakpoint region 1 isoform EWS isoform 5 Similar to Ewing sarcoma breakpoint region 1 isoform EWS isoform 3 Similar to RNA-binding protein EWS isoform 2 Ewing sarcoma breakpoint region 1 Similar to RNA-binding protein EWS isoform 4 Similar to RNA-binding protein EWS isoform 1 Ewing sarcoma breakpoint region 1 Predicted similar to 40S ribosomal protein S20 40S ribosomal protein S20 40S ribosomal protein S20 13 kDa protein Activated spleen cDNA RIKEN full-length enriched library clone:F830304D19 product:polypyrimidine tract binding protein 1 full insert sequence Isoform PYBP1 of polypyrimidine tract-binding protein 1 Ptbp1 protein 56 kDa protein Polypyrimidine tract binding protein 1 isoform 1 Ptbp1 59 kDa protein	5
IPI00364603.2 IPI00515199.1 IPI00742310.4 IPI00764664.2 IPI00765468.1 IPI00766592.1 IPI00767290.2 IPI00768647.1 IPI00875852.1 IPI00212186.1 IPI00323819.3 IPI00475776.1 IPI00376883.3 IPI00231555.1 IPI00390239.1 IPI00390801.2 IPI00475378.4 IPI00562850.1	Activated RNA polymerase II transcriptional coactivator p15 Activated RNA polymerase II transcriptional coactivator p15 Ewing sarcoma homolog Similar to Ewing sarcoma breakpoint region 1 isoform EWS Ewing sarcoma homolog RNA-binding protein EWS Similar to Ewing sarcoma breakpoint region 1 isoform EWS isoform 5 Similar to Ewing sarcoma breakpoint region 1 isoform EWS isoform 3 Similar to RNA-binding protein EWS isoform 2 Ewing sarcoma breakpoint region 1 Similar to RNA-binding protein EWS isoform 4 Similar to RNA-binding protein EWS isoform 1 Ewing sarcoma breakpoint region 1 Predicted similar to 40S ribosomal protein S20 40S ribosomal protein S20 40S ribosomal protein S20 13 kDa protein Activated spleen cDNA RIKEN full-length enriched library clone:F830304D19 product:polypyrimidine tract binding protein 1 full insert sequence Isoform PYBP1 of polypyrimidine tract-binding protein 1 Ptbp1 protein 56 kDa protein Polypyrimidine tract binding protein 1 isoform 1 Ptbp1 59 kDa protein	5
IPI00364603.2 IPI00515199.1 IPI00742310.4 IPI00764664.2 IPI00765782.1 IPI00766592.1 IPI00766592.1 IPI00766847.1 IPI00875852.1 IPI00312186.1 IPI00323819.3 IPI00475776.1 IPI00136883.3 IPI00390801.2 IPI00390801.2 IPI00479991.5	Activated RNA polymerase II transcriptional coactivator p15 Activated RNA polymerase II transcriptional coactivator p15 Ewing sarcoma homolog Similar to Ewing sarcoma breakpoint region 1 isoform EWS Ewing sarcoma homolog RNA-binding protein EWS Similar to Ewing sarcoma breakpoint region 1 isoform EWS isoform 5 Similar to Ewing sarcoma breakpoint region 1 isoform EWS isoform 3 Similar to Ewing sarcoma breakpoint region 1 isoform EWS isoform 3 Similar to RNA-binding protein EWS isoform 2 Ewing sarcoma breakpoint region 1 Similar to RNA-binding protein EWS isoform 4 Similar to RNA-binding protein EWS isoform 1 Ewing sarcoma breakpoint region 1 Predicted similar to 40S ribosomal protein S20 40S ribosomal protein S20 40S ribosomal protein S20 13 kDa protein Activated spleen cDNA RIKEN full-length enriched library clone:F830304D19 product:polypyrimidine tract binding protein 1 full insert sequence Isoform PYBP1 of polypyrimidine tract-binding protein 1 Ptbp1 protein 56 kDa protein Polypyrimidine tract binding protein 1 isoform 1 Ptbp1 59 kDa protein Polypyrimidine tract-binding protein 1 Staphylococcal nuclease domain-containing protein 1	11 16 27
IPI00364603.2 IPI00515199.1 IPI00742310.4 IPI00764664.2 IPI00765468.1 IPI00765782.1 IPI0076592.1 IPI00768647.1 IPI00768552.1 IPI00212186.1 IPI00323819.3 IPI00475776.1 IPI0031555.1 IPI00390239.1 IPI00390801.2 IPI00475378.4 IPI00562850.1 IPI00749991.5 IPI00123129.1 IPI00308885.6	Activated RNA polymerase II transcriptional coactivator p15 Activated RNA polymerase II transcriptional coactivator p15 Ewing sarcoma homolog Similar to Ewing sarcoma breakpoint region 1 isoform EWS Ewing sarcoma homolog RNA-binding protein EWS Similar to Ewing sarcoma breakpoint region 1 isoform EWS isoform 5 Similar to Ewing sarcoma breakpoint region 1 isoform EWS isoform 3 Similar to RNA-binding protein EWS isoform 2 Ewing sarcoma breakpoint region 1 Similar to RNA-binding protein EWS isoform 4 Similar to RNA-binding protein EWS isoform 4 Similar to RNA-binding protein EWS isoform 1 Ewing sarcoma breakpoint region 1 Predicted similar to 40S ribosomal protein S20 40S ribosomal protein S20 13 kDa protein Activated spleen cDNA RIKEN full-length enriched library clone:F830304D19 product:polypyrimidine tract binding protein 1 full insert sequence Isoform PYBP1 of polypyrimidine tract-binding protein 1 Ptbp1 protein 56 kDa protein Polypyrimidine tract binding protein 1 isoform 1 Ptbp1 59 kDa protein Polypyrimidine tract-binding protein 1 Staphylococcal nuclease domain-containing protein 1 Isoform 1 of 60 kDa heat shock protein mitochondrial precursor	11 16
IPI00364603.2 IPI00515199.1 IPI00742310.4 IPI00764664.2 IPI00765782.1 IPI00766592.1 IPI00766592.1 IPI00766847.1 IPI00875852.1 IPI00312186.1 IPI00323819.3 IPI00475776.1 IPI00136883.3 IPI00390801.2 IPI00390801.2 IPI00479991.5	Activated RNA polymerase II transcriptional coactivator p15 Activated RNA polymerase II transcriptional coactivator p15 Ewing sarcoma homolog Similar to Ewing sarcoma breakpoint region 1 isoform EWS Ewing sarcoma homolog RNA-binding protein EWS Similar to Ewing sarcoma breakpoint region 1 isoform EWS isoform 5 Similar to Ewing sarcoma breakpoint region 1 isoform EWS isoform 3 Similar to Ewing sarcoma breakpoint region 1 isoform EWS isoform 3 Similar to RNA-binding protein EWS isoform 2 Ewing sarcoma breakpoint region 1 Similar to RNA-binding protein EWS isoform 4 Similar to RNA-binding protein EWS isoform 1 Ewing sarcoma breakpoint region 1 Predicted similar to 40S ribosomal protein S20 40S ribosomal protein S20 40S ribosomal protein S20 13 kDa protein Activated spleen cDNA RIKEN full-length enriched library clone:F830304D19 product:polypyrimidine tract binding protein 1 full insert sequence Isoform PYBP1 of polypyrimidine tract-binding protein 1 Ptbp1 protein 56 kDa protein Polypyrimidine tract binding protein 1 isoform 1 Ptbp1 59 kDa protein Polypyrimidine tract-binding protein 1 Staphylococcal nuclease domain-containing protein 1	11 16 27

IPI00202214.1	60S ribosomal protein L19	
IPI00264398.3	LOC100041511 similar to Mus musculus ribosomal protein L19	
IPI00648315.1	Ribosomal protein L19	
IPI00850221.1	Ribosomal protein L19	
IPI00115620.1	Phosphoserine aminotransferase	3
IPI00848485.1	LOC100047252 similar to Phosphoserine aminotransferase 1 isoform 2	
IPI00849478.1	LOC100047252 similar to Phosphoserine aminotransferase 1 isoform 1	
IPI00885829.1	Psat1 Bone marrow macrophage cDNA RIKEN full-length enriched library	
	clone:I830122I01 product:phosphoserine aminotransferase 1 full insert sequence	
IPI00407130.4	Isoform M2 of Pyruvate kinase isozymes M1/M2	26
IPI00231426.6	Phosphoglycerate kinase 1	9
IPI00320217.9	Cct2 T-complex protein 1 subunit beta	16
IPI00331174.5	Cct7 T-complex protein 1 subunit eta	9
IPI00364286.3	Cct7_predicted chaperonin subunit 7	
IPI00114945.1	Septin-2	3
IPI00208304.1	Septin-2	
IPI00321308.4	Alanyl-tRNA synthetase cytoplasmic	5
IPI00363563.3	Aars similar to alanyl-tRNA synthetase	
IPI00198717.8	Malate dehydrogenase cytoplasmic	8
IPI00336324.1	Malate dehydrogenase cytoplasmic	O
IPI00231693.5	40S ribosomal protein S3a	10
IPI00331345.5	40S ribosomal protein S3a	10
IPI00473521.1	LOC100043780 similar to ribosomal protein S3a	
IPI00473321.1 IPI00132460.1	60S ribosomal protein L26	4
IPI00132460.1 IPI00200552.3	60S ribosomal protein L26	4
IPI00358844.3 IPI00474008.2	RGD1565215_predicted similar to 60S ribosomal protein L26 EG433050 similar to ribosomal protein L26	
IPI00649136.1	Ribosomal protein L26	
IPI00874521.1	17 kDa protein	
IPI00880492.1	Ribosomal protein L26	2
IPI00108454.2	29 kDa protein	3
IPI00113655.1	LOC667739 40S ribosomal protein S6	
IPI00192486.1	40S ribosomal protein S6	
IPI00474622.1	LOC100043734 hypothetical protein isoform 1	
IPI00671512.3	LOC675985 similar to ribosomal protein S6	
IPI00112555.3	Glycyl-tRNA synthetase	5
IPI00364262.3	Gars similar to glycyl-tRNA synthetase	
IPI00766072.1	Gars similar to glycyl-tRNA synthetase	
IPI00196661.1	14-3-3 protein theta	7
IPI00408378.4	Isoform 1 of 14-3-3 protein theta	
IPI00656269.1	Isoform 2 of 14-3-3 protein theta	
IPI00853924.1	34 kDa protein	
IPI00127172.3	ATP-dependent RNA helicase DDX1	3
IPI00555314.1	ATP-dependent RNA helicase DDX1	
IPI00119220.1	Small nuclear ribonucleoprotein Sm D2	6
IPI00364045.1	LOC680309;LOC686737 hypothetical protein LOC680309	
IPI00128904.1	Poly(rC)-binding protein 1	6
IPI00882480.1	RGD1561319_predicted similar to Poly(rC)-binding protein 1	
IPI00331092.7	40S ribosomal protein S4 X isoform	11
IPI00475474.3	40S ribosomal protein S4 X isoform	
IPI00752798.2	EG668668 predicted gene	
IPI00829470.1	EG668668- 29 kDa protein	
IPI00222546.5	mCG_130059 60S ribosomal protein L22	11
IPI00551563.3	15 kDa protein	
IPI00121443.1	Cytochrome c oxidase polypeptide vIa	4
IPI00849793.1	60S ribosomal protein L12	16
	Proliferation-associated protein 2G4	
IPI00119305.3		50
IPI00130095.1	Ras GTPase-activating protein-binding protein 1	14
IPI00154054.1	Acetyl-CoA acetyltransferase, mitochondrial precursor	3
IPI00132578.1	mRNA turnover protein 4 homolog	4
IPI00365290.3	RGD1311709_predicted hypothetical protein LOC298586	
IPI00461025.1	Muscle protein 684 (Fragment)	
IPI00649024.1	MRT4 mRNA turnover 4 homolog	
IPI00848436.1	LOC434693 hypothetical protein isoform 1	
IPI00890117.1	Cofilin-1	10
IPI00118899.1	Alpha-actinin-4	4
IPI00209082.1	Alpha-actinin-1	
IPI00213463.2	Alpha-actinin-4	
IPI00331664.3	Alpha-actinin-2	
IPI00363022.3	Predicted similar to actinin alpha 2	
IPI00380436.1	Alpha-actinin-1	
IPI00387557.3	Actn2 actinin alpha 2	
IPI00454431.1	Brain-specific alpha actinin 1 isoform	
IPI00775849.2	Alpha-actinin	

PID00133522.1 To Days embryo kidney cDNA RIKEN full-length eartched library clone:19201601.24 7 7 7 7 7 7 7 7 7	IPI00122815.3		
PP00133322.1 Protein disulfick-isomerae precuror			7
PIP0023097.6	ID100122522 1		7
PIP002383.5. 14.3-3 protein gamma Pip00239914. Hypoxtu pregulated protein 1 precursor 6 6 Pip00239914. Hypoxtu pregulated protein 1.5 1 1 1 1 1 1 1 1 1			
PIP001233424 Hypoxia up-regulated protein 1 precursor			,
IPPI0038910-6. Girbsoomal protein L5 IPPI0038910-6. IPPI0038910-6. IPPI003810-6. IPPI003810-6. IPPI0038110-7. RCDJ564051_predicted similar to 605 ribbsoomal protein L5 Rpl5 Blastocyst Color Rpl5 Blastocyst Color Rpl5 Blastocyst Color Rpl5 Blastocyst Color L5 full insert sequence IPPI00210090.3 IPPI0031090.3 Isoform CVI TO' a splicing factor 1 IPPI0031090.3 Isoform 2 IPPI0031090.3 Isoform 3 IPPI0031090.3 Isoform 3 IPPI0031090.3 Isoform 4 IPPI0031090.3 Isoform 5 IPPI0031090.3 Isoform 6 IPPI0031090.3 Isoform 6 IPPI0031090.3 Isoform 6 IPPI0031090.3 Isoform 7 IPPI0031090.3 IPPI003100.3			6
PIP00361473.2 RCDI 564051_predicted similar to 608 ribosomal protein L5 Rpl5 Blastocyst DAR RIKEN full-length enriched library clone:11C0019E04 productribosomal protein L5 full insert sequence		60S ribosomal protein L5	
PID008125.1 Rg15 Blastocyst blastocyst cDNA RIKEN full-length enriched library clone:11C0019E04 productribonousl protein Lis full insert sequence PID0015085.3 PID00566967.1 Hmpu 90 FUZ0 PID00566967.1 Sloform CW17 of spicing factor 1 Sloform 3 of spicing factor 1 Sloform 3 of spicing factor 1 Sloform 3 of spicing factor 1	IPI00308706.4	*	
PRO0210903.3 Impu SP12.0 Impu SP12.0 Impu SP12.0 Impu Osteoclas-like cell cDNA RIKEN full-length enriched library clone:1420039N16 productheroregeneous nuclear ribonucleoprotein U full insert sequence			
IPI00102003.3 Hmpu SP120	IPI00881253.1		
PI00458583.3 Himpu Osteoclas-like cell CDNA RIKEN full-length enriched library clone:1420039N16 product-thereogeneous nuclear ribonucleoprotein U full insert sequence Himpu 90 kDa protein 4 PI000387376.3 4 PI000387376.3 4 PI000387376.3 5 PI0073837376.3 5 PI00738381.1 PI005583827.2 Splicing factor 1 isoform 1 Splicing factor 1 isoform 2 Splicing factor 1 isoform 1 Splicing factor 1 isof	IDI00210000 2		10
PIP00569967.1 PIP00162344.4 Storm CW17 of splicing factor 1 Storm 3 of splicing factor 1 Spl			12
PIP00366967.1 Hrmp 90 kDa protein	If 100436363.3		
IPI001162844. Soform G. Spicing factor 1 Soform 3 of spicing factor 1 Soform 3 of spicing factor 1 Soform 3 of spicing factor 1 Spicin	IPI00566967.1		
PH000387376.3 Splicing factor 1 Splicing			4
PIP0058827.2 Splicing factor 1 is oform 2 PIP0083097-1 Splicing factor 1 is oform 1 Splicing factor 1 is oform 2 Splicing factor 1 is oform 1 Splicing factor 1 is oform 2 Splicing factor 1 is oform 2 Splicing factor 1 is oform 1 Splicing factor 1 is oform 2 Splicing factor 1 is oform 1 Splicing factor 1 is oform 2 Splicing factor 1 is oform 1 PIP0077903.1 14 kDp protein	IPI00387376.3		
PIP00381914 Splicing factor 1 isoform 1 PIP0038038191 Splicing factor 1 isoform 2 Splicing factor 1 isoform 2 Splicing factor 1 isoform 1 PIP00379903.1 PIP0037903.1 PIP0037	IPI00471888.1		
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IPI00113394.5 EG639162 similar to rps15a protein 4 LOC687680 similar to ribosomal protein s15a IPI00230660.5 40S ribosomal protein s15a 40S ribosom	IPI00652828.1 IPI00755220.1 IPI00782386.1 IPI00421428.9 IPI00457898.3 IPI00330862.5 IPI00466032.3 IPI00869767.1 IPI00778270.1 IPI00116498.1 IPI00324893.4 IPI00137229.1 IPI00454151.1	LOC684929 hypothetical protein LOC680419 16 days embryo heart cDNA RIKEN full-length enriched library clone:I920078P22 product:Ras suppressor protein 1 full insert sequence Ras suppressor protein 1 27 kDa protein Phosphoglycerate mutase 1 Phosphoglycerate mutase 1 LOC100044177;Ezr Ezrin Embryonic lethal abnormal vision Drosophila like 1 Embryonic lethal abnormal vision Drosophila like 1 68 kDa protein 14-3-3 protein zeta/delta 14-3-3 protein zeta/delta Isoform 2 of cellular nucleic acid-binding protein Isoform 3 of cellular nucleic acid-binding protein	4 6 3 10 16
IPI00230660.5 40S ribosomal protein s15a	IPI00652828.1 IPI00755220.1 IPI00782386.1 IPI00421428.9 IPI00457898.3 IPI00330862.5 IPI00466032.3 IPI00869767.1 IPI00778270.1 IPI00116498.1 IPI00324893.4 IPI00137229.1 IPI00454151.1 IPI00206624.1	LOC684929 hypothetical protein LOC680419 16 days embryo heart cDNA RIKEN full-length enriched library clone:I920078P22 product:Ras suppressor protein 1 full insert sequence Ras suppressor protein 1 27 kDa protein Phosphoglycerate mutase 1 Phosphoglycerate mutase 1 LOC100044177;Ezr Ezrin Embryonic lethal abnormal vision Drosophila like 1 Embryonic lethal abnormal vision Drosophila like 1 68 kDa protein 14-3-3 protein zeta/delta 14-3-3 protein zeta/delta Isoform 2 of cellular nucleic acid-binding protein Isoform 3 of cellular nucleic acid-binding protein 78 kDa glucose-regulated protein precursor	4 6 3 10 16
	IPI00652828.1 IPI00755220.1 IPI00782386.1 IPI00421428.9 IPI00457898.3 IPI00330862.5 IPI00466032.3 IPI00869767.1 IPI00778270.1 IPI00116498.1 IPI00324893.4 IPI00137229.1 IPI00454151.1 IPI00206624.1 IPI00319992.1	LOC684929 hypothetical protein LOC680419 16 days embryo heart cDNA RIKEN full-length enriched library clone:I920078P22 product:Ras suppressor protein 1 full insert sequence Ras suppressor protein 1 27 kDa protein Phosphoglycerate mutase 1 Phosphoglycerate mutase 1 LOC100044177;Ezr Ezrin Embryonic lethal abnormal vision Drosophila like 1 Embryonic lethal abnormal vision Drosophila like 1 68 kDa protein 14-3-3 protein zeta/delta 14-3-3 protein zeta/delta 1soform 2 of cellular nucleic acid-binding protein Isoform 3 of cellular nucleic acid-binding protein 78 kDa glucose-regulated protein precursor 78 kDa glucose-regulated protein precursor	4 6 3 10 16 8 22
IPI00231474.5 40S ribosomal protein s15a	IPI00652828.1 IPI00755220.1 IPI00782386.1 IPI00421428.9 IPI00457898.3 IPI00330862.5 IPI00466032.3 IPI00869767.1 IPI00778270.1 IPI00116498.1 IPI00324893.4 IPI00324893.4 IPI00137229.1 IPI00454151.1 IPI00206624.1 IPI00319992.1 IPI00113394.5 IPI001203481.1	LOC684929 hypothetical protein LOC680419 16 days embryo heart cDNA RIKEN full-length enriched library clone:I920078P22 product:Ras suppressor protein 1 full insert sequence Ras suppressor protein 1 27 kDa protein Phosphoglycerate mutase 1 Phosphoglycerate mutase 1 LOC100044177;Ezr Ezrin Embryonic lethal abnormal vision Drosophila like 1 Embryonic lethal abnormal vision Drosophila like 1 68 kDa protein 14-3-3 protein zeta/delta 14-3-3 protein zeta/delta 1soform 2 of cellular nucleic acid-binding protein Isoform 3 of cellular nucleic acid-binding protein 78 kDa glucose-regulated protein precursor 78 kDa glucose-regulated protein precursor 78 kDa glucose-regulated protein precursor EG639162 similar to rps15a protein LOC687680 similar to ribosomal protein s15a	4 6 3 10 16 8 22

IPI00475811.1	15 kDa protein	
IPI00569434.1	LOC680996 similar to ribosomal protein s15a	
IPI00749889.1	LOC664903 similar to hCG1994130	
IPI00766688.1	LOC691065 similar to ribosomal protein s15a	
IPI00849692.1	LOC100044556 similar to hCG1994130	
IPI00857288.1	Rps15a 8 kDa protein	
IPI00857457.1	Rps15a 12 kDa protein	
IPI00857931.1	Rps15a 8 kDa protein	
IPI00124820.2	Coronin-1c	8
IPI00388015.3	RGD1564490_predicted hypothetical protein LOC501841	O
IPI00319994.6	L-lactate dehydrogenase a chain	14
	L-lactate dehydrogenase	14
IPI00751369.1 IPI00117352.1	Tubulin beta-5 chain	16
		16
IPI00197579.2	Isoform 1 of tubulin beta-5 chain	
IPI00127841.3	ADP/ATP translocase 2	4
IPI00200466.3	ADP/ATP translocase 2	
IPI00366141.3	35 kDa protein	
IPI00462250.2	EG433326 similar to adenine nucleotide translocase	
IPI00558425.2	Slc25a5 27 kDa protein	
IPI00561209.2	Slc25a5 22 kDa protein	
IPI00564294.2	34 kDa protein	
IPI00565507.2	32 kDa protein	
IPI00568360.2	RGD1564131_predicted similar to solute carrier family 25	
IPI00569825.1	member 5	
IPI00569831.2	35 kDa protein	
IPI00658303.1	Slc25a5 27 kDa protein	
IPI00776957.1	LOC630624 similar to adenine nucleotide translocase isoform 1 - 33 kDa protein	
IPI00776937.1 IPI00122421.5	EG621100 60S ribosomal protein L27	3
	60S ribosomal protein L27	3
IPI00231360.9		4
IPI00132653.1	Succinyl-coA:3-ketoacid-coenzyme a transferase 1 mitochondrial precursor	4
IPI00367445.3	LOC678860 similar to 3-oxoacid coA transferase 1 isoform 1	
IPI00766788.1	LOC678860 similar to 3-oxoacid coA transferase 1 isoform 2	
IPI00768711.1	Oxct1 similar to 3-oxoacid coA transferase 1	
IPI00858156.1	Oxct1 CRL-1722 L5178Y-R cDNA RIKEN full-length enriched library clone:I730058H05	
	product:3-oxoacid coA transferase full insert sequence	
IPI00117168.3	Protein dpy-30 homolog	8
IPI00462291.5	High mobility group protein B2	30
IPI00196353.1	RGD1310931_predicted hypothetical protein LOC290642	2
IPI00458723.2	Coiled-coil domain-containing protein 124	
IPI00119227.1	Ube2i;LOC100044900 SUMO-conjugating enzyme UBC9	5
IPI00199424.1	SUMO-conjugating enzyme UBC9	5
IPI00475301.2	LOC100045388 similar to chain A crystal structure of human Rangap1-Ubc9	
IPI00473301.2 IPI00850259.1	LOC100043388 similar to chain A crystal structure of human Rangap1-Ubc9	
	Eukaryotic initiation factor 4a-I	16
IPI00118676.3		16
IPI00369618.1	Eukaryotic translation initiation factor 4a1	
IPI00561527.2	35 kDa protein	5
IPI00781417.1	35 kDa protein	
IPI00136929.1	Gamma actin-like protein	22
IPI00354819.5	Isoform smooth muscle of myosin light polypeptide 6	5
IPI00365944.5	Myl6_predicted myosin light polypeptide 6	
IPI00392935.2	17 kDa protein	
IPI00409817.2	Isoform non-muscle of myosin light polypeptide 6	
IPI00462232.3	EG433297 similar to MYL6 protein	
IPI00474757.4	EG546101 similar to 17kD myosin light chain	
IPI00817070.1	LOC684520;LOC685867 hypothetical protein LOC685867	
IPI00870820.1	LOC685883 hypothetical protein LOC685883	
IPI00870820.1	Isoform 1 of THO complex subunit 4	20
		۷0
IPI00763263.2	LOC688305 similar to THO complex subunit 4 isoform 2	
IPI00768839.2	LOC688305 similar to THO complex subunit 4 isoform 1	
IPI00366785.4	Tyrosyl-tRNA synthetase, cytoplasmic	4
IPI00382191.1	6-Phosphogluconate dehydrogenase decarboxylating	4
IPI00466919.7	6-Phosphogluconate dehydrogenase decarboxylating	
IPI00569969.2	Cort 53 kDa protein	
IPI00882447.1	Cort 117 kDa protein	
IPI00321978.3	Ran-specific GTPase-activating protein (Fragment)	6
IPI00119224.1	Small nuclear ribonucleoprotein Sm D3	7
IPI00766278.1	LOC687711 similar to small nuclear ribonucleoprotein D3	,
IPI00700278.1	60S ribosomal protein L35	9
		9
IPI00263879.4	LOC100038991 60S ribosomal protein L35	
IPI00322749.3	Small nuclear ribonucleoprotein Sm D1	4
IPI00363471.1	Snrpd1_predicted small nuclear ribonucleoprotein D1	
IPI00569308.2	LOC684715 similar to Small nuclear ribonucleoprotein Sm D1	
IPI00108206.1	Gag-Pol polyprotein	2
TDT001101101	40S ribosomal protein S10	11
IPI00112448.1		

IPI00191142.1	40S ribosomal protein S10	
IPI00361431.1	RGD1564698_predicted similar to ribosomal protein S10	
IPI00229517.5	Galectin-1	11
IPI00116668.2	Integrin-linked protein kinase	2
IPI00194728.1	Integrin-linked protein kinase	
IPI00857352.1	Ilk 20 kDa protein SH3 domain-binding glutamic acid-rich-like protein 3	2
IPI00127358.1		3
IPI00132456.1	2700060E02Rik UPF0568 protein C14orf166 homolog	6
IPI00421395.1	RGD1304704 LRRGT00192	
IPI00766649.1 IPI00420363.2	RGD1304704 28 kDa protein Probable ATP-dependent RNA helicase DDX5	5
IPI00420303.2 IPI00464718.1	Ddx5 gene	3
IPI00207050.5	Rcn3_predicted reticulocalbin 3 EF-hand calcium binding domain	2
IPI00207030.3 IPI00221798.1	Reticulocalbin-3 precursor	2
IPI00221798.1 IPI00782427.1	LOC361571 38 kDa protein	
IPI00131406.1	Proteasome subunit alpha type-7	4
IPI00231539.1	Isoform RC6-IS of proteasome subunit alpha type-7	-
IPI00198481.1	Isoform ARPP-19 of cAMP-regulated phosphoprotein 19	5
IPI00227850.5	Isoform ARPP-19 of cAMP-regulated phosphoprotein 19	3
IPI00752633.1	Isoform ARPP-16 of cAMP-regulated phosphoprotein 19	
IPI00758445.2	Isoform ARPP-16 of cAMP-regulated phosphoprotein 19	
IPI00123639.1	Calreticulin precursor	17
IPI00191895.4	MGC72932 NHP2-like protein 1	12
IPI00621272.3	Nhp211;EG434401 NHP2-like protein 1	12
IPI00829481.1	14 kDa protein	
IPI00110827.1	Actin alpha skeletal muscle	14
IPI00114593.1	Actin alpha sacictar muscle 1	11
IPI00189813.1	Actin alpha skeletal muscle	
IPI00194087.3	Actin alpha cardiac muscle 1	
IPI00480406.1	17 days embryo head cDNA RIKEN full-length enriched library clone:3200002L22	
	product:actin alpha cardiac full insert sequence	
IPI00653007.1	17 days embryo heart cDNA RIKEN full-length enriched library clone:I920058J24	
	product:actin alpha cardiac full insert sequence	
IPI00654242.1	17 days embryo heart cDNA RIKEN full-length enriched library clone:I920072D16	
	product:actin alpha cardiac full insert sequence	
IPI00139795.2	60S acidic ribosomal protein P2	17
IPI00125901.5	Rps13	7
IPI00366014.3	LOC684988 40S ribosomal protein S13	
IPI00751092.1	LOC668239 similar to Rps13 protein	
IPI00765221.1	LOC683961 similar to ribosomal protein S13	
IPI00364061.4	Hnrpl protein	15
IPI00620362.4	Hnrpl protein	
IPI00653643.3	Lung RCB-0558 LLC cDNA RIKEN full-length enriched library clone:G730022P12	
	product:heterogeneous nuclear ribonucleoprotein L full insert sequence	
IPI00765134.1	Similar to heterogeneous nuclear ribonucleoprotein L	
IPI00116302.3	Eukaryotic translation initiation factor 2 subunit 2	9
IPI00117063.1	RNA-binding protein FUS	11
IPI00362587.3	Fusion derived from t(12;16) malignant liposarcoma	
IPI00830623.1	Fusion derived from t(12;16) malignant liposarcoma	
IPI00230264.5	Histone H2A.x	5
IPI00369397.5	RGD1566119_predicted hypothetical protein LOC500987	
IPI00229685.2	Isoform 1 of protein wibg homolog	6
IPI00403914.2	Isoform 2 of protein wibg homolog	21
IPI00113141.1	Citrate synthase, mitochondrial precursor	31
IPI00129430.1	Splicing factor proline- and glutamine-rich	10
IPI00627068.1	Splicing factor proline/glutamine rich	
IPI00767277.1	Similar to NonO/p54nrb homolog	
IPI00849080.1	LOC100045887 similar to PTB-associated splicing factor Nucleolin	17
IPI00317794.5	Spliceosome RNA helicase Bat1	17 3
IPI00215291.3 IPI00409462.2	Spliceosome RNA helicase Bat1 Spliceosome RNA helicase Bat1	3
	P21-activated protein kinase-interacting protein 1	7
IPI00120790.2 IPI00756424.3	Eukaryotic translation initiation factor 5B	
		18
IPI00222496.3	Pdia6 CRL-1722 L5178Y-R cDNA, RIKEN full-length enriched library, clone:I730077L17	6
IDI00125700 1	product:thioredoxin domain containing 7, full insert sequence	2
IPI00135700.1	2410015N17Rik XTP3-transactivated gene a protein homolog	2
IPI00205496.1	Rs21c6 XTP3-transactivated gene a protein homolog	9
IPI00124742.3	Isoform Long of Eukaryotic translation initiation factor 4H	9
IPI00222560.7	Isoform Short of Eukaryotic translation initiation factor 4H	
IPI00370315.1	Eukaryotic translation initiation factor 4H	
IPI00779902.1	25 kDa protein 11 kDa protein	11
IPI00231340.8 IPI00329998.3	11 kDa protein 11 kDa protein	11
IPI00329998.3 IPI00364897.3	11 kDa protein 11 kDa protein	
11 100304071.3	11 KDu proteint	

IPI00368659.3		
	11 kDa protein	
IPI00407339.7	Hist1h4b	
IPI00559188.1	11 kDa protein	
IPI00561052.3	Hist1h4m_predicted	
IPI00561706.1	11 kDa protein	
IPI00621374.1	11 kDa protein	
IPI00621789.1	11 kDa protein	
IPI00623776.3	LOC674678 similar to histone H4	
IPI00624840.2	12 kDa protein	
IPI00624933.1	12 kDa protein	
IPI00764726.1	LOC679840 similar to germinal histone H4 gene	
IPI00778180.1	11 kDa protein	
IPI00844736.1	12 kDa protein	
IPI00874920.1	11 kDa protein	
IPI00876005.1	11 kDa protein	
IPI00130883.1	Putative RNA-binding protein 3	8
IPI00367437.4	Similar to RNA binding motif protein 3	
IPI00378187.2	7 days embryo whole body cDNA RIKEN full-length enriched library clone:C430044A22	
	product:RNA binding motif protein 3 full insert sequence	
IPI00231955.6	Calmodulin	16
IPI00467841.6	Calm2 12 days pregnant adult female placenta cDNA RIKEN full-length enriched library	
11 100 1070 1110	clone:I530005B05 product:calmodulin 1 full insert sequence	
IPI00761696.2	Calmodulin	
IPI00123007.1	Rpl31;EG667682;LOC100042740;LOC100047426 60S ribosomal protein L31	6
IPI00123007.1 IPI00207486.1	14 kDa protein	U
IPI00207486.1 IPI00231042.6	60S ribosomal protein L31	
IPI00231042.6 IPI00361677.1	RGD1564839_predicted similar to ribosomal protein L31	
	Similar to ribosomal protein L31	
IPI00563665.2	A.	
IPI00677102.1	LOC638399 hypothetical protein isoform 1	
IPI00768353.1	LOC688416 similar to ribosomal protein L31	1.0
IPI00454008.1	Serine hydroxymethyltransferase	16
IPI00212969.3	Predicted heterogeneous nuclear ribonucleoprotein B0b	12
IPI00405058.6	Isoform 3 of heterogeneous nuclear ribonucleoproteins A2/B1	
IPI00622847.2	Isoform 2 of heterogeneous nuclear ribonucleoproteins A2/B1	
IPI00828488.1	Isoform 1 of heterogeneous nuclear ribonucleoproteins A2/B1	
IPI00853914.1	LOC100045191 similar to heterogeneous nuclear ribonucleoprotein A2/B1	
IPI00867934.1	Hnrpa2b1_predicted heterogeneous nuclear ribonucleoprotein B1	
IPI00890022.1	Hnrnpa2b1 43 kDa protein	
IPI00117288.3	Heterogeneous nuclear ribonucleoprotein A/B	20
IPI00208193.1	Nucleic acid binding factor pRM10	
IPI00212723.2	Hnrpab heterogeneous nuclear ribonucleoprotein A/B	
IPI00212724.1	Type A/B hnRNP p40	
IPI00277066.4	Hnrpab heterogeneous nuclear ribonucleoprotein A/B isoform 1	
IPI00648228.3	Hnrpab protein	
	34 kDa protein	
IPI00463344.5		7
		7
IPI00463344.5 IPI00471678.1	DnaJ homolog subfamily c member 8	7
IPI00463344.5 IPI00471678.1 IPI00648539.2	DnaJ homolog subfamily c member 8 DnaJ (Hsp40) homolog subfamily c member 8	7
IPI00463344.5 IPI00471678.1 IPI00648539.2 IPI00757611.1	DnaJ homolog subfamily c member 8	
IPI00463344.5 IPI00471678.1 IPI00648539.2 IPI00757611.1 IPI00369635.3	DnaJ homolog subfamily c member 8 DnaJ (Hsp40) homolog subfamily c member 8 DnaJ homolog subfamily c member 8 Radixin	7
IPI00463344.5 IPI00471678.1 IPI00648539.2 IPI00757611.1 IPI00369635.3 IPI00653921.2	DnaJ homolog subfamily c member 8 DnaJ (Hsp40) homolog subfamily c member 8 DnaJ homolog subfamily c member 8 Radixin Radixin isoform a	11
IPI00463344.5 IPI00471678.1 IPI00648539.2 IPI00757611.1 IPI00369635.3 IPI00653921.2 IPI00214889.1	DnaJ homolog subfamily c member 8 DnaJ (Hsp40) homolog subfamily c member 8 DnaJ homolog subfamily c member 8 Radixin Radixin isoform a Proteasome subunit beta type-3	
IPI00463344.5 IPI00471678.1 IPI00648539.2 IPI00757611.1 IPI00369635.3 IPI00653921.2 IPI00214889.1 IPI00314467.3	DnaJ homolog subfamily c member 8 DnaJ (Hsp40) homolog subfamily c member 8 DnaJ homolog subfamily c member 8 Radixin Radixin isoform a Proteasome subunit beta type-3 Proteasome subunit beta type-3	11 3
IPI00463344.5 IPI00471678.1 IPI00648539.2 IPI00757611.1 IPI00369635.3 IPI00653921.2 IPI00214889.1 IPI00314467.3 IPI00131695.3	DnaJ homolog subfamily c member 8 DnaJ (Hsp40) homolog subfamily c member 8 DnaJ homolog subfamily c member 8 Radixin Radixin isoform a Proteasome subunit beta type-3 Proteasome subunit precursor	11 3 5
IPI00463344.5 IPI00471678.1 IPI00648539.2 IPI00757611.1 IPI00369635.3 IPI00653921.2 IPI00214889.1 IPI00314467.3 IPI00131695.3 IPI00204316.1	DnaJ homolog subfamily c member 8 DnaJ (Hsp40) homolog subfamily c member 8 DnaJ homolog subfamily c member 8 Radixin Radixin isoform a Proteasome subunit beta type-3 Proteasome subunit precursor ATP synthase-coupling factor 6, mitochondrial precursor	11 3 5 2
IPI00463344.5 IPI00471678.1 IPI00648539.2 IPI00757611.1 IPI00369635.3 IPI00653921.2 IPI00214889.1 IPI00314467.3 IPI00131695.3 IPI00204316.1 IPI00475835.3	DnaJ homolog subfamily c member 8 DnaJ (Hsp40) homolog subfamily c member 8 DnaJ homolog subfamily c member 8 Radixin Radixin isoform a Proteasome subunit beta type-3 Proteasome subunit beta type-3 Serum albumin precursor ATP synthase-coupling factor 6, mitochondrial precursor D-3-phosphoglycerate dehydrogenase	11 3 5 2 3
IPI00463344.5 IPI00471678.1 IPI00648539.2 IPI00757611.1 IPI00369635.3 IPI00653921.2 IPI00214889.1 IPI00314467.3 IPI00131695.3 IPI00204316.1 IPI00475835.3 IPI00274739.1	DnaJ homolog subfamily c member 8 DnaJ (Hsp40) homolog subfamily c member 8 DnaJ homolog subfamily c member 8 Radixin Radixin isoform a Proteasome subunit beta type-3 Proteasome subunit beta type-3 Serum albumin precursor ATP synthase-coupling factor 6, mitochondrial precursor D-3-phosphoglycerate dehydrogenase Isoform 2 of DNA-binding protein A	11 3 5 2
IPI00463344.5 IPI00471678.1 IPI00648539.2 IPI00757611.1 IPI00369635.3 IPI00653921.2 IPI00214889.1 IPI00314467.3 IPI00131695.3 IPI00204316.1 IPI00475835.3 IPI00274739.1 IPI00330591.1	DnaJ homolog subfamily c member 8 DnaJ (Hsp40) homolog subfamily c member 8 DnaJ homolog subfamily c member 8 Radixin Radixin isoform a Proteasome subunit beta type-3 Proteasome subunit beta type-3 Serum albumin precursor ATP synthase-coupling factor 6, mitochondrial precursor D-3-phosphoglycerate dehydrogenase Isoform 2 of DNA-binding protein A Isoform 1 of DNA-binding protein A	11 3 5 2 3 4
IPI00463344.5 IPI00471678.1 IPI00648539.2 IPI00757611.1 IPI00369635.3 IPI00653921.2 IPI00214889.1 IPI00314467.3 IPI00131695.3 IPI00204316.1 IPI00475835.3 IPI00274739.1 IPI00330591.1 IPI00208277.1	DnaJ homolog subfamily c member 8 DnaJ (Hsp40) homolog subfamily c member 8 DnaJ homolog subfamily c member 8 Radixin Radixin isoform a Proteasome subunit beta type-3 Proteasome subunit beta type-3 Serum albumin precursor ATP synthase-coupling factor 6, mitochondrial precursor D-3-phosphoglycerate dehydrogenase Isoform 2 of DNA-binding protein A Isoform 1 of DNA-binding protein A	11 3 5 2 3
IPI00463344.5 IPI00471678.1 IPI00648539.2 IPI00757611.1 IPI00369635.3 IPI00653921.2 IPI00214889.1 IPI00314467.3 IPI00131695.3 IPI00204316.1 IPI00475835.3 IPI00274739.1 IPI00330591.1 IPI00305277.1 IPI00352475.3	DnaJ homolog subfamily c member 8 DnaJ (Hsp40) homolog subfamily c member 8 DnaJ homolog subfamily c member 8 Radixin Radixin isoform a Proteasome subunit beta type-3 Proteasome subunit beta type-3 Serum albumin precursor ATP synthase-coupling factor 6, mitochondrial precursor D-3-phosphoglycerate dehydrogenase Isoform 2 of DNA-binding protein A Isoform 1 of DNA-binding protein A 28 kDa heat- and acid-stable phosphoprotein 28 kDa heat- and acid-stable phosphoprotein	11 3 5 2 3 4
IPI00463344.5 IPI00471678.1 IPI00648539.2 IPI00757611.1 IPI00369635.3 IPI00653921.2 IPI00214889.1 IPI00314467.3 IPI00131695.3 IPI00204316.1 IPI00475835.3 IPI00274739.1 IPI0030591.1 IPI003052475.3 IPI00109696.1	DnaJ homolog subfamily c member 8 DnaJ (Hsp40) homolog subfamily c member 8 DnaJ homolog subfamily c member 8 Radixin Radixin isoform a Proteasome subunit beta type-3 Proteasome subunit beta type-3 Serum albumin precursor ATP synthase-coupling factor 6, mitochondrial precursor D-3-phosphoglycerate dehydrogenase Isoform 2 of DNA-binding protein A Isoform 1 of DNA-binding protein A 28 kDa heat- and acid-stable phosphoprotein 28 kDa heat- and acid-stable phosphoprotein EG628161 peptidyl-prolyl cis-trans isomerase NIMA-interacting 4	11 3 5 2 3 4
IPI00463344.5 IPI00471678.1 IPI00648539.2 IPI00757611.1 IPI00369635.3 IPI00653921.2 IPI00214889.1 IPI00314467.3 IPI00314467.3 IPI00204316.1 IPI00475835.3 IPI00274739.1 IPI0030591.1 IPI003052475.3 IPI00109696.1 IPI00765109.1	DnaJ homolog subfamily c member 8 DnaJ (Hsp40) homolog subfamily c member 8 DnaJ homolog subfamily c member 8 Radixin Radixin isoform a Proteasome subunit beta type-3 Proteasome subunit beta type-3 Serum albumin precursor ATP synthase-coupling factor 6, mitochondrial precursor D-3-phosphoglycerate dehydrogenase Isoform 2 of DNA-binding protein A Isoform 1 of DNA-binding protein A 28 kDa heat- and acid-stable phosphoprotein 28 kDa heat- and acid-stable phosphoprotein EG628161 peptidyl-prolyl cis-trans isomerase NIMA-interacting 4 LOC684441 similar to peptidyl-prolyl cis-trans isomerase NIMA-interacting 4	11 3 5 2 3 4 15
IPI00463344.5 IPI00471678.1 IPI00648539.2 IPI0075611.1 IPI00369635.3 IPI00653921.2 IPI00214889.1 IPI00314467.3 IPI00314467.3 IPI00204316.1 IPI00475835.3 IPI00274739.1 IPI0030591.1 IPI0030591.1 IPI00352475.3 IPI00109696.1 IPI00765109.1 IPI00224152.5	DnaJ homolog subfamily c member 8 DnaJ (Hsp40) homolog subfamily c member 8 DnaJ homolog subfamily c member 8 Radixin Radixin isoform a Proteasome subunit beta type-3 Proteasome subunit beta type-3 Serum albumin precursor ATP synthase-coupling factor 6, mitochondrial precursor D-3-phosphoglycerate dehydrogenase Isoform 2 of DNA-binding protein A Isoform 1 of DNA-binding protein A 28 kDa heat- and acid-stable phosphoprotein 28 kDa heat- and acid-stable phosphoprotein EG628161 peptidyl-prolyl cis-trans isomerase NIMA-interacting 4 LOC684441 similar to peptidyl-prolyl cis-trans isomerase NIMA-interacting 4 DNA-(apurinic or apyrimidinic site) lyase	11 3 5 2 3 4 15 6
IPI00463344.5 IPI00471678.1 IPI00648539.2 IPI00757611.1 IPI00369635.3 IPI00653921.2 IPI00214889.1 IPI00314467.3 IPI00314467.3 IPI00204316.1 IPI00475835.3 IPI00274739.1 IPI0030591.1 IPI003052475.3 IPI00109696.1 IPI00765109.1	DnaJ homolog subfamily c member 8 DnaJ (Hsp40) homolog subfamily c member 8 DnaJ homolog subfamily c member 8 Radixin Radixin isoform a Proteasome subunit beta type-3 Proteasome subunit beta type-3 Serum albumin precursor ATP synthase-coupling factor 6, mitochondrial precursor D-3-phosphoglycerate dehydrogenase Isoform 2 of DNA-binding protein A Isoform 1 of DNA-binding protein A 28 kDa heat- and acid-stable phosphoprotein 28 kDa heat- and acid-stable phosphoprotein EG628161 peptidyl-prolyl cis-trans isomerase NIMA-interacting 4 LOC684441 similar to peptidyl-prolyl cis-trans isomerase NIMA-interacting 4 DNA-(apurinic or apyrimidinic site) lyase Peptidylprolyl isomerase B	11 3 5 2 3 4 15
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IPI00463344.5 IPI00471678.1 IPI00648539.2 IPI00757611.1 IPI00369635.3 IPI00653921.2 IPI00214889.1 IPI00314467.3 IPI00314467.3 IPI00204316.1 IPI00475835.3 IPI00274739.1 IPI00330591.1 IPI00330591.1 IPI00352475.3 IPI00109696.1 IPI00765109.1 IPI00224152.5 IPI00135686.2	DnaJ homolog subfamily c member 8 DnaJ (Hsp40) homolog subfamily c member 8 DnaJ homolog subfamily c member 8 Radixin Radixin isoform a Proteasome subunit beta type-3 Proteasome subunit beta type-3 Serum albumin precursor ATP synthase-coupling factor 6, mitochondrial precursor D-3-phosphoglycerate dehydrogenase Isoform 2 of DNA-binding protein A Isoform 1 of DNA-binding protein A 28 kDa heat- and acid-stable phosphoprotein 28 kDa heat- and acid-stable phosphoprotein EG628161 peptidyl-prolyl cis-trans isomerase NIMA-interacting 4 LOC684441 similar to peptidyl-prolyl cis-trans isomerase NIMA-interacting 4 DNA-(apurinic or apyrimidinic site) lyase Peptidylprolyl isomerase B	11 3 5 2 3 4 15 6 23 32
IPI00463344.5 IPI00471678.1 IPI00648539.2 IPI00757611.1 IPI00369635.3 IPI00653921.2 IPI00214889.1 IPI00314467.3 IPI00314467.3 IPI00204316.1 IPI00475835.3 IPI00274739.1 IPI00330591.1 IPI00330591.1 IPI00208277.1 IPI00352475.3 IPI00109696.1 IPI00765109.1 IPI00724152.5 IPI00135686.2 IPI00471325.2 IPI00870805.1	DnaJ homolog subfamily c member 8 DnaJ (Hsp40) homolog subfamily c member 8 DnaJ homolog subfamily c member 8 Radixin Radixin isoform a Proteasome subunit beta type-3 Proteasome subunit beta type-3 Serum albumin precursor ATP synthase-coupling factor 6, mitochondrial precursor D-3-phosphoglycerate dehydrogenase Isoform 2 of DNA-binding protein A Isoform 1 of DNA-binding protein A 28 kDa heat- and acid-stable phosphoprotein 28 kDa heat- and acid-stable phosphoprotein EG628161 peptidyl-prolyl cis-trans isomerase NIMA-interacting 4 LOC684441 similar to peptidyl-prolyl cis-trans isomerase NIMA-interacting 4 DNA-(apurinic or apyrimidinic site) lyase Peptidylprolyl isomerase B Endothelial differentiation-related factor 1	11 3 5 2 3 4 15 6 23 32
IPI00463344.5 IPI00471678.1 IPI00648539.2 IPI00757611.1 IPI00369635.3 IPI00653921.2 IPI00214889.1 IPI00314467.3 IPI00131695.3 IPI00204316.1 IPI00204316.1 IPI00274739.1 IPI003052475.3 IPI0020696.1 IPI00765109.1 IPI002224152.5 IPI0013566.2 IPI00471325.2 IPI00870805.1 IPI00222509.1	DnaJ homolog subfamily c member 8 DnaJ (Hsp40) homolog subfamily c member 8 DnaJ homolog subfamily c member 8 Radixin Radixin isoform a Proteasome subunit beta type-3 Proteasome subunit beta type-3 Serum albumin precursor ATP synthase-coupling factor 6, mitochondrial precursor D-3-phosphoglycerate dehydrogenase Isoform 2 of DNA-binding protein A Isoform 1 of DNA-binding protein A 28 kDa heat- and acid-stable phosphoprotein 28 kDa heat- and acid-stable phosphoprotein EG628161 peptidyl-prolyl cis-trans isomerase NIMA-interacting 4 LOC684441 similar to peptidyl-prolyl cis-trans isomerase NIMA-interacting 4 DNA-(apurinic or apyrimidinic site) lyase Peptidylprolyl isomerase B Endothelial differentiation-related factor 1 Edf1_predicted endothelial differentiation-related factor 1 Protein RCC2	11 3 5 2 3 4 15 6 23 32 4 24
IPI00463344.5 IPI00471678.1 IPI00648539.2 IPI00757611.1 IPI00369635.3 IPI00653921.2 IPI00214889.1 IPI00314467.3 IPI00131695.3 IPI00204316.1 IPI00475835.3 IPI00274739.1 IPI003052475.3 IPI00208277.1 IPI00352475.3 IPI00109696.1 IPI00765109.1 IPI00224152.5 IPI0013568.2 IPI00471325.2 IPI00870805.1 IPI00222509.1 IPI00222509.1	DnaJ homolog subfamily c member 8 DnaJ (Hsp40) homolog subfamily c member 8 DnaJ homolog subfamily c member 8 Radixin Radixin isoform a Proteasome subunit beta type-3 Proteasome subunit beta type-3 Serum albumin precursor ATP synthase-coupling factor 6, mitochondrial precursor D-3-phosphoglycerate dehydrogenase Isoform 2 of DNA-binding protein A Isoform 1 of DNA-binding protein B Isoform 2 of DNA-binding protein B Isoform 2 of DNA-binding protein B Isoform 3 of DNA-binding protein B Isoform 3 of DNA-binding protein B Isoform 3 of DNA-binding protein B Isoform 4 of DNA-binding protein B Isoform 3 of DNA-binding protein B Isoform 4 of DNA-binding protein B Isoform 4 of DNA-binding protein B Isoform 3 of DNA-binding protein B Isoform 4 of DNA-binding protein B Isoform 5 of DNA-binding protein B Isoform 6 of DNA-binding protein B Isoform 6 of DNA-binding protein B Isoform 6 of DNA-binding protein B Isoform 7 of DNA-binding protein B Isoform 6 of DNA-binding protein B Isoform 7 of DNA-b	11 3 5 2 3 4 15 6 23 32 4
IPI00463344.5 IPI00471678.1 IPI00648539.2 IPI00757611.1 IPI00369635.3 IPI00653921.2 IPI00214889.1 IPI00314467.3 IPI00314467.3 IPI00204316.1 IPI00475835.3 IPI00274739.1 IPI003052475.3 IPI00208277.1 IPI00352475.3 IPI00109696.1 IPI00765109.1 IPI00224152.5 IPI00135686.2 IPI00471325.2 IPI00870805.1 IPI00222509.1 IPI00132799.4 IPI00371043.2	DnaJ homolog subfamily c member 8 DnaJ (Hsp40) homolog subfamily c member 8 DnaJ homolog subfamily c member 8 Radixin Radixin isoform a Proteasome subunit beta type-3 Proteasome subunit beta type-3 Serum albumin precursor ATP synthase-coupling factor 6, mitochondrial precursor D-3-phosphoglycerate dehydrogenase Isoform 2 of DNA-binding protein A Isoform 1 of DNA-binding protein A 28 kDa heat- and acid-stable phosphoprotein 28 kDa heat- and acid-stable phosphoprotein EG628161 peptidyl-prolyl cis-trans isomerase NIMA-interacting 4 LOC684441 similar to peptidyl-prolyl cis-trans isomerase NIMA-interacting 4 DNA-(apurinic or apyrimidinic site) lyase Peptidylprolyl isomerase B Endothelial differentiation-related factor 1 Edf1_predicted endothelial differentiation-related factor 1 Protein RCC2 Complement component 1, q subcomponent binding protein Predicted Protein ARMET precursor	11 3 5 2 3 4 15 6 23 32 4 24 15
IPI00463344.5 IPI00471678.1 IPI00648539.2 IPI00757611.1 IPI00369635.3 IPI00653921.2 IPI00214889.1 IPI00314467.3 IPI00314467.3 IPI00314467.3 IPI0031695.3 IPI00204316.1 IPI00475835.3 IPI00274739.1 IPI003591.1 IPI00352475.3 IPI00109696.1 IPI00765109.1 IPI00224152.5 IPI00135686.2 IPI00471325.2 IPI008770805.1 IPI00222509.1 IPI00132799.4 IPI00371043.2 IPI00404019.1	DnaJ homolog subfamily c member 8 DnaJ (Hsp40) homolog subfamily c member 8 DnaJ homolog subfamily c member 8 Radixin Radixin isoform a Proteasome subunit beta type-3 Proteasome subunit beta type-3 Serum albumin precursor ATP synthase-coupling factor 6, mitochondrial precursor D-3-phosphoglycerate dehydrogenase Isoform 2 of DNA-binding protein A Isoform 1 of DNA-binding protein A 28 kDa heat- and acid-stable phosphoprotein 28 kDa heat- and acid-stable phosphoprotein EG628161 peptidyl-prolyl cis-trans isomerase NIMA-interacting 4 LOC684441 similar to peptidyl-prolyl cis-trans isomerase NIMA-interacting 4 DNA-(apurinic or apyrimidinic site) lyase Peptidylprolyl isomerase B Endothelial differentiation-related factor 1 Edf1_predicted endothelial differentiation-related factor 1 Protein RCC2 Complement component 1, q subcomponent binding protein Predicted Protein ARMET precursor Armet protein	11 3 5 2 3 4 15 6 23 32 4 24 15
IPI00463344.5 IPI00471678.1 IPI00648539.2 IPI00757611.1 IPI00369635.3 IPI00653921.2 IPI00214889.1 IPI00314467.3 IPI00314467.3 IPI00204316.1 IPI00475835.3 IPI00274739.1 IPI003052475.3 IPI00208277.1 IPI00352475.3 IPI00109696.1 IPI00765109.1 IPI00224152.5 IPI00135686.2 IPI00471325.2 IPI00870805.1 IPI00222509.1 IPI00132799.4 IPI00371043.2	DnaJ homolog subfamily c member 8 DnaJ (Hsp40) homolog subfamily c member 8 DnaJ homolog subfamily c member 8 Radixin Radixin isoform a Proteasome subunit beta type-3 Proteasome subunit beta type-3 Serum albumin precursor ATP synthase-coupling factor 6, mitochondrial precursor D-3-phosphoglycerate dehydrogenase Isoform 2 of DNA-binding protein A Isoform 1 of DNA-binding protein A 28 kDa heat- and acid-stable phosphoprotein 28 kDa heat- and acid-stable phosphoprotein EG628161 peptidyl-prolyl cis-trans isomerase NIMA-interacting 4 LOC684441 similar to peptidyl-prolyl cis-trans isomerase NIMA-interacting 4 DNA-(apurinic or apyrimidinic site) lyase Peptidylprolyl isomerase B Endothelial differentiation-related factor 1 Edf1_predicted endothelial differentiation-related factor 1 Protein RCC2 Complement component 1, q subcomponent binding protein Predicted Protein ARMET precursor Armet protein Armet RCB-0035 WEHI-3 cDNA RIKEN full-length enriched library clone:G430091B19	11 3 5 2 3 4 15 6 23 32 4 24 15
IPI00463344.5 IPI00471678.1 IPI00648539.2 IPI00757611.1 IPI00369635.3 IPI00653921.2 IPI00214889.1 IPI00314467.3 IPI00314467.3 IPI00131695.3 IPI00204316.1 IPI00475835.3 IPI00274739.1 IPI00330591.1 IPI00330591.1 IPI00352475.3 IPI00109696.1 IPI00765109.1 IPI00224152.5 IPI00135686.2 IPI00471325.2 IPI00870805.1 IPI00222509.1 IPI00132799.4 IPI00371043.2 IPI00404019.1 IPI00775791.1	DnaJ homolog subfamily c member 8 DnaJ (Hsp40) homolog subfamily c member 8 DnaJ homolog subfamily c member 8 Radixin Radixin isoform a Proteasome subunit beta type-3 Proteasome subunit beta type-3 Serum albumin precursor ATP synthase-coupling factor 6, mitochondrial precursor D-3-phosphoglycerate dehydrogenase Isoform 2 of DNA-binding protein A Isoform 1 of DNA-binding protein A 28 kDa heat- and acid-stable phosphoprotein 28 kDa heat- and acid-stable phosphoprotein EG628161 peptidyl-prolyl cis-trans isomerase NIMA-interacting 4 LOC684441 similar to peptidyl-prolyl cis-trans isomerase NIMA-interacting 4 DNA-(apurinic or apyrimidinic site) lyase Peptidylprolyl isomerase B Endothelial differentiation-related factor 1 Edf1_predicted endothelial differentiation-related factor 1 Protein RCC2 Complement component 1, q subcomponent binding protein Predicted Protein ARMET precursor Armet protein Armet RCB-0035 WEHI-3 cDNA RIKEN full-length enriched library clone:G430091B19 product:arginine-rich mutated in early stage tumors full insert sequence	11 3 5 2 3 4 15 6 23 32 4 24 15 8
IPI00463344.5 IPI00471678.1 IPI00648539.2 IPI00757611.1 IPI00369635.3 IPI00653921.2 IPI00214889.1 IPI00314467.3 IPI00314467.3 IPI00204316.1 IPI00475835.3 IPI00274739.1 IPI00330591.1 IPI00330591.1 IPI00352475.3 IPI00109696.1 IPI00765109.1 IPI00224152.5 IPI00135686.2 IPI00471325.2 IPI00870805.1 IPI00222509.1 IPI00371043.2 IPI00404019.1 IPI00775791.1	DnaJ homolog subfamily c member 8 DnaJ (Hsp40) homolog subfamily c member 8 DnaJ homolog subfamily c member 8 Radixin Radixin isoform a Proteasome subunit beta type-3 Proteasome subunit beta type-3 Serum albumin precursor ATP synthase-coupling factor 6, mitochondrial precursor D-3-phosphoglycerate dehydrogenase Isoform 2 of DNA-binding protein A Isoform 1 of DNA-binding protein A 28 kDa heat- and acid-stable phosphoprotein 28 kDa heat- and acid-stable phosphoprotein EG628161 peptidyl-prolyl cis-trans isomerase NIMA-interacting 4 LOC684441 similar to peptidyl-prolyl cis-trans isomerase NIMA-interacting 4 DNA-(apurinic or apyrimidinic site) lyase Peptidylprolyl isomerase B Endothelial differentiation-related factor 1 Edf1_predicted endothelial differentiation-related factor 1 Protein RCC2 Complement component 1, q subcomponent binding protein Predicted Protein ARMET precursor Armet protein Armet RCB-0035 WEHI-3 cDNA RIKEN full-length enriched library clone:G430091B19 product:arginine-rich mutated in early stage tumors full insert sequence	11 3 5 2 3 4 15 6 23 32 4 24 15 8
IPI00463344.5 IPI00471678.1 IPI00648539.2 IPI00757611.1 IPI00369635.3 IPI00653921.2 IPI00214889.1 IPI00314467.3 IPI00314467.3 IPI00131695.3 IPI00204316.1 IPI00475835.3 IPI00274739.1 IPI00330591.1 IPI00330591.1 IPI00352475.3 IPI00109696.1 IPI00765109.1 IPI00224152.5 IPI00135686.2 IPI00471325.2 IPI00870805.1 IPI00222509.1 IPI00132799.4 IPI00371043.2 IPI00404019.1 IPI00775791.1	DnaJ homolog subfamily c member 8 DnaJ (Hsp40) homolog subfamily c member 8 DnaJ homolog subfamily c member 8 Radixin Radixin isoform a Proteasome subunit beta type-3 Proteasome subunit beta type-3 Serum albumin precursor ATP synthase-coupling factor 6, mitochondrial precursor D-3-phosphoglycerate dehydrogenase Isoform 2 of DNA-binding protein A Isoform 1 of DNA-binding protein A 28 kDa heat- and acid-stable phosphoprotein 28 kDa heat- and acid-stable phosphoprotein EG628161 peptidyl-prolyl cis-trans isomerase NIMA-interacting 4 LOC684441 similar to peptidyl-prolyl cis-trans isomerase NIMA-interacting 4 DNA-(apurinic or apyrimidinic site) lyase Peptidylprolyl isomerase B Endothelial differentiation-related factor 1 Edf1_predicted endothelial differentiation-related factor 1 Protein RCC2 Complement component 1, q subcomponent binding protein Predicted Protein ARMET precursor Armet protein Armet RCB-0035 WEHI-3 cDNA RIKEN full-length enriched library clone:G430091B19 product:arginine-rich mutated in early stage tumors full insert sequence	11 3 5 2 3 4 15 6 23 32 4 24 15 8

IPI00212314.5	Moesin	
IPI00778167.1	68 kDa protein	
IPI00360269.4	25 kDa protein	7
IPI00780039.1	25 kDa protein	
IPI00230108.6	Protein disulfide-isomerase A3 precursor	16
IPI00133903.1	Hspa9 Stress-70 protein mitochondrial precursor	18
IPI00880839.1	Hspa9 heat shock protein 9	
IPI00210566.3	Heat shock protein HSP 90-alpha	9
IPI00330804.4	Heat shock protein HSP 90-alpha	
IPI00112223.1	EF-hand domain-containing protein D2	2
IPI00200410.3	EF-hand domain-containing protein D2	
IPI00226872.1	Efhd2 16 days embryo head cDNA RIKEN full-length enriched library clone:C130064C02	
	product:SWIPROSIN 1 full insert sequence	
IPI00135512.1	Protein canopy homolog 2 precursor	2
IPI00205163.3	Similar to MIR-interacting saposin-like protein	
IPI00808645.1	LOC684485 similar to MIR-interacting saposin-like protein precursor	
IPI00776522.1	31 kDa protein	4
IPI00222430.5	Diazepam binding inhibitor isoform 1	5
IPI00667117.2	Dbi acyl-CoA-binding protein	
IPI00831604.1	Dbi protein	
IPI00227392.5	14-3-3 protein eta	3
IPI00231677.5	14-3-3 protein eta	
IPI00788324.1	Myh9 15 days pregnant adult female amnion cDNA, RIKEN full-length enriched library,	3
	clone:M421002E03 product:myosin heavy chain IX, full insert sequence	
IPI00231827.6	Nucleolin	6
IPI00882501.1	Nucleolin	
IPI00227657.6	Stromal cell-derived factor 2-like protein 1 precursor	3
IPI00120984.5	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 8	2
IPI00129516.1	Cytochrome b-c1 complex subunit 6 mitochondrial precursor	2
IPI00369093.1	Cytochrome b-c1 complex subunit 6 mitochondrial precursor	

IPI: International Protein Index. Protein names are derived from the IPI database (Rat-Mouse; version 3.24). All proteins listed are with probability (p) =1 and identified by \geq two peptides. Proteins listed in the same cell are either the same proteins with different IPI or proteins cannot be differentiated in the current database with the identified peptides.

Supplemental References

Liu J, Zhou Y, Wang Y, Fong H, Murray TM, Zhang J (2007) Identification of proteins involved in microglial endocytosis of alpha-synuclein. J Proteome Res 6:3614-3627.

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