

Supplementary Table 2

Mascot analyses of samples from the Aggregate Enriched Fractions (SILAC high density fraction) and from the Total Cell Lysates from two independent experiments (1 and 2).

SILAC1 high density fraction

Peak list format	Mascot generic
Search type	MIS
Mascot version	2.2.06
Database	IPL human
Fasta file	ipi.HUMAN.v3.47.fasta
Total sequences	72082
Total residues	30228094
Sequences after taxonomy filter	72082
Number of queries	6315

Decoy

Number of matches above identity threshold in search of real database	3638
Number of matches above identity threshold in search of decoy database	42
Number of matches above homology threshold in search of real database	5384
Number of matches above homology threshold in search of decoy database	127

Variable modifications

Identifier	Name	Delta	Neutral loss(es)	0
1	Oxidation (M)	15.994919	63.9983	
2	GlyGly (K)	114.042923	0	
3	Label:13C(6) (R)	6.020126	0	
4	Label:2H(4) (K)	4.025101	0	

Search Parameters

Taxonomy filter	All entries
Enzyme	Trypsin/P
Maximum Missed Cleavages	2
Fixed modifications	Carbamidomethyl (C)
Quantitation method	None
Variable modifications	Oxidation (M),GlyGly (K),Label:13C(6) (R),Label:2H(4) (K)
Peptide Mass Tolerance	20
Peptide Mass Tolerance Units	ppm
Fragment Mass Tolerance	0.6
Fragment Mass Tolerance Units	Da
Mass values	Monoisotopic
Instrument type	ESI-TRAP
Isotope error mode	2

Format parameters

Significance threshold	0.05
Max. number of hits	0
Use MudPIT protein scoring	1
Ions score cut-off	0
Include same-set proteins	0
Include sub-set proteins	0
Include unassigned	0
Require bold red	1

Protein hits		Accession	Description	Protein Score	Mass (Da)	Matches	Coverage
Protein number	hit						
1		IPI00008868	Tax_Id=9606 Gene_Symbol=MAP1B Microtubule-associated protein 1B	4147	271651	133	34.5
2		IPI00011654	Tax_Id=9606 Gene_Symbol=TUBB Tubulin beta chain	2849	50095	117	60.6
3		IPI00021439	Tax_Id=9606 Gene_Symbol=ACTB Actin, cytoplasmic 1	2572	42052	93	63.2
4		IPI00007752	Tax_Id=9606 Gene_Symbol=TUBB2C Tubulin beta-2C chain	2456	50255	106	63.4
5		IPI00013475	Tax_Id=9606 Gene_Symbol=TUBB2A Tubulin beta-2A chain	2335	50274	98	58.2
6		IPI00031370	Tax_Id=9606 Gene_Symbol=TUBB2B Tubulin beta-2B chain	2333	50377	98	58.2
7		IPI00783271	Tax_Id=9606 Gene_Symbol=LRPPRC Leucine-rich PPR motif-containing protein, mitochondrial	1922	159003	60	27.1
8		IPI00414676	Tax_Id=9606 Gene_Symbol=HSP90AB1 Heat shock protein HSP 90-beta	1807	83554	61	45.2
9		IPI00013164	Tax_Id=9606 Gene_Symbol=PRPH Isoform 1 of Peripherin	1790	53732	84	66
10		IPI00418471	Tax_Id=9606 Gene_Symbol=VIM Vimentin	1709	53676	68	67
11		IPI00013683	Tax_Id=9606 Gene_Symbol=TUBB3 Tubulin beta-3 chain	1684	50856	67	46.9
12		IPI00026781	Tax_Id=9606 Gene_Symbol=FASN Fatty acid synthase	1629	275850	64	19
13		IPI00465248	Tax_Id=9606 Gene_Symbol=ENO1 Isoform alpha-enolase of Alpha-enolase	1590	47481	49	59.9
14		IPI00003865	Tax_Id=9606 Gene_Symbol=HSPA8 Isoform 1 of Heat shock cognate 71 kDa protein	1559	71082	58	46.7
15		IPI00180675	Tax_Id=9606 Gene_Symbol=TUBA1A Tubulin alpha-1A chain	1463	50788	53	59.9
16		IPI00387144	Tax_Id=9606 Gene_Symbol=TUBA1B Tubulin alpha-1B chain	1435	50804	53	59.9
17		IPI00007765	Tax_Id=9606 Gene_Symbol=HSPA9 Stress-70 protein, mitochondrial	1391	73920	54	45.5
18		IPI00001453	Tax_Id=9606 Gene_Symbol=INA Alpha-internexin	1384	55528	48	53.1
19		IPI00382470	Tax_Id=9606 Gene_Symbol=HSP90AA1 heat shock protein 90kDa alpha (cytosolic), class A member 1 isoform 1	1344	98670	63	36.5
20		IPI00298788	Tax_Id=9606 Gene_Symbol=ILF3 Isoform 1 of Interleukin enhancer-binding factor 3	1254	95678	47	29.1
21		IPI00604620	Tax_Id=9606 Gene_Symbol=NCL Isoform 1 of Nucleolin	1250	76625	47	35.2

22	IPI00219018	Tax_Id=9606 Gene_Symbol=GAPDH Glyceraldehyde-3-phosphate dehydrogenase	1247	36201	37	52.5	
23	IPI00021405	Tax_Id=9606 Gene_Symbol=LMNA Isoform A of Lamin-A/C	1238	74380	40	36.7	
24	IPI00479186	Tax_Id=9606 Gene_Symbol=PKM2 Isoform M2 of Pyruvate kinase isozymes M1/M2	1228	58470	48	56.5	
25	IPI00739539	Tax_Id=9606 Gene_Symbol=A26C1B ANKRD26-like family C member 1B	1226	122946	47	17.3	
26	IPI00186290	Tax_Id=9606 Gene_Symbol=EEF2 Elongation factor 2	1128	96246	51	39	
27	IPI00171903	Tax_Id=9606 Gene_Symbol=HNRNPM Isoform 1 of Heterogeneous nuclear ribonucleoprotein M	1115	77749	64	54.5	
28	IPI00440493	Tax_Id=9606 Gene_Symbol=ATP5A1 ATP synthase subunit alpha, mitochondrial	1105	59828	30	31.5	
29	IPI00396378	Tax_Id=9606 Gene_Symbol=HNRNPA2B1 Isoform B1 of Heterogeneous nuclear ribonucleoproteins A2/B1	1046	37464	23	45.9	
30	IPI00220834	Tax_Id=9606 Gene_Symbol=XRCC5 ATP-dependent DNA helicase 2 subunit 2	1031	83222	37	34.6	
31	IPI00006196	Tax_Id=9606 Gene_Symbol=NUMA1 Isoform 2 of Nuclear mitotic apparatus protein 1	949	237456	56	22	
32	IPI00336094	Tax_Id=9606 Gene_Symbol=HSD17B10 Isoform 2 of 3-hydroxyacyl-CoA dehydrogenase type-2	908	26196	31	38.9	
33	IPI00010810	Tax_Id=9606 Gene_Symbol=ETFA Electron transfer flavoprotein subunit alpha, mitochondrial	880	35400	22	44.1	
34	IPI00003362	Tax_Id=9606 Gene_Symbol=HSPA5 HSPA5 protein	825	72492	31	32.1	
35	IPI00217465	Tax_Id=9606 Gene_Symbol=HIST1H1C Histone H1.2	815	21352	48	49.8	
36	IPI00217466	Tax_Id=9606 Gene_Symbol=HIST1H1D Histone H1.3	810	22336	45	34.8	
37	IPI00641950	Tax_Id=9606 Gene_Symbol=GNB2L1 Lung cancer oncogene 7	806	38378	23	43.8	
38	IPI00217467	Tax_Id=9606 Gene_Symbol=HIST1H1E Histone H1.4	802	21852	47	43.4	
39	IPI00237671	Tax_Id=9606 Gene_Symbol=NEFL Neurofilament light polypeptide	798	61536	43	35.4	
40	IPI00303476	Tax_Id=9606 Gene_Symbol=ATP5B ATP synthase subunit beta, mitochondrial	796	56525	28	35.7	
41	IPI00644079	Tax_Id=9606 Gene_Symbol=HNRNPU heterogeneous nuclear ribonucleoprotein U isoform a	768	91269	47	30.4	
42	IPI00853161	Tax_Id=9606 Gene_Symbol=RPL10 ribosomal protein L10	765	25017	20	47.2	
43	IPI00853115	Tax_Id=9606 Gene_Symbol=- NEFM protein	741	98383	52	38.8	
44	IPI00025491	Tax_Id=9606 Gene_Symbol=EIF4A1 Eukaryotic initiation factor 4A-I	736	46353	24	45.3	
45	IPI00396485	Tax_Id=9606 Gene_Symbol=EEF1A1 Elongation factor 1-alpha 1	729	50451	44	43.7	
46	IPI00644712	Tax_Id=9606 Gene_Symbol=XRCC6 ATP-dependent DNA helicase 2 subunit 1	720	70084	35	33.3	
47	IPI00018146	Tax_Id=9606 Gene_Symbol=YWHAQ 14-3-3 protein theta	700	28032	26	50.2	
48	IPI00449049	Tax_Id=9606 Gene_Symbol=PARP1 Poly [ADP-ribose] polymerase 1	657	113811	40	25.6	
49	IPI00453473	Tax_Id=9606 Gene_Symbol=HIST2H4B;HIST1H4F;HIST1H4J;HIST1H4H;Histone H4	654	11360	31	60.2	4A;HIST1H4H;

50	IPI00784154	Tax_Id=9606 Gene_Symbol=HSPD1 60 kDa heat shock protein, mitochondrial	648	61187	28	44
51	IPI00163187	Tax_Id=9606 Gene_Symbol=FSCN1 Fascin	643	55123	19	32.9
52	IPI00301277	Tax_Id=9606 Gene_Symbol=HSPA1L Heat shock 70 kDa protein 1L	627	70730	23	18.9
53	IPI00027834	Tax_Id=9606 Gene_Symbol=HNRNPL heterogeneous nuclear ribonucleoprotein L isoform a	618	64720	24	33.3
54	IPI00008603	Tax_Id=9606 Gene_Symbol=ACTA2 Actin, aortic smooth muscle	610	42381	51	33.4
55	IPI00008529	Tax_Id=9606 Gene_Symbol=RPLP2 60S acidic ribosomal protein P2	604	11658	18	75.7
56	IPI00220642	Tax_Id=9606 Gene_Symbol=YWHAG 14-3-3 protein gamma	604	28456	22	47
57	IPI00299573	Tax_Id=9606 Gene_Symbol=RPL7A 60S ribosomal protein L7a	603	30148	25	37.2
58	IPI00011107	Tax_Id=9606 Gene_Symbol=IDH2 Isocitrate dehydrogenase [NADP], mitochondrial	589	51333	28	34.5
59	IPI00027107	Tax_Id=9606 Gene_Symbol=TUFM Tu translation elongation factor, mitochondrial precursor	585	50185	34	41.5
60	IPI00304925	Tax_Id=9606 Gene_Symbol=HSPA1B;HSPA1A Heat shock 70 kDa protein 1	574	70294	23	22.5
61	IPI00290770	Tax_Id=9606 Gene_Symbol=CCT3 chaperonin containing TCP1, subunit 3 isoform b	571	60994	19	30.1
62	IPI00016610	Tax_Id=9606 Gene_Symbol=PCBP1 Poly(rC)-binding protein 1	561	37987	21	32.6
63	IPI00550021	Tax_Id=9606 Gene_Symbol=RPL3 60S ribosomal protein L3	553	46365	34	38.2
64	IPI00169383	Tax_Id=9606 Gene_Symbol=PGK1 Phosphoglycerate kinase 1	545	44985	21	33.3
65	IPI00394838	Tax_Id=9606 Gene_Symbol=ACLY ATP citrate lyase isoform 2	543	120608	29	21.4
66	IPI00013881	Tax_Id=9606 Gene_Symbol=HNRNPH1 Heterogeneous nuclear ribonucleoprotein H	539	49484	23	29.6
67	IPI00003918	Tax_Id=9606 Gene_Symbol=RPL4 60S ribosomal protein L4	527	47953	33	30.4
68	IPI00419585	Tax_Id=9606 Gene_Symbol=PPIA Peptidyl-prolyl cis-trans isomerase A	523	18229	24	52.7
69	IPI00215965	Tax_Id=9606 Gene_Symbol=HNRNPA1 Isoform A1-B of Heterogeneous nuclear ribonucleoprotein A1	512	38936	19	41.4
70	IPI00177817	Tax_Id=9606 Gene_Symbol=ATP2A2 Isoform SERCA2A of Sarcolemmal/endoplasmic reticulum calcium ATPase 2	469	111103	14	11.4
71	IPI00000816	Tax_Id=9606 Gene_Symbol=YWHAH 14-3-3 protein epsilon	466	29326	16	40.8
72	IPI00012011	Tax_Id=9606 Gene_Symbol=CFL1 Cofilin-1	465	18719	20	53.6
73	IPI00024933	Tax_Id=9606 Gene_Symbol=RPL12 Isoform 1 of 60S ribosomal protein L12	461	17979	15	58.8
74	IPI00012726	Tax_Id=9606 Gene_Symbol=PABPC4 Isoform 1 of Polyadenylate-binding protein 4	460	71080	19	17.9
75	IPI00472119	Tax_Id=9606 Gene_Symbol=- Uncharacterized protein ENSP00000343748	457	30180	18	40.9
76	IPI00220740	Tax_Id=9606 Gene_Symbol=NPM1 Isoform 2 of Nucleophosmin	456	29617	18	36.6
77	IPI00289499	Tax_Id=9606 Gene_Symbol=ATIC Bifunctional purine biosynthesis protein PURH	451	65089	18	26.5
78	IPI00456969	Tax_Id=9606 Gene_Symbol=DYNC1H1 Cytoplasmic dynein 1 heavy chain 1	450	534809	47	9.9

79	IPI00025329	Tax_Id=9606 Gene_Symbol=RPL19 60S ribosomal protein L19	445	23565	11	24
80	IPI00012066	Tax_Id=9606 Gene_Symbol=PCBP2 poly(rC) binding protein 2 isoform b	443	38597	15	13.8
81	IPI00081836	Tax_Id=9606 Gene_Symbol=HIST1H2AH Histone H2A type 1-H	439	13898	21	38.3
82	IPI00000873	Tax_Id=9606 Gene_Symbol=VARS Valyl-tRNA synthetase	432	141642	18	10.8
83	IPI00219757	Tax_Id=9606 Gene_Symbol=GSTP1 Glutathione S-transferase P	430	23569	12	52.4
84	IPI00218342	Tax_Id=9606 Gene_Symbol=MTHFD1 C-1-tetrahydrofolate synthase, cytoplasmic	428	102180	24	19.7
85	IPI00216592	Tax_Id=9606 Gene_Symbol=HNRNPC Isoform C1 of Heterogeneous nuclear ribonucleoproteins C1/C2	426	32375	23	44
86	IPI00299402	Tax_Id=9606 Gene_Symbol=PC Pyruvate carboxylase, mitochondrial	426	130293	19	13.9
87	IPI00419373	Tax_Id=9606 Gene_Symbol=HNRNPA3 Isoform 1 of Heterogeneous nuclear ribonucleoprotein A3	422	39799	11	25.4
88	IPI00025252	Tax_Id=9606 Gene_Symbol=PDIA3 Protein disulfide-isomerase A3	420	57146	21	27.9
89	IPI00290566	Tax_Id=9606 Gene_Symbol=TCP1 T-complex protein 1 subunit alpha	418	60819	19	36.2
90	IPI00297779	Tax_Id=9606 Gene_Symbol=CCT2 T-complex protein 1 subunit beta	417	57794	18	22.2
91	IPI00646304	Tax_Id=9606 Gene_Symbol=PPIB peptidylprolyl isomerase B precursor	407	23785	16	25.5
92	IPI00329665	Tax_Id=9606 Gene_Symbol=HIST2H2BF;HIST2H2BA Histone H2B type 2-F	401	13912	16	39.7
93	IPI00219156	Tax_Id=9606 Gene_Symbol=RPL30 60S ribosomal protein L30	397	12947	18	66.1
94	IPI00001960	Tax_Id=9606 Gene_Symbol=CLIC4 Chloride intracellular channel protein 4	396	28982	10	26.5
95	IPI00031522	Tax_Id=9606 Gene_Symbol=HADHA Trifunctional enzyme subunit alpha, mitochondrial	394	83688	21	21.6
96	IPI00003935	Tax_Id=9606 Gene_Symbol=HIST2H2BE Histone H2B type 2-E	390	13912	12	32.5
97	IPI00011253	Tax_Id=9606 Gene_Symbol=RPS3 40S ribosomal protein S3	390	26842	25	61.3
98	IPI00008524	Tax_Id=9606 Gene_Symbol=PABPC1 Isoform 1 of Polyadenylate-binding protein 1	386	70854	17	19.2
99	IPI00140420	Tax_Id=9606 Gene_Symbol=SND1 Staphylococcal nuclease domain-containing protein 1	386	102618	20	20.4
100	IPI00003881	Tax_Id=9606 Gene_Symbol=HNRNPF Heterogeneous nuclear ribonucleoprotein F	383	45985	13	30.6
101	IPI00008530	Tax_Id=9606 Gene_Symbol=RPLP0 60S acidic ribosomal protein P0	382	34423	19	34.4
102	IPI00216587	Tax_Id=9606 Gene_Symbol=RPS8 40S ribosomal protein S8	381	24475	17	47.1
103	IPI00027230	Tax_Id=9606 Gene_Symbol=HSP90B1 Endoplasmic	376	92696	26	21.8
104	IPI00014424	Tax_Id=9606 Gene_Symbol=EEF1A2 Elongation factor 1-alpha 2	376	50780	31	28.1
105	IPI00009104	Tax_Id=9606 Gene_Symbol=RUVBL2 RuvB-like 2	371	51296	13	30.2
106	IPI00069058	Tax_Id=9606 Gene_Symbol=VGF VGF nerve growth factor inducible precursor	370	67275	13	22.9
107	IPI00025091	Tax_Id=9606 Gene_Symbol=RPS11 40S ribosomal protein S11	369	18590	19	58.9

108	IPI00302592	Tax_Id=9606 Gene_Symbol=FLNA filamin A, alpha isoform 1	367	282581	27	10.9
109	IPI00217468	Tax_Id=9606 Gene_Symbol=HIST1H1B Histone H1.5	364	22566	23	43.4
110	IPI00026230	Tax_Id=9606 Gene_Symbol=HNRNPH2 Heterogeneous nuclear ribonucleoprotein H2	362	49517	18	24.9
111	IPI00179330	Tax_Id=9606 Gene_Symbol=UBC;UBB;RPS27A ubiquitin and ribosomal protein S27a precursor	362	18296	18	48.1
112	IPI00651653	Tax_Id=9606 Gene_Symbol=DDX17 Isoform 3 of Probable ATP-dependent RNA helicase DDX17	358	73138	23	22.7
113	IPI00012772	Tax_Id=9606 Gene_Symbol=RPL8 60S ribosomal protein L8	357	28235	18	41.2
114	IPI00216318	Tax_Id=9606 Gene_Symbol=YWHAB Isoform Long of 14-3-3 protein beta/alpha	356	28179	18	47.6
115	IPI00216691	Tax_Id=9606 Gene_Symbol=PFN1 Profilin-1	351	15216	15	63.6
116	IPI00221093	Tax_Id=9606 Gene_Symbol=RPS17 40S ribosomal protein S17	350	15597	10	48.9
117	IPI00329389	Tax_Id=9606 Gene_Symbol=RPL6 60S ribosomal protein L6	347	32765	28	42.7
118	IPI00030363	Tax_Id=9606 Gene_Symbol=ACAT1 Acetyl-CoA acetyltransferase, mitochondrial	346	45456	15	26
119	IPI00018352	Tax_Id=9606 Gene_Symbol=UCHL1 Ubiquitin carboxyl-terminal hydrolase isozyme L1	346	25151	14	46.6
120	IPI00306332	Tax_Id=9606 Gene_Symbol=RPL24 60S ribosomal protein L24	346	17882	20	36.9
121	IPI00844578	Tax_Id=9606 Gene_Symbol=DHX9 ATP-dependent RNA helicase A	344	142181	26	18.7
122	IPI00017617	Tax_Id=9606 Gene_Symbol=DDX5 Probable ATP-dependent RNA helicase DDX5	342	69618	33	33.7
123	IPI00301263	Tax_Id=9606 Gene_Symbol=CAD CAD protein	340	245167	17	8.3
124	IPI00026268	Tax_Id=9606 Gene_Symbol=GNB1 Guanine nucleotide-binding protein G(I)/G(S)/G(T) subunit beta-1	338	38151	12	38.8
125	IPI00413611	Tax_Id=9606 Gene_Symbol=TOP1 DNA topoisomerase 1	337	91125	29	26.9
126	IPI00012837	Tax_Id=9606 Gene_Symbol=KIF5B Kinesin-1 heavy chain	337	110358	17	17.3
127	IPI00335168	Tax_Id=9606 Gene_Symbol=MYL6;MYL6B Isoform Non-muscle of Myosin light polypeptide 6	334	17090	10	30.5
128	IPI00001159	Tax_Id=9606 Gene_Symbol=GCN1L1 Translational activator GCN1	329	294953	25	11
129	IPI00645078	Tax_Id=9606 Gene_Symbol=UBA1 Ubiquitin-like modifier-activating enzyme 1	327	118858	15	14.7
130	IPI00215719	Tax_Id=9606 Gene_Symbol=RPL18 60S ribosomal protein L18	323	21735	25	48.4
131	IPI00791920	Tax_Id=9606 Gene_Symbol=RPL23 13 kDa protein	322	13241	9	50.8
132	IPI00220301	Tax_Id=9606 Gene_Symbol=PRDX6 Peroxiredoxin-6	321	25133	12	37.1
133	IPI00217030	Tax_Id=9606 Gene_Symbol=RPS4X 40S ribosomal protein S4, X isoform	321	29807	19	43.3
134	IPI00376005	Tax_Id=9606 Gene_Symbol=EIF5A Isoform 2 of Eukaryotic translation initiation factor 5A-1	320	20442	12	41.8
135	IPI00013723	Tax_Id=9606 Gene_Symbol=PIN1 Peptidyl-prolyl cis-trans isomerase NIMA-interacting 1	315	18346	5	12.3
136	IPI00015018	Tax_Id=9606 Gene_Symbol=PPA1 Inorganic pyrophosphatase	314	33095	12	34.6
137	IPI00024067	Tax_Id=9606 Gene_Symbol=CLTC Isoform 1 of Clathrin heavy chain 1	311	193260	18	9.1

138	IPI00003348	Tax_Id=9606 Gene_Symbol=GNB2 Guanine nucleotide-binding protein G(I)/G(S)/G(T) subunit beta-2	307	38048	12	30.6
139	IPI00425405	Tax_Id=9606 Gene_Symbol=KIF21A Isoform 2 of Kinesin-like protein KIF21A	300	186706	14	8.4
140	IPI00843765	Tax_Id=9606 Gene_Symbol=SPTAN1 Isoform 3 of Spectrin alpha chain, brain	300	282906	29	13.4
141	IPI00004902	Tax_Id=9606 Gene_Symbol=ETFB Isoform 1 of Electron transfer flavoprotein subunit beta	295	28054	8	25.1
142	IPI00014398	Tax_Id=9606 Gene_Symbol=FHL1 Four and a half LIM domains 1 variant	292	35494	12	40.5
143	IPI00216049	Tax_Id=9606 Gene_Symbol=HNRNPK Isoform 1 of Heterogeneous nuclear ribonucleoprotein K	291	51230	12	19.7
144	IPI00165393	Tax_Id=9606 Gene_Symbol=ANP32E Acidic leucine-rich nuclear phosphoprotein 32 family member E	287	30902	7	17.5
145	IPI00465132	Tax_Id=9606 Gene_Symbol=COPE Coatomer subunit epsilon	287	34688	8	21.4
146	IPI00376215	Tax_Id=9606 Gene_Symbol=PRKDC Isoform 2 of DNA-dependent protein kinase catalytic subunit	284	470163	35	8.5
147	IPI00015029	Tax_Id=9606 Gene_Symbol=PTGES3 Prostaglandin E synthase 3	283	18971	11	38.8
148	IPI00017448	Tax_Id=9606 Gene_Symbol=RPS21 40S ribosomal protein S21	281	9220	9	39.8
149	IPI00465439	Tax_Id=9606 Gene_Symbol=ALDOA Fructose-bisphosphate aldolase A	281	39851	10	19.2
150	IPI00397526	Tax_Id=9606 Gene_Symbol=MYH10 Isoform 1 of Myosin-10	281	229824	25	15
151	IPI00893541	Tax_Id=9606 Gene_Symbol=PDIA3 14 kDa protein	281	13739	8	41.5
152	IPI00856037	Tax_Id=9606 Gene_Symbol=HNRNPR heterogeneous nuclear ribonucleoprotein R isoform 3	278	60144	15	21.9
153	IPI00010740	Tax_Id=9606 Gene_Symbol=SFPQ Isoform Long of Splicing factor, proline- and glutamine-rich	278	76216	18	18.7
154	IPI00395998	Tax_Id=9606 Gene_Symbol=RPL32 60S ribosomal protein L32	275	15964	13	33.3
155	IPI00027423	Tax_Id=9606 Gene_Symbol=PPP1CA protein phosphatase 1, catalytic subunit, alpha isoform 3	275	39405	8	22.9
156	IPI00005705	Tax_Id=9606 Gene_Symbol=PPP1CC Isoform Gamma-1 of Serine/threonine-protein phosphatase PP1-gamma catalytic subunit	270	37701	11	26.3
157	IPI00304596	Tax_Id=9606 Gene_Symbol=NONO Non-POU domain-containing octamer-binding protein	270	54311	15	29.9
158	IPI00216730	Tax_Id=9606 Gene_Symbol=HIST2H2AB Histone H2A type 2-B	268	13987	11	30
159	IPI00291928	Tax_Id=9606 Gene_Symbol=RAB14 Ras-related protein Rab-14	265	24110	9	11.6
160	IPI00879004	Tax_Id=9606 Gene_Symbol=TOP2A Isoform 4 of DNA topoisomerase 2-alpha	263	183479	20	8.7
161	IPI00032003	Tax_Id=9606 Gene_Symbol=EMD Emerin	261	29033	6	11.4
162	IPI00221088	Tax_Id=9606 Gene_Symbol=RPS9 40S ribosomal protein S9	259	22635	22	50
163	IPI00021751	Tax_Id=9606 Gene_Symbol=NEFH Neurofilament heavy polypeptide	257	112640	26	19.5
164	IPI00027442	Tax_Id=9606 Gene_Symbol=AARS Alanyl-tRNA synthetase, cytoplasmic	256	107484	14	11.1

165	IPI00301503	Tax_Id=9606 Gene_Symbol=SFRS10 Isoform 1 of Splicing factor, arginine/serine-rich 10	256	33760	10	25
166	IPI00022977	Tax_Id=9606 Gene_Symbol=CKB Creatine kinase B-type	256	42902	15	37.3
167	IPI00257508	Tax_Id=9606 Gene_Symbol=DPYSL2 Dihydropyrimidinase-related protein 2	254	62711	11	17.7
168	IPI00025273	Tax_Id=9606 Gene_Symbol=GART Isoform Long of Trifunctional purine biosynthetic protein adenosine-3	253	108953	14	13.3
169	IPI00018465	Tax_Id=9606 Gene_Symbol=CCT7 T-complex protein 1 subunit eta	253	59842	12	15.1
170	IPI00847579	Tax_Id=9606 Gene_Symbol=RPS12 ribosomal protein S12	253	14905	14	56.8
171	IPI00550032	Tax_Id=9606 Gene_Symbol=RPL15;LOC653232 Ribosomal protein L15 (RPL15) pseudogene	253	24273	18	41.2
172	IPI00412579	Tax_Id=9606 Gene_Symbol=RPL10A 60S ribosomal protein L10a	251	24987	9	28.6
173	IPI00215687	Tax_Id=9606 Gene_Symbol=GLS Isoform GAC of Glutaminase kidney isoform, mitochondrial	248	66216	6	12.7
174	IPI00413344	Tax_Id=9606 Gene_Symbol=CFL2 Cofilin-2	247	18839	8	27.7
175	IPI00219153	Tax_Id=9606 Gene_Symbol=RPL22 60S ribosomal protein L22	247	14835	11	55.5
176	IPI00299155	Tax_Id=9606 Gene_Symbol=PSMA4 Proteasome subunit alpha type-4	246	29750	3	15.3
177	IPI00377261	Tax_Id=9606 Gene_Symbol=FUBP3 Isoform 1 of Far upstream element-binding protein 3	246	61944	11	24.7
178	IPI00790214	Tax_Id=9606 Gene_Symbol=RCN2 Uncharacterized protein RCN2	244	39286	9	29
179	IPI00398135	Tax_Id=9606 Gene_Symbol=hCG_21078 hypothetical protein LOC389435	243	16726	10	31.8
180	IPI00023748	Tax_Id=9606 Gene_Symbol=NACA Nascent polypeptide-associated complex subunit alpha	242	23370	4	13.5
181	IPI00376344	Tax_Id=9606 Gene_Symbol=MYO1B Isoform 1 of Myosin-Ib	241	132928	17	16.5
182	IPI00103994	Tax_Id=9606 Gene_Symbol=LARS Leucyl-tRNA synthetase, cytoplasmic	241	135577	17	19
183	IPI00030275	Tax_Id=9606 Gene_Symbol=TRAP1 Heat shock protein 75 kDa, mitochondrial	239	80345	11	17
184	IPI00398700	Tax_Id=9606 Gene_Symbol=GNAO1 Isoform Alpha-2 of Guanine nucleotide-binding protein G(o) subunit alpha	238	40574	10	18.4
185	IPI00300341	Tax_Id=9606 Gene_Symbol=TCEB1 Transcription elongation factor B polypeptide 1	237	12636	5	12.5
186	IPI00061114	Tax_Id=9606 Gene_Symbol=RAB3C Ras-related protein Rab-3C	236	26164	9	16.7
187	IPI00179298	Tax_Id=9606 Gene_Symbol=HUWE1 482 kDa protein	236	485780	19	4.6
188	IPI00470891	Tax_Id=9606 Gene_Symbol=CSDE1 Isoform Long of Cold shock domain-containing protein E1	235	89684	11	14
189	IPI00023504	Tax_Id=9606 Gene_Symbol=RAB3A Ras-related protein Rab-3A	235	25196	8	17.7
190	IPI00215914	Tax_Id=9606 Gene_Symbol=ARF1 ADP-ribosylation factor 1	231	20741	7	29.8
191	IPI00008433	Tax_Id=9606 Gene_Symbol=RPS5 40S ribosomal protein S5	230	23033	13	39.7
192	IPI00021263	Tax_Id=9606 Gene_Symbol=YWHAZ 14-3-3 protein zeta/delta	230	27899	13	42
193	IPI00027497	Tax_Id=9606 Gene_Symbol=GPI Glucose-6-phosphate isomerase	229	63335	9	16.7

194	IPI00008557	Tax_Id=9606 Gene_Symbol=IGF2BP1 Insulin-like growth factor 2 mRNA-binding protein 1	226	63759	19	27.6
195	IPI00013877	Tax_Id=9606 Gene_Symbol=HNRNPH3 Isoform 1 of Heterogeneous nuclear ribonucleoprotein H3	226	36960	8	21.7
196	IPI00029750	Tax_Id=9606 Gene_Symbol=RPS24 Isoform 1 of 40S ribosomal protein S24	225	15413	11	34.6
197	IPI00179700	Tax_Id=9606 Gene_Symbol=HMGA1 Isoform HMG-I of High mobility group protein HMG-I/HMG-Y	222	11669	12	60.7
198	IPI00179473	Tax_Id=9606 Gene_Symbol=SQSTM1 Isoform 1 of Sequestosome-1	222	48455	9	24.8
199	IPI00005198	Tax_Id=9606 Gene_Symbol=ILF2 Interleukin enhancer-binding factor 2	221	43263	6	10.3
200	IPI00742926	Tax_Id=9606 Gene_Symbol=HNRNPAB 36 kDa protein	220	36279	12	30.7
201	IPI00006510	Tax_Id=9606 Gene_Symbol=TUBB1 Tubulin beta-1 chain	220	50865	19	16.9
202	IPI00026202	Tax_Id=9606 Gene_Symbol=RPL18A 60S ribosomal protein L18a	220	21034	12	42.6
203	IPI00014177	Tax_Id=9606 Gene_Symbol=SEPT2 Septin-2	219	41689	7	17.2
204	IPI00031691	Tax_Id=9606 Gene_Symbol=RPL9 60S ribosomal protein L9	218	21964	8	19.3
205	IPI00168262	Tax_Id=9606 Gene_Symbol=GLT25D1 Glycosyltransferase family member 1	218	71933	9	12.4
206	IPI00009328	Tax_Id=9606 Gene_Symbol=EIF4A3 Eukaryotic initiation factor 4A-III	217	47126	9	20.9
207	IPI00376481	Tax_Id=9606 Gene_Symbol=PRR6 Isoform 3 of Proline-rich protein 6	215	30168	8	17.6
208	IPI00006865	Tax_Id=9606 Gene_Symbol=SEC22B Vesicle-trafficking protein SEC22b	213	24896	4	10.7
209	IPI00032808	Tax_Id=9606 Gene_Symbol=RAB3D Ras-related protein Rab-3D	212	24480	7	10.5
210	IPI00013452	Tax_Id=9606 Gene_Symbol=EPRS Bifunctional aminoacyl-tRNA synthetase	205	172137	27	21
211	IPI00550069	Tax_Id=9606 Gene_Symbol=RNH1 Ribonuclease inhibitor	201	51766	3	6.5
212	IPI00792186	Tax_Id=9606 Gene_Symbol=ABCF1 ATP-binding cassette, subfamily F (GCN20), member 1	200	96451	10	11.7
213	IPI00000494	Tax_Id=9606 Gene_Symbol=RPL5 60S ribosomal protein L5	199	34569	16	41.1
214	IPI00414860	Tax_Id=9606 Gene_Symbol=RPL37A 60S ribosomal protein L37a	198	10497	8	50
215	IPI00000874	Tax_Id=9606 Gene_Symbol=PRDX1 Peroxiredoxin-1	197	22324	12	47.2
216	IPI00013508	Tax_Id=9606 Gene_Symbol=ACTN1 Alpha-actinin-1	193	103563	9	9.5
217	IPI00784614	Tax_Id=9606 Gene_Symbol=SEPT9 Isoform 1 of Septin-9	193	65646	4	7.5
218	IPI00012007	Tax_Id=9606 Gene_Symbol=AHCY Adenosylhomocysteinase	193	48255	11	25
219	IPI00027626	Tax_Id=9606 Gene_Symbol=CCT6A T-complex protein 1 subunit zeta	192	58444	14	28.2
220	IPI00001539	Tax_Id=9606 Gene_Symbol=ACAA2 3-ketoacyl-CoA thiolase, mitochondrial	191	42354	5	9.8
221	IPI00658000	Tax_Id=9606 Gene_Symbol=IGF2BP3 Isoform 1 of Insulin-like growth factor 2 mRNA-binding protein 3	190	64023	17	26.4
222	IPI00022228	Tax_Id=9606 Gene_Symbol=HDLBP Vigilin	189	141979	19	15.3
223	IPI00002966	Tax_Id=9606 Gene_Symbol=HSPA4 Heat shock 70 kDa protein 4	188	95096	10	11.4
224	IPI00001639	Tax_Id=9606 Gene_Symbol=KPNB1 Importin subunit beta-1	187	98420	8	7.4

225	IPI00301434	Tax_Id=9606 Gene_Symbol=BOLA2;BOLA2B Bola-like protein 2	187	17150	5	25
226	IPI00793443	Tax_Id=9606 Gene_Symbol=IPO5 importin 5	186	126946	9	8
227	IPI00789551	Tax_Id=9606 Gene_Symbol=MATR3 Uncharacterized protein MATR3	185	100419	19	18.7
228	IPI00643041	Tax_Id=9606 Gene_Symbol=RAN GTP-binding nuclear protein Ran	183	24579	8	25
229	IPI00289907	Tax_Id=9606 Gene_Symbol=FYTDD1 Forty-two-three domain-containing protein 1	182	35834	7	17
230	IPI00169430	Tax_Id=9606 Gene_Symbol=STRBP Isoform 1 of Spermatid perinuclear RNA-binding protein	181	74290	17	12.9
231	IPI00013296	Tax_Id=9606 Gene_Symbol=RPS18;LOC100130553 40S ribosomal protein S18	181	17708	13	46.7
232	IPI00217975	Tax_Id=9606 Gene_Symbol=LMNB1 Lamin-B1	179	66653	13	20.5
233	IPI00219525	Tax_Id=9606 Gene_Symbol=PGD 6-phosphogluconate dehydrogenase, decarboxylating	179	53619	6	10.4
234	IPI00218993	Tax_Id=9606 Gene_Symbol=HSPH1 Isoform Beta of Heat shock protein 105 kDa	178	92970	12	17.1
235	IPI00006451	Tax_Id=9606 Gene_Symbol=NSF Vesicle-fusing ATPase	177	83021	11	16.8
236	IPI00002821	Tax_Id=9606 Gene_Symbol=RPL14 60S ribosomal protein L14	177	23389	11	38.5
237	IPI00295857	Tax_Id=9606 Gene_Symbol=COPA Coatamer subunit alpha	176	139783	12	9.7
238	IPI00016513	Tax_Id=9606 Gene_Symbol=RAB10 Ras-related protein Rab-10	175	22755	8	18
239	IPI00375358	Tax_Id=9606 Gene_Symbol=RFC1 Isoform 1 of Replication factor C subunit 1	175	128688	15	13.1
240	IPI00018140	Tax_Id=9606 Gene_Symbol=SYNCRIP Isoform 1 of Heterogeneous nuclear ribonucleoprotein Q	174	69788	12	19.3
241	IPI00642971	Tax_Id=9606 Gene_Symbol=EEF1D eukaryotic translation elongation factor 1 delta isoform 1	173	71820	8	12.2
242	IPI00298971	Tax_Id=9606 Gene_Symbol=VTN Vitronectin	172	55069	7	6.3
243	IPI00181306	Tax_Id=9606 Gene_Symbol=UBAP2L Isoform 3 of Ubiquitin-associated protein 2-like	172	112626	7	8
244	IPI00554737	Tax_Id=9606 Gene_Symbol=PPP2R1A Serine/threonine-protein phosphatase 2A 65 kDa regulatory subunit A alpha isoform	171	66065	6	9.7
245	IPI00017283	Tax_Id=9606 Gene_Symbol=IARS2 Isoleucyl-tRNA synthetase, mitochondrial	170	114688	9	7.2
246	IPI00384016	Tax_Id=9606 Gene_Symbol=DLST Full-length cDNA 5-PRIME end of clone CS0DJ009YL13 of T cells (Jurkat cell line) of Homo sapiens (Fragment)	170	29892	5	7.9
247	IPI00005614	Tax_Id=9606 Gene_Symbol=SPTBN1 Isoform Long of Spectrin beta chain, brain 1	170	275237	28	12.2
248	IPI00021926	Tax_Id=9606 Gene_Symbol=PSMC6 26S protease regulatory subunit S10B	169	44430	10	27.5
249	IPI00178352	Tax_Id=9606 Gene_Symbol=FLNC Isoform 1 of Filamin-C	167	293344	20	8
250	IPI00178440	Tax_Id=9606 Gene_Symbol=EEF1B2 Elongation factor 1-beta	167	24919	5	20
251	IPI00291006	Tax_Id=9606 Gene_Symbol=MDH2 Malate dehydrogenase, mitochondrial	166	35965	7	16.3

252	IPI00059366	Tax_Id=9606 Gene_Symbol=H2AFY H2A histone family, member Y isoform 2	165	39635	4	8.4
253	IPI00018278	Tax_Id=9606 Gene_Symbol=H2AFV Histone H2A.V	165	13501	8	23.4
254	IPI00514910	Tax_Id=9606 Gene_Symbol=LY6G5B;CSNK2B Casein kinase 2, beta polypeptide	165	27112	4	15.4
255	IPI00010896	Tax_Id=9606 Gene_Symbol=CLIC1 Chloride intracellular channel protein 1	162	27248	10	25.7
256	IPI00011421	Tax_Id=9606 Gene_Symbol=MLLT11 Protein AF1q	162	10055	3	54.4
257	IPI00101968	Tax_Id=9606 Gene_Symbol=DBNL Isoform 3 of Drebrin-like protein	162	49354	6	20.5
258	IPI00807557	Tax_Id=9606 Gene_Symbol=PA2G4 PA2G4 protein (Fragment)	161	45579	16	29.1
259	IPI00604707	Tax_Id=9606 Gene_Symbol=DLAT dihydrolipoamide S-acetyltransferase	161	69466	9	13.3
260	IPI00026689	Tax_Id=9606 Gene_Symbol=CDC2 Putative uncharacterized protein DKFZp686L20222	161	34813	5	15.2
261	IPI00220901	Tax_Id=9606 Gene_Symbol=TBC1D4 TBC1D4 protein	161	148111	12	6.9
262	IPI00306516	Tax_Id=9606 Gene_Symbol=TIMM44 Mitochondrial import inner membrane translocase subunit TIM44	160	51666	8	11.5
263	IPI00164481	Tax_Id=9606 Gene_Symbol=STAU2 Isoform 2 of Double-stranded RNA-binding protein Staufien homolog 2	160	59136	7	12.6
264	IPI00872597	Tax_Id=9606 Gene_Symbol=ZNF326 Uncharacterized protein ZNF326	160	65997	8	12.4
265	IPI00007144	Tax_Id=9606 Gene_Symbol=RPL26L1 60S ribosomal protein L26-like 1	160	17246	7	26.2
266	IPI00220473	Tax_Id=9606 Gene_Symbol=ATP2C1 Isoform 2 of Calcium-transporting ATPase type 2C member 1	159	97981	6	5.6
267	IPI00013415	Tax_Id=9606 Gene_Symbol=RPS7 40S ribosomal protein S7	159	22113	7	22.2
268	IPI00008964	Tax_Id=9606 Gene_Symbol=RAB1B Ras-related protein Rab-1B	158	22328	14	33.8
269	IPI00019329	Tax_Id=9606 Gene_Symbol=DYNLL1 Dynein light chain 1, cytoplasmic	158	10530	6	32.6
270	IPI00021266	Tax_Id=9606 Gene_Symbol=RPL23A;hCG.16001 60S ribosomal protein L23a	158	17684	15	44.9
271	IPI00215780	Tax_Id=9606 Gene_Symbol=RPS19 40S ribosomal protein S19	157	16051	9	44.1
272	IPI00872387	Tax_Id=9606 Gene_Symbol=- Uncharacterized protein ENSP00000381447 (Fragment)	156	32455	14	32.2
273	IPI00736859	Tax_Id=9606 Gene_Symbol=HNRNPUL1 Isoform 4 of Heterogeneous nuclear ribonucleoprotein U-like protein 1	156	85311	16	17.6
274	IPI00009771	Tax_Id=9606 Gene_Symbol=LMNB2 Lamin-B2	156	70020	10	17.3
275	IPI00020599	Tax_Id=9606 Gene_Symbol=CALR Calreticulin	155	48283	10	26.4
276	IPI00448630	Tax_Id=9606 Gene_Symbol=SARM1 Isoform 1 of Sterile alpha and TIR motif-containing protein 1	155	80365	5	7.2
277	IPI00293757	Tax_Id=9606 Gene_Symbol=UNC5C Isoform 1 of Netrin receptor UNC5C	155	104918	8	7.6
278	IPI00008527	Tax_Id=9606 Gene_Symbol=RPLP1 60S acidic ribosomal protein P1	155	11621	12	71.9

279	IPI00011916	Tax_Id=9606 Gene_Symbol=JTV1 Multisynthetase complex auxiliary component p38	154	35668	5	13.1
280	IPI00011274	Tax_Id=9606 Gene_Symbol=HNRPDL Isoform 1 of Heterogeneous nuclear ribonucleoprotein D-like	154	46580	13	26.2
281	IPI00018522	Tax_Id=9606 Gene_Symbol=PRMT1 HMT1 hnRNP methyltransferase-like 2 isoform 1	153	43061	5	13.7
282	IPI00008728	Tax_Id=9606 Gene_Symbol=CLPX ATP-dependent Clp protease ATP-binding subunit clpX-like, mitochondrial	153	69922	12	14.1
283	IPI00004860	Tax_Id=9606 Gene_Symbol=RARS Isoform Complexed of Arginyl-tRNA synthetase, cytoplasmic	153	76129	7	10.9
284	IPI00550239	Tax_Id=9606 Gene_Symbol=H1F0 Histone H1.0	153	20850	6	21.1
285	IPI00303207	Tax_Id=9606 Gene_Symbol=ABCE1 ATP-binding cassette subfamily E member 1	152	68240	11	15.9
286	IPI00016891	Tax_Id=9606 Gene_Symbol=RAB6B Ras-related protein Rab-6B	151	23561	10	21.2
287	IPI00027481	Tax_Id=9606 Gene_Symbol=ABCB1 Multidrug resistance protein 1	151	141772	11	9.6
288	IPI00024364	Tax_Id=9606 Gene_Symbol=TNPO1 transportin 1 isoform 1	151	103771	4	4.3
289	IPI00028481	Tax_Id=9606 Gene_Symbol=RAB8A Ras-related protein Rab-8A	151	23824	12	30.4
290	IPI00003406	Tax_Id=9606 Gene_Symbol=DBN1 Isoform 1 of Drebrin	150	71838	5	10.8
291	IPI00554752	Tax_Id=9606 Gene_Symbol=PRKAR2B cAMP-dependent protein kinase type II-beta regulatory subunit	150	46716	3	5.5
292	IPI00016014	Tax_Id=9606 Gene_Symbol=ITM2C Isoform 1 of Integral membrane protein 2C	150	30547	3	9
293	IPI00171611	Tax_Id=9606 Gene_Symbol=HIST2H3D;HIST2H3C;HIST2H3A Histone H3.2	150	15436	25	47.8
294	IPI00021700	Tax_Id=9606 Gene_Symbol=PCNA Proliferating cell nuclear antigen	148	29092	7	25.3
295	IPI00014266	Tax_Id=9606 Gene_Symbol=BRD3 Isoform 1 of Bromodomain-containing protein 3	147	79777	9	14.5
296	IPI00007001	Tax_Id=9606 Gene_Symbol=MRPL11 39S ribosomal protein L11, mitochondrial	147	20727	6	19.3
297	IPI00465028	Tax_Id=9606 Gene_Symbol=TPI1 Isoform 1 of Triosephosphate isomerase	146	31057	5	20.3
298	IPI00005158	Tax_Id=9606 Gene_Symbol=LONP1 Lon protease homolog, mitochondrial	146	106936	13	14.2
299	IPI00644127	Tax_Id=9606 Gene_Symbol=IARS Isoleucyl-tRNA synthetase, cytoplasmic	145	146178	10	6.2
300	IPI00816796	Tax_Id=9606 Gene_Symbol=RBMX cDNA FLJ38696 fis, clone KIDNE2001931, highly similar to HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN G	143	40822	11	20.9
301	IPI00014577	Tax_Id=9606 Gene_Symbol=RAB18 Ras-related protein Rab-18	142	23248	8	27.7
302	IPI00023860	Tax_Id=9606 Gene_Symbol=NAP1L1 Nucleosome assembly protein 1-like 1	141	45631	9	17.6
303	IPI00411937	Tax_Id=9606 Gene_Symbol=NOL5A Nucleolar protein 5A	141	66408	11	16.5
304	IPI00021924	Tax_Id=9606 Gene_Symbol=H1FX Histone H1x	141	22474	10	26.8
305	IPI00302925	Tax_Id=9606 Gene_Symbol=CCT8 59 kDa protein	141	60011	10	17.9

306	IPI00465361	Tax_Id=9606 Gene_Symbol=RPL13 60S ribosomal protein L13	140	24304	16	37.9
307	IPI00297261	Tax_Id=9606 Gene_Symbol=PTPN1 Tyrosine-protein phosphatase non-receptor type 1	139	50505	7	17.2
308	IPI00376798	Tax_Id=9606 Gene_Symbol=RPL11 Isoform 1 of 60S ribosomal protein L11	139	20468	9	36
309	IPI00298961	Tax_Id=9606 Gene_Symbol=XPO1 Exportin-1	139	124447	6	5
310	IPI00011200	Tax_Id=9606 Gene_Symbol=PHGDH D-3-phosphoglycerate dehydrogenase	139	57356	7	14.8
311	IPI00642816	Tax_Id=9606 Gene_Symbol=SRP9;hCG_1781062 Signal recognition particle 9 kDa protein	139	10219	5	45.3
312	IPI00397904	Tax_Id=9606 Gene_Symbol=NUP93 Nuclear pore complex protein Nup93	138	93943	9	12.2
313	IPI00027146	Tax_Id=9606 Gene_Symbol=GLUD2 Glutamate dehydrogenase 2, mitochondrial	138	61738	9	12
314	IPI00216088	Tax_Id=9606 Gene_Symbol=CRABP2 Cellular retinoic acid-binding protein 2	138	15854	4	23.2
315	IPI00477150	Tax_Id=9606 Gene_Symbol=HNRNPD 36 kDa protein	138	36613	10	24.5
316	IPI00337736	Tax_Id=9606 Gene_Symbol=KTN1 Isoform 2 of Kinectin	138	149804	15	10.6
317	IPI00009865	Tax_Id=9606 Gene_Symbol=KRT10 Keratin, type I cytoskeletal 10	137	59703	5	7.6
318	IPI00291579	Tax_Id=9606 Gene_Symbol=KIF23 Isoform 1 of Kinesin-like protein KIF23	136	111016	15	18.3
319	IPI00006663	Tax_Id=9606 Gene_Symbol=ALDH2 Aldehyde dehydrogenase, mitochondrial	136	56859	6	14.3
320	IPI00291510	Tax_Id=9606 Gene_Symbol=IMPDH2 Inosine-5 -monophosphate dehydrogenase 2	136	56226	10	21.2
321	IPI00031461	Tax_Id=9606 Gene_Symbol=GDI2 Rab GDP dissociation inhibitor beta	135	51087	10	27.6
322	IPI00719622	Tax_Id=9606 Gene_Symbol=RPS28 40S ribosomal protein S28	135	7893	7	56.5
323	IPI00029629	Tax_Id=9606 Gene_Symbol=TRIM25 Tripartite motif-containing protein 25	135	72597	9	13
324	IPI00008708	Tax_Id=9606 Gene_Symbol=RSL1D1 Ribosomal L1 domain-containing protein 1	134	55167	5	11.6
325	IPI00025815	Tax_Id=9606 Gene_Symbol=TARDBP TDP43	134	45305	5	9.9
326	IPI00021187	Tax_Id=9606 Gene_Symbol=RUVBL1 Isoform 1 of RuvB-like 1	133	50538	7	16.7
327	IPI00413641	Tax_Id=9606 Gene_Symbol=AKR1B1 Aldose reductase	133	36230	7	25.9
328	IPI00215637	Tax_Id=9606 Gene_Symbol=DDX3X ATP-dependent RNA helicase DDX3X	133	73597	16	16.3
329	IPI00642042	Tax_Id=9606 Gene_Symbol=TPM3 Putative uncharacterized protein DKFZp686J1372	132	27386	6	29.3
330	IPI00394788	Tax_Id=9606 Gene_Symbol=AARS2 Probable alanyl-tRNA synthetase, mitochondrial	132	108299	8	7.6
331	IPI00010415	Tax_Id=9606 Gene_Symbol=ACOT7 Isoform 1 of Cytosolic acyl coenzyme A thioester hydrolase	132	42454	6	14.5
332	IPI00179589	Tax_Id=9606 Gene_Symbol=MTPN Myotrophin	131	14508	5	37.7

333	IPI00304655	Tax_Id=9606 Gene_Symbol=KIAA1712 Uncharacterized protein KIAA1712	131	44625	2	6.9
334	IPI00186712	Tax_Id=9606 Gene_Symbol=RPS26 Ribosomal protein 26 (RPS26) pseudogene	130	13278	8	37.4
335	IPI00413108	Tax_Id=9606 Gene_Symbol=RPSA 33 kDa protein	130	33464	7	27.3
336	IPI00217232	Tax_Id=9606 Gene_Symbol=SUCLA2 Isoform 2 of Succinyl-CoA ligase [ADP-forming] subunit beta, mitochondrial	130	48351	6	15.2
337	IPI00012048	Tax_Id=9606 Gene_Symbol=NME1;NME2 Nucleoside diphosphate kinase A	129	17309	7	38.2
338	IPI00021840	Tax_Id=9606 Gene_Symbol=RPS6 40S ribosomal protein S6	129	28834	10	29.7
339	IPI00887504	Tax_Id=9606 Gene_Symbol=LOC653665 similar to mCG4465, partial	128	19034	17	35
340	IPI00328361	Tax_Id=9606 Gene_Symbol=SARS2 Seryl-tRNA synthetase, mitochondrial	128	58702	7	15.3
341	IPI00019580	Tax_Id=9606 Gene_Symbol=PLG Plasminogen	128	93247	5	6.7
342	IPI00021435	Tax_Id=9606 Gene_Symbol=PSMC2 26S protease regulatory subunit 7	127	49002	11	33.9
343	IPI00018398	Tax_Id=9606 Gene_Symbol=PSMC3 26S protease regulatory subunit 6A	127	49458	12	20.3
344	IPI00299301	Tax_Id=9606 Gene_Symbol=DMN Isoform 1 of Desmuslin	127	173005	12	7.4
345	IPI00789806	Tax_Id=9606 Gene_Symbol=LAP3 Isoform 2 of Cytosol aminopeptidase	127	53137	8	21.3
346	IPI00017855	Tax_Id=9606 Gene_Symbol=ACO2 Aconitate hydratase, mitochondrial	126	86113	7	9.2
347	IPI00791265	Tax_Id=9606 Gene_Symbol=RPS20 7 kDa protein	126	6881	6	42.6
348	IPI00012462	Tax_Id=9606 Gene_Symbol=EIF2A Eukaryotic translation initiation factor 2A	126	68436	6	9.5
349	IPI00219913	Tax_Id=9606 Gene_Symbol=USP14 Ubiquitin carboxyl-terminal hydrolase 14	126	56489	7	13
350	IPI00216319	Tax_Id=9606 Gene_Symbol=YWHAH 14-3-3 protein eta	125	28372	8	34.1
351	IPI00013214	Tax_Id=9606 Gene_Symbol=MCM3 DNA replication licensing factor MCM3	125	91551	10	10.3
352	IPI00022793	Tax_Id=9606 Gene_Symbol=HADHB Trifunctional enzyme subunit beta, mitochondrial	125	51547	11	18.6
353	IPI00024664	Tax_Id=9606 Gene_Symbol=USP5 Isoform Long of Ubiquitin carboxyl-terminal hydrolase 5	124	96638	6	8.7
354	IPI00453476	Tax_Id=9606 Gene_Symbol=- Uncharacterized protein ENSP00000348237	123	29003	7	25.2
355	IPI00031812	Tax_Id=9606 Gene_Symbol=YBX1 Nuclease-sensitive element-binding protein 1	123	35903	3	20.1
356	IPI00220076	Tax_Id=9606 Gene_Symbol=DCX Isoform 2 of Neuronal migration protein doublecortin	122	40304	4	15.6
357	IPI00465233	Tax_Id=9606 Gene_Symbol=EIF3EIP Eukaryotic translation initiation factor 3, subunit E interacting protein	122	71085	2	2.1
358	IPI00216237	Tax_Id=9606 Gene_Symbol=RPL36 60S ribosomal protein L36	122	12303	10	26.7
359	IPI00007188	Tax_Id=9606 Gene_Symbol=SLC25A5 ADP/ATP translocase 2	122	33102	4	13.1

360	IPI00019996	Tax_Id=9606 Gene_Symbol=SLTM modulator of estrogen induced transcription isoform b	121	115625	11	10.1
361	IPI00217223	Tax_Id=9606 Gene_Symbol=PAICS Multifunctional protein ADE2	121	50389	5	11.3
362	IPI00011603	Tax_Id=9606 Gene_Symbol=PSMD3 26S proteasome non-ATPase regulatory subunit 3	120	61054	11	17.8
363	IPI00026497	Tax_Id=9606 Gene_Symbol=PARP2 Isoform 1 of Poly [ADP-ribose] polymerase 2	119	66734	5	9.8
364	IPI00023555	Tax_Id=9606 Gene_Symbol=OSBPL3 Isoform 1a of Oxysterol-binding protein-related protein 3	119	102130	6	8.6
365	IPI00872531	Tax_Id=9606 Gene_Symbol=- Uncharacterized protein ENSP00000383556	119	23439	6	28.3
366	IPI00879051	Tax_Id=9606 Gene_Symbol=- 15 kDa protein	119	15040	9	45.7
367	IPI00646491	Tax_Id=9606 Gene_Symbol=GNAS Isoform XLas-2 of Guanine nucleotide-binding protein G(s) subunit alpha isoforms XLas	119	110299	11	11.6
368	IPI00000001	Tax_Id=9606 Gene_Symbol=STAU1 Isoform Long of Double-stranded RNA-binding protein Staufen homolog 1	118	63428	9	19.4
369	IPI00006213	Tax_Id=9606 Gene_Symbol=PCM1 pericentriolar material 1	118	230073	17	9.5
370	IPI00009010	Tax_Id=9606 Gene_Symbol=HSPC152 TRM112-like protein	117	14304	2	22.4
371	IPI00000877	Tax_Id=9606 Gene_Symbol=HYOU1 Hypoxia up-regulated protein 1	117	111494	12	15.6
372	IPI00411733	Tax_Id=9606 Gene_Symbol=DHX30 Isoform 1 of Putative ATP-dependent RNA helicase DHX30	117	134938	12	8
373	IPI00001636	Tax_Id=9606 Gene_Symbol=ATXN10 Ataxin-10	117	54196	7	14.3
374	IPI00179964	Tax_Id=9606 Gene_Symbol=PTBP1 Isoform 1 of Polypyrimidine tract-binding protein 1	116	57357	6	9.4
375	IPI00014835	Tax_Id=9606 Gene_Symbol=MRPS9 mitochondrial ribosomal protein S9	116	46034	4	6.3
376	IPI00014253	Tax_Id=9606 Gene_Symbol=RRS1 Ribosome biogenesis regulatory protein homolog	116	41225	7	26.8
377	IPI00026271	Tax_Id=9606 Gene_Symbol=RPS14 40S ribosomal protein S14	116	16434	7	41.1
378	IPI00019359	Tax_Id=9606 Gene_Symbol=KRT9 Keratin, type I cytoskeletal 9	116	62320	3	11.9
379	IPI00783097	Tax_Id=9606 Gene_Symbol=GARS Glycyl-tRNA synthetase	115	83828	7	10.8
380	IPI00418234	Tax_Id=9606 Gene_Symbol=MECP2 Isoform A of Methyl-CpG-binding protein 2	114	52580	12	20.4
381	IPI00003309	Tax_Id=9606 Gene_Symbol=POLR2H DNA-directed RNA polymerases I, II, and III subunit RPABC3	114	17189	5	32.7
382	IPI00006379	Tax_Id=9606 Gene_Symbol=NOP5/NOP58 Nucleolar protein 5	114	60054	8	15.9
383	IPI00021304	Tax_Id=9606 Gene_Symbol=KRT2 Keratin, type II cytoskeletal 2 epidermal	114	66110	6	8.7
384	IPI00027350	Tax_Id=9606 Gene_Symbol=PRDX2 Peroxiredoxin-2	113	22049	5	14.6
385	IPI00843773	Tax_Id=9606 Gene_Symbol=RBM39 Putative uncharacterized protein DKFZp686A11192	113	40744	5	15.5
386	IPI00000897	Tax_Id=9606 Gene_Symbol=HELZ Probable helicase with zinc finger domain	113	220602	7	4

387	IPI00719549	Tax_Id=9606 Gene_Symbol=RBM14 Transcriptional coactivator CoAZ	112	37410	6	29.5
388	IPI00793409	Tax_Id=9606 Gene_Symbol=ACACA 265 kDa protein	112	266895	15	6.9
389	IPI00177716	Tax_Id=9606 Gene_Symbol=HMGA1 Isoform HMG-Y of High mobility group protein HMG-I/HMG-Y	111	10673	6	56.3
390	IPI00005668	Tax_Id=9606 Gene_Symbol=AKR1C2 Aldo-keto reductase family 1 member C2	111	37111	10	26.3
391	IPI00215918	Tax_Id=9606 Gene_Symbol=ARF4 ADP-ribosylation factor 4	111	20612	3	21.7
392	IPI00002520	Tax_Id=9606 Gene_Symbol=SHMT2 Serine hydroxymethyltransferase, mitochondrial	111	56414	5	9.5
393	IPI00029048	Tax_Id=9606 Gene_Symbol=TTLL12 Tubulin-tyrosine ligase-like protein 12	111	75154	4	5.4
394	IPI00246975	Tax_Id=9606 Gene_Symbol=GSTM3 Glutathione S-transferase Mu 3	111	26998	10	33.8
395	IPI00221091	Tax_Id=9606 Gene_Symbol=RPS15A 40S ribosomal protein S15a	110	14944	8	26.2
396	IPI00182938	Tax_Id=9606 Gene_Symbol=AHCYL1 Isoform 1 of Putative adenosylhomocysteinase 2	110	59997	8	19.2
397	IPI00013174	Tax_Id=9606 Gene_Symbol=RBM14 Isoform 1 of RNA-binding protein 14	110	69620	5	7.8
398	IPI00019502	Tax_Id=9606 Gene_Symbol=MYH9 Myosin-9	110	227646	20	10.4
399	IPI00550689	Tax_Id=9606 Gene_Symbol=C22orf28 UPF0027 protein C22orf28	110	55688	6	9.9
400	IPI00738042	Tax_Id=9606 Gene_Symbol=LOC652826 similar to 26S proteasome ATPase subunit	109	47102	4	11.4
401	IPI00220994	Tax_Id=9606 Gene_Symbol=H2AFY2 Core histone macro-H2A.2	109	40261	6	10.2
402	IPI00219217	Tax_Id=9606 Gene_Symbol=LDHB L-lactate dehydrogenase B chain	108	36900	6	18
403	IPI00412607	Tax_Id=9606 Gene_Symbol=RPL35 60S ribosomal protein L35	108	14543	6	37.4
404	IPI00027252	Tax_Id=9606 Gene_Symbol=PHB2 Prohibitin-2	107	33276	7	23.4
405	IPI00026302	Tax_Id=9606 Gene_Symbol=RPL31 60S ribosomal protein L31	107	14454	6	19.2
406	IPI00013468	Tax_Id=9606 Gene_Symbol=BUB3 Mitotic checkpoint protein BUB3	107	37587	6	14.3
407	IPI00024403	Tax_Id=9606 Gene_Symbol=CPNE3 Copine-3	107	60947	3	4.1
408	IPI00025512	Tax_Id=9606 Gene_Symbol=HSPB1 Heat shock protein beta-1	107	22826	5	21
409	IPI00785023	Tax_Id=9606 Gene_Symbol=SRRM2 Isoform 2 of Serine/arginine repetitive matrix protein 2	106	257122	20	8.7
410	IPI00399212	Tax_Id=9606 Gene_Symbol=LOC389842 similar to RanBP1	106	23508	3	13.4
411	IPI00004968	Tax_Id=9606 Gene_Symbol=PRPF19 Pre-mRNA-processing factor 19	105	55603	4	7.1
412	IPI00221092	Tax_Id=9606 Gene_Symbol=RPS16 40S ribosomal protein S16	105	16549	8	37
413	IPI00430812	Tax_Id=9606 Gene_Symbol=CNBP Isoform 1 of Cellular nucleic acid-binding protein	105	20704	3	15.3
414	IPI00024175	Tax_Id=9606 Gene_Symbol=PSMA7 Isoform 1 of Proteasome subunit alpha type-7	105	28041	3	9.3
415	IPI00000875	Tax_Id=9606 Gene_Symbol=EEF1G Elongation factor 1-gamma	105	50429	3	6.2
416	IPI00029744	Tax_Id=9606 Gene_Symbol=SSBP1 Single-stranded DNA-binding protein, mitochondrial	105	17249	2	10.1

417	IPI00037283	Tax_Id=9606 Gene_Symbol=DNM1L Isoform 5 of Dynamin-1-like protein	104	79573	7	12.4
418	IPI00215888	Tax_Id=9606 Gene_Symbol=SRP72 Signal recognition particle 72 kDa protein	104	75130	15	8.9
419	IPI00010154	Tax_Id=9606 Gene_Symbol=GDI1 Rab GDP dissociation inhibitor alpha	104	51177	8	23.7
420	IPI00005179	Tax_Id=9606 Gene_Symbol=POLR1C Isoform 1 of DNA-directed RNA polymerases I and III subunit RPAC1	104	39453	2	8.7
421	IPI00184330	Tax_Id=9606 Gene_Symbol=MCM2 DNA replication licensing factor MCM2	104	102516	8	7.9
422	IPI00012750	Tax_Id=9606 Gene_Symbol=RPS25 40S ribosomal protein S25	104	13791	5	23.2
423	IPI00219718	Tax_Id=9606 Gene_Symbol=RBP1 Retinol-binding protein I, cellular	103	22524	5	11.2
424	IPI00644431	Tax_Id=9606 Gene_Symbol=DDX39 ATP-dependent RNA helicase DDX39	102	49611	8	11.5
425	IPI00218606	Tax_Id=9606 Gene_Symbol=RPS23 40S ribosomal protein S23	102	15969	10	43.4
426	IPI00002375	Tax_Id=9606 Gene_Symbol=TMOD1 Tropomodulin-1	101	40658	3	9.7
427	IPI00008380	Tax_Id=9606 Gene_Symbol=PPP2CA Serine/threonine-protein phosphatase 2A catalytic subunit alpha isoform	101	36142	3	4.9
428	IPI00003704	Tax_Id=9606 Gene_Symbol=RBM4 Isoform 1 of RNA-binding protein 4	101	40688	6	21.7
429	IPI00328840	Tax_Id=9606 Gene_Symbol=THOC4 THO complex subunit 4	101	27541	7	15.9
430	IPI00555956	Tax_Id=9606 Gene_Symbol=PSMB4 Proteasome subunit beta type-4	101	29242	1	7.6
431	IPI00021016	Tax_Id=9606 Gene_Symbol=TSFM Isoform 1 of Elongation factor Ts, mitochondrial	100	35710	3	9.2
432	IPI00156689	Tax_Id=9606 Gene_Symbol=VAT1 Synaptic vesicle membrane protein VAT-1 homolog	100	42122	5	13.5
433	IPI00014151	Tax_Id=9606 Gene_Symbol=PSMD6 26S proteasome non-ATPase regulatory subunit 6	99	45787	4	9.8
434	IPI00021831	Tax_Id=9606 Gene_Symbol=PRKAR1A cAMP-dependent protein kinase type I-alpha regulatory subunit	99	43183	5	11.5
435	IPI00305166	Tax_Id=9606 Gene_Symbol=SDHA Succinate dehydrogenase [ubiquinone] flavoprotein subunit, mitochondrial	99	73672	8	15.4
436	IPI00002214	Tax_Id=9606 Gene_Symbol=LOC728860;KPNA2 Importin subunit alpha-2	98	58168	4	11.2
437	IPI00395627	Tax_Id=9606 Gene_Symbol=CACYBP Isoform 1 of Calcyclin-binding protein	98	26308	8	23.7
438	IPI00420014	Tax_Id=9606 Gene_Symbol=ASCC3L1 Isoform 1 of U5 small nuclear ribonucleoprotein 200 kDa helicase	97	246006	12	4.6
439	IPI00014238	Tax_Id=9606 Gene_Symbol=KARS Lysyl-tRNA synthetase	97	68461	9	13.9
440	IPI00002134	Tax_Id=9606 Gene_Symbol=PSMD5 26S proteasome non-ATPase regulatory subunit 5	97	56560	4	8.5
441	IPI00260715	Tax_Id=9606 Gene_Symbol=FUS Fus-like protein (Fragment)	97	53573	8	19.9
442	IPI00034049	Tax_Id=9606 Gene_Symbol=UPF1 Isoform 1 of Regulator of non-sense transcripts 1	97	125578	5	5.2

443	IPI00018931	Tax_Id=9606 Gene_Symbol=VPS35 Vacuolar protein sorting-associated protein 35	97	92447	4	5.7
444	IPI00855984	Tax_Id=9606 Gene_Symbol=ODF2 Isoform 2 of Outer dense fiber protein 2	96	89151	16	20.6
445	IPI00155601	Tax_Id=9606 Gene_Symbol=MACROD1 MACRO domain-containing protein 1	95	35996	4	13.2
446	IPI00010463	Tax_Id=9606 Gene_Symbol=GTPBP1 GTP-binding protein 1	95	73035	3	4.5
447	IPI00302850	Tax_Id=9606 Gene_Symbol=SNRPD1 Small nuclear ribonucleo-protein Sm D1	95	13273	3	22.7
448	IPI00232806	Tax_Id=9606 Gene_Symbol=SMC2 structural maintenance of chromosomes 2-like 1	95	136085	21	13.3
449	IPI00219678	Tax_Id=9606 Gene_Symbol=EIF2S1 Eukaryotic translation initiation factor 2 subunit 1	95	36374	3	11.4
450	IPI00895958	Tax_Id=9606 Gene_Symbol=- Tyrosine-protein kinase receptor	95	147055	8	6.6
451	IPI00018349	Tax_Id=9606 Gene_Symbol=MCM4 DNA replication licensing factor MCM4	93	97068	7	7.4
452	IPI00759493	Tax_Id=9606 Gene_Symbol=SUCLG1 succinate-CoA ligase, GDP-forming, alpha subunit	93	36626	3	9.8
453	IPI00023919	Tax_Id=9606 Gene_Symbol=PSMC5 26S protease regulatory subunit 8	92	45768	13	25.4
454	IPI00788131	Tax_Id=9606 Gene_Symbol=HMGN1 Uncharacterized protein ENSP00000368252	92	10615	4	41
455	IPI00007074	Tax_Id=9606 Gene_Symbol=YARS Tyrosyl-tRNA synthetase, cytoplasmic	91	59448	4	8.3
456	IPI00289862	Tax_Id=9606 Gene_Symbol=SCRN1 Secernin-1	91	46980	3	9.7
457	IPI00004560	Tax_Id=9606 Gene_Symbol=DCLK1 Isoform 2 of Serine/threonine-protein kinase DCLK1	91	82743	3	5.4
458	IPI00301109	Tax_Id=9606 Gene_Symbol=PPA2 Isoform 1 of Inorganic pyrophosphatase 2, mitochondrial	90	38409	6	21.6
459	IPI00010796	Tax_Id=9606 Gene_Symbol=P4HB Protein disulfide-isomerase	90	57480	2	2.4
460	IPI00026087	Tax_Id=9606 Gene_Symbol=BANF1 Barrier-to-autointegration factor	90	10280	7	76.4
461	IPI00008438	Tax_Id=9606 Gene_Symbol=RPS10 40S ribosomal protein S10	90	18886	7	24.8
462	IPI00010136	Tax_Id=9606 Gene_Symbol=CTBP2 Isoform 2 of C-terminal-binding protein 2	90	106748	5	2.3
463	IPI00643920	Tax_Id=9606 Gene_Symbol=TKT Transketolase	89	68519	3	9.1
464	IPI00029631	Tax_Id=9606 Gene_Symbol=ERH Enhancer of rudimentary homolog	89	12422	1	16.3
465	IPI00006252	Tax_Id=9606 Gene_Symbol=SCYE1 Multisynthetase complex auxiliary component p43	89	34616	8	22.4
466	IPI00333763	Tax_Id=9606 Gene_Symbol=GLRX5 Glutaredoxin-related protein 5	89	16732	1	8.9
467	IPI00040897	Tax_Id=9606 Gene_Symbol=LOC119358 similar to hCG2040270	87	13532	6	23.1
468	IPI00165486	Tax_Id=9606 Gene_Symbol=LOC100130562 hypothetical protein isoform 1	87	31704	12	34.8

469	IPI00217474	Tax_Id=9606 Gene_Symbol=IFI16 Isoform 2 of Gamma-interferon-inducible protein Ifi-16	87	82500	8	9.3
470	IPI00017596	Tax_Id=9606 Gene_Symbol=MAPRE1 Microtubule-associated protein RP/EB family member 1	87	30151	3	14.6
471	IPI00022334	Tax_Id=9606 Gene_Symbol=OAT Ornithine aminotransferase, mitochondrial	86	48846	7	15.9
472	IPI00019733	Tax_Id=9606 Gene_Symbol=RAE1 mRNA export factor	85	41569	4	11.4
473	IPI00790636	Tax_Id=9606 Gene_Symbol=BAT1 HLA-B associated transcript 1	85	49478	11	28.2
474	IPI00101163	Tax_Id=9606 Gene_Symbol=MTERFD1 Isoform 1 of mTERF domain-containing protein 1, mitochondrial	85	48055	1	3.6
475	IPI00107555	Tax_Id=9606 Gene_Symbol=PFN2 Isoform IIb of Profilin-2	85	15421	5	21.4
476	IPI00013949	Tax_Id=9606 Gene_Symbol=SGTA Small glutamine-rich tetratricopeptide repeat-containing protein alpha	85	34270	5	13.1
477	IPI00166749	Tax_Id=9606 Gene_Symbol=PMPCA Mitochondrial-processing peptidase subunit alpha	85	58729	4	6.7
478	IPI00216951	Tax_Id=9606 Gene_Symbol=DARS Aspartyl-tRNA synthetase, cytoplasmic	84	57499	8	20.6
479	IPI00299608	Tax_Id=9606 Gene_Symbol=PSMD1 Isoform 1 of 26S proteasome non-ATPase regulatory subunit 1	84	106795	9	8.7
480	IPI00006181	Tax_Id=9606 Gene_Symbol=EIF3D Eukaryotic translation initiation factor 3 subunit D	84	64560	3	5.8
481	IPI00020127	Tax_Id=9606 Gene_Symbol=RPA1 Replication protein A 70 kDa DNA-binding subunit	84	68723	9	16.9
482	IPI00299977	Tax_Id=9606 Gene_Symbol=PHPT1 14 kDa phosphohistidine phosphatase	84	13995	2	18.4
483	IPI00003925	Tax_Id=9606 Gene_Symbol=PDHB Isoform 1 of Pyruvate dehydrogenase E1 component subunit beta, mitochondrial	84	39550	6	13.9
484	IPI00375527	Tax_Id=9606 Gene_Symbol=IMPDH1 inosine monophosphate dehydrogenase 1 isoform a	84	64678	10	14.9
485	IPI00398983	Tax_Id=9606 Gene_Symbol=RP11-365K22.1 Novel protein similar to ribosomal protein L13a RPL13A	83	23508	9	26.6
486	IPI00015077	Tax_Id=9606 Gene_Symbol=EIF1 Eukaryotic translation initiation factor 1	83	12839	1	12.4
487	IPI00013212	Tax_Id=9606 Gene_Symbol=CSK Tyrosine-protein kinase CSK	83	51242	8	20.9
488	IPI00005040	Tax_Id=9606 Gene_Symbol=ACADM Medium-chain specific acyl-CoA dehydrogenase, mitochondrial	83	47015	2	4.8
489	IPI00855998	Tax_Id=9606 Gene_Symbol=CENPF Centromere protein F	83	370844	27	8.5
490	IPI00022269	Tax_Id=9606 Gene_Symbol=CBY1 Protein Chibby	83	19446	2	7.1
491	IPI00163084	Tax_Id=9606 Gene_Symbol=XAB2 Pre-mRNA-splicing factor SYF1	83	100745	10	10.2
492	IPI00746777	Tax_Id=9606 Gene_Symbol=ADH5 Alcohol dehydrogenase class-3	83	40554	7	23.3
493	IPI00176469	Tax_Id=9606 Gene_Symbol=CABC1 Isoform 1 of Chaperone activity of bc1 complex-like, mitochondrial	83	72418	7	7.4

494	IPI00103142	Tax_Id=9606 Gene_Symbol=NUDCD2 NudC domain-containing protein 2	82	17836	2	7
495	IPI00022744	Tax_Id=9606 Gene_Symbol=CSE1L Isoform 1 of Exportin-2	82	111145	5	5.5
496	IPI00020984	Tax_Id=9606 Gene_Symbol=CANX Calnexin	82	67982	6	9
497	IPI00642211	Tax_Id=9606 Gene_Symbol=RNPEP Aminopeptidase B	81	74192	4	8.2
498	IPI00413324	Tax_Id=9606 Gene_Symbol=LOC100133240;RPL17;LOC10013393 60S ribosomal protein L17	81	21611	6	22.8
499	IPI00218667	Tax_Id=9606 Gene_Symbol=STMN2 Stathmin-2	81	20929	4	16.2
500	IPI00478231	Tax_Id=9606 Gene_Symbol=RHOA Transforming protein RhoA	81	22096	8	19.7
501	IPI00843996	Tax_Id=9606 Gene_Symbol=SFRS3 14 kDa protein	81	14422	4	29
502	IPI00031169	Tax_Id=9606 Gene_Symbol=RAB2A Ras-related protein Rab-2A	80	23702	3	22.2
503	IPI00291200	Tax_Id=9606 Gene_Symbol=NUP133 Nuclear pore complex protein Nup133	80	129924	2	1.8
504	IPI00215884	Tax_Id=9606 Gene_Symbol=SFRS1 Isoform ASF-1 of Splicing factor, arginine/serine-rich 1	80	27842	8	21.4
505	IPI00298625	Tax_Id=9606 Gene_Symbol=LYN Isoform LYN A of Tyrosine-protein kinase Lyn	80	58993	7	7
506	IPI00329038	Tax_Id=9606 Gene_Symbol=CDK5RAP2 Isoform 1 of CDK5 regulatory subunit-associated protein 2	80	216430	13	6.8
507	IPI00028275	Tax_Id=9606 Gene_Symbol=CKAP5 Cytoskeleton-associated protein 5	80	227076	19	9.4
508	IPI00007928	Tax_Id=9606 Gene_Symbol=PRPF8 Pre-mRNA-processing-splicing factor 8	79	274738	14	7.3
509	IPI00220219	Tax_Id=9606 Gene_Symbol=COPB2 Coatomer subunit beta	79	103278	6	7
510	IPI00794643	Tax_Id=9606 Gene_Symbol=RAE1 RAE1 RNA export 1 homolog	79	9266	2	23
511	IPI00295992	Tax_Id=9606 Gene_Symbol=ATAD3A Isoform 2 of ATPase family AAA domain-containing protein 3A	79	66291	6	7.2
512	IPI00011454	Tax_Id=9606 Gene_Symbol=GANAB Isoform 2 of Neutral alpha-glucosidase AB	79	109825	5	5.3
513	IPI00216153	Tax_Id=9606 Gene_Symbol=RPS15 40S ribosomal protein S15	79	17029	5	30.3
514	IPI00013871	Tax_Id=9606 Gene_Symbol=RRM1 Ribonucleoside-diphosphate reductase large subunit	79	90925	13	13.1
515	IPI00384571	Tax_Id=9606 Gene_Symbol=MRPL43 MRPL43 protein (Fragment)	78	16236	3	16.6
516	IPI00005490	Tax_Id=9606 Gene_Symbol=GOLPH3 Golgi phosphoprotein 3	78	34075	2	7
517	IPI00006608	Tax_Id=9606 Gene_Symbol=APP Isoform APP770 of Amyloid beta A4 protein (Fragment)	78	87914	3	4.5
518	IPI00792971	Tax_Id=9606 Gene_Symbol=IDH3A Isoform 2 of Isocitrate dehydrogenase [NAD] subunit alpha, mitochondrial	78	31817	6	19.8
519	IPI00219616	Tax_Id=9606 Gene_Symbol=PRPS1 Ribose-phosphate pyrophosphokinase 1	78	35325	2	7.2
520	IPI00386418	Tax_Id=9606 Gene_Symbol=MYEF2 Isoform 2 of Myelin expression factor 2	78	62176	10	20.7
521	IPI00175193	Tax_Id=9606 Gene_Symbol=KIF4B Chromosome-associated kinesin KIF4B	77	141829	8	5.7

522	IPI00022774	Tax_Id=9606 Gene_Symbol=VCP Transitional endoplasmic reticulum ATPase	77	89950	8	11.9
523	IPI00305068	Tax_Id=9606 Gene_Symbol=PRPF6 Pre-mRNA-processing factor 6	77	107656	9	8.1
524	IPI00024993	Tax_Id=9606 Gene_Symbol=ECHS1 Enoyl-CoA hydratase, mitochondrial	77	31823	2	7.9
525	IPI00185374	Tax_Id=9606 Gene_Symbol=PSMD12 26S proteasome non-ATPase regulatory subunit 12	77	53270	10	21.7
526	IPI00219067	Tax_Id=9606 Gene_Symbol=GSTM2 Glutathione S-transferase Mu 2	77	25899	6	18.8
527	IPI00305289	Tax_Id=9606 Gene_Symbol=KIF11 Kinesin-like protein KIF11	77	120111	9	7
528	IPI00900276	Tax_Id=9606 Gene_Symbol=SYNPO2 synaptopodin 2 isoform c	76	119855	8	8.1
529	IPI00221394	Tax_Id=9606 Gene_Symbol=DKC1 H/ACA ribonucleoprotein complex subunit 4	76	58094	3	8.9
530	IPI00304435	Tax_Id=9606 Gene_Symbol=NIPSNAP1 Protein NipSnap homolog 1	76	33460	2	8.1
531	IPI00030357	Tax_Id=9606 Gene_Symbol=DHFR Dihydrofolate reductase	76	21496	4	23.5
532	IPI00012268	Tax_Id=9606 Gene_Symbol=PSMD2 26S proteasome non-ATPase regulatory subunit 2	76	100877	4	5.6
533	IPI00303568	Tax_Id=9606 Gene_Symbol=PTGES2 Prostaglandin E synthase 2	76	42088	4	9.8
534	IPI00456887	Tax_Id=9606 Gene_Symbol=HNRNPUL2 Heterogeneous nuclear ribonucleoprotein U-like protein 2	76	85622	11	10
535	IPI00010105	Tax_Id=9606 Gene_Symbol=EIF6 Eukaryotic translation initiation factor 6	75	27095	3	18.8
536	IPI00026665	Tax_Id=9606 Gene_Symbol=QARS GlutaminyI-tRNA synthetase	75	90569	3	4.5
537	IPI00182757	Tax_Id=9606 Gene_Symbol=KIAA1967 Isoform 1 of Protein KIAA1967	75	103465	3	3.6
538	IPI00007019	Tax_Id=9606 Gene_Symbol=PPIL1 Peptidyl-prolyl cis-trans isomerase-like 1	74	18339	3	14.5
539	IPI00014439	Tax_Id=9606 Gene_Symbol=QDPR Dihydropteridine reductase	74	26001	1	5.3
540	IPI00745955	Tax_Id=9606 Gene_Symbol=EBNA1BP2 EBNA1 binding protein 2	74	40830	3	8.9
541	IPI00099996	Tax_Id=9606 Gene_Symbol=RG9MTD1 RNA (guanine-9-) methyltransferase domain containing 1	74	47602	4	11.7
542	IPI00026970	Tax_Id=9606 Gene_Symbol=SUPT16H FACT complex subunit SPT16	74	120409	14	7.4
543	IPI00219673	Tax_Id=9606 Gene_Symbol=GSTK1 Glutathione S-transferase kappa 1	74	25594	3	11.5
544	IPI00411816	Tax_Id=9606 Gene_Symbol=MRPL2 39S ribosomal protein L2, mitochondrial	74	33565	4	7.5
545	IPI00218693	Tax_Id=9606 Gene_Symbol=APRT Adenine phosphoribosyl-transferase	74	19766	3	10
546	IPI00334627	Tax_Id=9606 Gene_Symbol=ANXA2P2 Putative annexin A2-like protein	73	38806	4	11.5
547	IPI00292020	Tax_Id=9606 Gene_Symbol=SRM Spermidine synthase	73	34373	4	15.6

548	IPI00029468	Tax_Id=9606 Gene_Symbol=ACTR1A Alpha-centractin	73	42701	8	7.2
549	IPI00009922	Tax_Id=9606 Gene_Symbol=C14orf156 SRA stem-loop-interacting RNA-binding protein, mitochondrial	73	12398	2	25.7
550	IPI00783982	Tax_Id=9606 Gene_Symbol=COPG Coatomer subunit gamma	73	98967	6	8.2
551	IPI00030706	Tax_Id=9606 Gene_Symbol=AHSA1 Activator of 90 kDa heat shock protein ATPase homolog 1	73	38421	4	8.9
552	IPI00003377	Tax_Id=9606 Gene_Symbol=SFRS7 Isoform 1 of Splicing factor, arginine/serine-rich 7	73	27578	4	14.7
553	IPI00294536	Tax_Id=9606 Gene_Symbol=STRAP Serine-threonine kinase receptor-associated protein	73	38756	4	12.3
554	IPI00001734	Tax_Id=9606 Gene_Symbol=PSAT1 Isoform 1 of Phosphoserine aminotransferase	73	40796	5	14.9
555	IPI00106698	Tax_Id=9606 Gene_Symbol=PELO Protein pelota homolog	73	43806	6	16.4
556	IPI00017964	Tax_Id=9606 Gene_Symbol=SNRPD3 Small nuclear ribonucleo-protein Sm D3	72	14021	2	16.7
557	IPI00004795	Tax_Id=9606 Gene_Symbol=CLNS1A Methylosome subunit pI-Cln	72	26370	4	16.9
558	IPI00376394	Tax_Id=9606 Gene_Symbol=QSOX2 Sulfhydryl oxidase 2	72	78221	4	7.7
559	IPI00329629	Tax_Id=9606 Gene_Symbol=DNAJC7 DnaJ homolog subfamily C member 7	72	57203	4	12.8
560	IPI00873426	Tax_Id=9606 Gene_Symbol=ANK2 434 kDa protein	71	435952	17	4.8
561	IPI00017412	Tax_Id=9606 Gene_Symbol=RFC2 Isoform 1 of Replication factor C subunit 2	71	39588	3	6.8
562	IPI00019376	Tax_Id=9606 Gene_Symbol=SEPT11 Septin-11	71	49652	7	9.1
563	IPI00218207	Tax_Id=9606 Gene_Symbol=SPTBN2 Isoform 2 of Spectrin beta chain, brain 2	71	269709	14	6.3
564	IPI00220327	Tax_Id=9606 Gene_Symbol=KRT1 Keratin, type II cytoskeletal 1	71	66149	8	12.4
565	IPI00152946	Tax_Id=9606 Gene_Symbol=RACGAP1 Rac GTPase-activating protein 1	71	71666	2	5.7
566	IPI00550882	Tax_Id=9606 Gene_Symbol=PYCR1 Pyrroline-5-carboxylate reductase 1, mitochondrial	70	33568	7	23.2
567	IPI00031552	Tax_Id=9606 Gene_Symbol=ELAVL3 Isoform 1 of ELAV-like protein 3	70	39693	3	6
568	IPI00022095	Tax_Id=9606 Gene_Symbol=PEG10 Isoform RF1/RF2 of Retrotransposon-derived protein PEG10	70	80692	5	5.9
569	IPI00021728	Tax_Id=9606 Gene_Symbol=EIF2S2 Eukaryotic translation initiation factor 2 subunit 2	70	38706	4	9.6
570	IPI00216008	Tax_Id=9606 Gene_Symbol=G6PD Isoform Long of Glucose-6-phosphate 1-dehydrogenase	70	64299	7	11.9
571	IPI00305383	Tax_Id=9606 Gene_Symbol=UQCRC2 Cytochrome b-c1 complex subunit 2, mitochondrial	70	48584	3	8.6
572	IPI00024920	Tax_Id=9606 Gene_Symbol=ATP5D ATP synthase subunit delta, mitochondrial	69	17479	2	13.7
573	IPI00028122	Tax_Id=9606 Gene_Symbol=PSIP1 Isoform 1 of PC4 and SFRS1-interacting protein	69	60181	6	13.2

574	IPI00410067	Tax_Id=9606 Gene_Symbol=ZC3HAV1 Isoform 1 of Zinc finger CCCH-type antiviral protein 1	69	103148	6	6.4
575	IPI00554590	Tax_Id=9606 Gene_Symbol=RAB3GAP2 Isoform 1 of Rab3 GTPase-activating protein non-catalytic subunit	69	157482	6	5.2
576	IPI00013981	Tax_Id=9606 Gene_Symbol=YES1 Proto-oncogene tyrosine- protein kinase Yes	69	61276	7	13.8
577	IPI00060715	Tax_Id=9606 Gene_Symbol=KCTD12 BTB/POZ domain- containing protein KCTD12	69	35964	2	7.4
578	IPI00293533	Tax_Id=9606 Gene_Symbol=NUP62 Nuclear pore glycoprotein p62	69	53394	5	13
579	IPI00219585	Tax_Id=9606 Gene_Symbol=PFKM Isoform 2 of 6- phosphofructokinase, muscle type	69	82579	7	9.9
580	IPI00011913	Tax_Id=9606 Gene_Symbol=HNRNPA0 Heterogeneous nuclear ribonucleoprotein A0	69	30993	1	5.2
581	IPI00026358	Tax_Id=9606 Gene_Symbol=GABARAPL2 Gamma- aminobutyric acid receptor-associated protein-like 2	69	13715	1	12.8
582	IPI00297982	Tax_Id=9606 Gene_Symbol=EIF2S3 Eukaryotic translation initi- ation factor 2 subunit 3	68	51647	6	6.1
583	IPI00155562	Tax_Id=9606 Gene_Symbol=RNFI26 Isoform 2 of RING finger protein 126	68	34468	1	4.5
584	IPI00179026	Tax_Id=9606 Gene_Symbol=MCTS1 Isoform 1 of Malignant T cell amplified sequence 1	68	20770	3	11.6
585	IPI00000856	Tax_Id=9606 Gene_Symbol=FERMT2 Isoform 1 of Fermitin fam- ily homolog 2	68	78438	5	10.4
586	IPI00016653	Tax_Id=9606 Gene_Symbol=CEP152 Isoform 1 of Centrosomal protein of 152 kDa	68	187057	13	8.6
587	IPI00300371	Tax_Id=9606 Gene_Symbol=SF3B3 Isoform 1 of Splicing factor 3B subunit 3	68	136575	3	3.2
588	IPI00001676	Tax_Id=9606 Gene_Symbol=NPLOC4 Isoform 2 of Nuclear pro- tein localization protein 4 homolog	68	70215	4	9.7
589	IPI00465044	Tax_Id=9606 Gene_Symbol=RCC2 Protein RCC2	68	56790	4	9.4
590	IPI00297579	Tax_Id=9606 Gene_Symbol=CBX3;LOC653972 Chromobox pro- tein homolog 3	67	20969	4	24
591	IPI00329801	Tax_Id=9606 Gene_Symbol=ANXA5 Annexin A5	67	35971	2	9.7
592	IPI00553165	Tax_Id=9606 Gene_Symbol=PIN4 Protein (Peptidylprolyl cis/trans isomerase) NIMA-interacting, 4	67	9127	7	58.1
593	IPI00384463	Tax_Id=9606 Gene_Symbol=EIF4G1 eukaryotic translation initi- ation factor 4 gamma, 1 isoform 2	67	167227	8	8.1
594	IPI00005154	Tax_Id=9606 Gene_Symbol=SSRP1 FACT complex subunit SSRP1	67	81367	9	11.8
595	IPI00291783	Tax_Id=9606 Gene_Symbol=GEMIN5 Gem-associated protein 5	66	170793	12	6.4
596	IPI00033030	Tax_Id=9606 Gene_Symbol=ADRM1 Protein ADRM1	66	42412	4	9.3
597	IPI00007402	Tax_Id=9606 Gene_Symbol=IPO7 Importin-7	65	120751	2	2.5
598	IPI00013847	Tax_Id=9606 Gene_Symbol=UQCRC1 Cytochrome b-c1 complex subunit 1, mitochondrial	65	53297	1	2.5
599	IPI00009203	Tax_Id=9606 Gene_Symbol=SNX7 Sorting nexin-7	65	51872	2	4.7

600	IPI00012535	Tax_Id=9606 Gene_Symbol=DNAJA1 DnaJ homolog subfamily A member 1	65	45581	3	9.8
601	IPI00220528	Tax_Id=9606 Gene_Symbol=SNRPF Small nuclear ribonucleo-protein F	65	9776	3	44.2
602	IPI00479143	Tax_Id=9606 Gene_Symbol=PCNT Pericentrin	65	380644	20	7
603	IPI00216044	Tax_Id=9606 Gene_Symbol=RALY Isoform 1 of RNA-binding protein Raly	64	30403	3	20
604	IPI00026167	Tax_Id=9606 Gene_Symbol=NHP2L1 NHP2-like protein 1	64	14393	2	9.4
605	IPI00396370	Tax_Id=9606 Gene_Symbol=EIF3B Isoform 1 of Eukaryotic translation initiation factor 3 subunit B	64	92833	13	8.1
606	IPI00549381	Tax_Id=9606 Gene_Symbol=MRPL1 mitochondrial ribosomal protein L1 precursor	64	37113	3	12.3
607	IPI00797887	Tax_Id=9606 Gene_Symbol=FXR1 FXR1 protein	64	26366	2	10.1
608	IPI00300631	Tax_Id=9606 Gene_Symbol=SAFB Scaffold attachment factor B1	64	103036	7	7.2
609	IPI00430411	Tax_Id=9606 Gene_Symbol=CAMK4 Calcium/calmodulin-dependent protein kinase type IV	63	52349	3	7
610	IPI00289535	Tax_Id=9606 Gene_Symbol=PMPCB Mitochondrial-processing peptidase subunit beta	63	54842	8	10.6
611	IPI00030320	Tax_Id=9606 Gene_Symbol=DDX6 Probable ATP-dependent RNA helicase DDX6	63	54781	9	14.7
612	IPI00031583	Tax_Id=9606 Gene_Symbol=USO1 Putative uncharacterized protein DKFZp451D234	62	110031	6	8.3
613	IPI00395769	Tax_Id=9606 Gene_Symbol=ATP5C1 Isoform Heart of ATP synthase subunit gamma, mitochondrial	62	32917	3	4.7
614	IPI00031570	Tax_Id=9606 Gene_Symbol=C1orf57 Probable UPF0334 kinase-like protein C1orf57	62	20928	1	7.9
615	IPI00477179	Tax_Id=9606 Gene_Symbol=DDX21 Isoform 2 of Nucleolar RNA helicase 2	62	80121	9	12
616	IPI00179187	Tax_Id=9606 Gene_Symbol=DNAJA3 Isoform 2 of DnaJ homolog subfamily A member 3, mitochondrial	62	50256	7	18.8
617	IPI00895938	Tax_Id=9606 Gene_Symbol=ACYP1 Thymidylate kinase	62	23990	4	18.4
618	IPI00001661	Tax_Id=9606 Gene_Symbol=RCC1 regulator of chromosome condensation 1 isoform a	62	48685	4	2.2
619	IPI00016249	Tax_Id=9606 Gene_Symbol=FXR1 Isoform 1 of Fragile X mental retardation syndrome-related protein 1	61	70020	6	9.8
620	IPI00172421	Tax_Id=9606 Gene_Symbol=SKP1 Isoform 2 of S-phase kinase-associated protein 1	61	18223	1	8.1
621	IPI00154473	Tax_Id=9606 Gene_Symbol=GFM1 Elongation factor G 1, mitochondrial	61	84103	8	8.4
622	IPI00410693	Tax_Id=9606 Gene_Symbol=SERBP1 Isoform 1 of Plasminogen activator inhibitor 1 RNA-binding protein	61	44995	6	15.2
623	IPI00025366	Tax_Id=9606 Gene_Symbol=CS Citrate synthase, mitochondrial	60	51908	6	8.6
624	IPI00301936	Tax_Id=9606 Gene_Symbol=ELAVL1 ELAV-like protein 1	60	36240	2	5.5
625	IPI00015897	Tax_Id=9606 Gene_Symbol=CHORDC1 Isoform 1 of Cysteine and histidine-rich domain-containing protein 1	60	38264	3	10.5

626	IPI00003923	Tax_Id=9606 Gene_Symbol=UMPS Isoform 1 of Uridine 5 - monophosphate synthase	60	52645	3	7.1
627	IPI00032140	Tax_Id=9606 Gene_Symbol=SERPINH1 Serpin H1	60	46525	4	12.2
628	IPI00221234	Tax_Id=9606 Gene_Symbol=ALDH7A1 aldehyde dehydrogenase 7 family, member A1	60	59020	2	4.3
629	IPI00028264	Tax_Id=9606 Gene_Symbol=EXOC8 Exocyst complex component 8	60	82432	5	6.6
630	IPI00640703	Tax_Id=9606 Gene_Symbol=XPO5 Isoform 1 of Exportin-5	59	138332	6	5.6
631	IPI00642542	Tax_Id=9606 Gene_Symbol=CNN3 DJ639P13.2.2	59	20309	4	27.6
632	IPI00328118	Tax_Id=9606 Gene_Symbol=SPAG5 Sperm-associated antigen 5	59	135706	5	4.4
633	IPI00007682	Tax_Id=9606 Gene_Symbol=ATP6V1A Vacuolar ATP synthase catalytic subunit A	59	68660	3	5.8
634	IPI00178744	Tax_Id=9606 Gene_Symbol=ACADVL Isoform 2 of Very long-chain specific acyl-CoA dehydrogenase, mitochondrial	59	73288	4	5.6
635	IPI00790743	Tax_Id=9606 Gene_Symbol=- Protein	59	16170	6	22.5
636	IPI00216230	Tax_Id=9606 Gene_Symbol=TMPO Lamina-associated polypeptide 2 isoform alpha	59	76016	3	4.9
637	IPI00019903	Tax_Id=9606 Gene_Symbol=CCDC44 Coiled-coil domain-containing protein 44	58	32913	2	8.4
638	IPI00031397	Tax_Id=9606 Gene_Symbol=ACSL3 Long-chain-fatty-acid-CoA ligase 3	58	81338	8	14.6
639	IPI00294380	Tax_Id=9606 Gene_Symbol=PCK2 Phosphoenolpyruvate carboxykinase [GTP], mitochondrial	58	71447	5	10.3
640	IPI00009235	Tax_Id=9606 Gene_Symbol=SSR3 Translocon-associated protein subunit gamma	58	21067	1	7.6
641	IPI00657692	Tax_Id=9606 Gene_Symbol=COL4A3BP Goodpasture antigen-binding protein	58	84511	4	6.6
642	IPI00147874	Tax_Id=9606 Gene_Symbol=NANS Sialic acid synthase	58	40738	5	13.9
643	IPI00011631	Tax_Id=9606 Gene_Symbol=ZW10 Centromere/kinetochore protein zw10 homolog	58	89628	4	7.8
644	IPI00719446	Tax_Id=9606 Gene_Symbol=C14orf145 Isoform 2 of Uncharacterized protein C14orf145	58	128565	20	16.9
645	IPI00412737	Tax_Id=9606 Gene_Symbol=WARS tryptophanyl-tRNA synthetase isoform b	57	49163	6	11.6
646	IPI00385449	Tax_Id=9606 Gene_Symbol=PRKCA Protein kinase C alpha type	57	77855	5	7.1
647	IPI00414123	Tax_Id=9606 Gene_Symbol=CRMP1 Dihydropyrimidinase-related protein 1	57	62487	7	17.8
648	IPI00004409	Tax_Id=9606 Gene_Symbol=DDR2 Discoidin domain-containing receptor 2	57	97602	1	1.8
649	IPI00219518	Tax_Id=9606 Gene_Symbol=ARL1 ADP-ribosylation factor-like protein 1	57	20518	1	7.7
650	IPI00029731	Tax_Id=9606 Gene_Symbol=RPL35A 60S ribosomal protein L35a	57	12587	10	54.5
651	IPI00029403	Tax_Id=9606 Gene_Symbol=SNX4 Sorting nexin-4	57	52161	1	2.2
652	IPI00411763	Tax_Id=9606 Gene_Symbol=KIF1B Isoform 3 of Kinesin-like protein KIF1B	57	131308	12	9.2

653	IPI00107531	Tax_Id=9606 Gene_Symbol=RAD50 Isoform 3 of DNA repair protein RAD50	57	139145	20	11.7
654	IPI00031521	Tax_Id=9606 Gene_Symbol=RFC3 Replication factor C subunit 3	57	41328	4	11.2
655	IPI00165092	Tax_Id=9606 Gene_Symbol=YARS2 Tyrosyl-tRNA synthetase, mitochondrial	57	53394	1	2.7
656	IPI00182533	Tax_Id=9606 Gene_Symbol=RPL28 60S ribosomal protein L28	57	15795	6	19
657	IPI00299904	Tax_Id=9606 Gene_Symbol=MCM7 Isoform 1 of DNA replication licensing factor MCM7	57	81884	9	11.4
658	IPI00384173	Tax_Id=9606 Gene_Symbol=SNRNPB Small nuclear ribonucleo-protein B	57	28104	5	25.1
659	IPI00031420	Tax_Id=9606 Gene_Symbol=UGDH UDP-glucose 6-dehydrogenase	56	55674	2	2.6
660	IPI00215911	Tax_Id=9606 Gene_Symbol=APEX1 DNA-(apurinic or apyrimidinic site) lyase	56	35931	4	12.6
661	IPI00003886	Tax_Id=9606 Gene_Symbol=GNL3 Isoform 2 of Guanine nucleotide-binding protein-like 3	56	61020	5	10.2
662	IPI00012900	Tax_Id=9606 Gene_Symbol=GATA2 Endothelial transcription factor GATA-2	56	51105	6	15
663	IPI00218728	Tax_Id=9606 Gene_Symbol=PAFAH1B1 Isoform 1 of Platelet-activating factor acetylhydrolase IB subunit alpha	56	47178	5	15.9
664	IPI00010404	Tax_Id=9606 Gene_Symbol=SF3B5 Splicing factor 3B subunit 5	56	10243	2	17.4
665	IPI00745872	Tax_Id=9606 Gene_Symbol=ALB Isoform 1 of Serum albumin	56	71317	6	7.9
666	IPI00647205	Tax_Id=9606 Gene_Symbol=C6orf174 Uncharacterized protein C6orf174	56	103478	9	10.5
667	IPI00002349	Tax_Id=9606 Gene_Symbol=NUFIP2 Nuclear fragile X mental retardation-interacting protein 2	55	76132	6	7.6
668	IPI00019926	Tax_Id=9606 Gene_Symbol=ADRBK2 Beta-adrenergic receptor kinase 2	55	80685	5	6.8
669	IPI00008982	Tax_Id=9606 Gene_Symbol=ALDH18A1 Isoform Long of Delta-1-pyrroline-5-carboxylate synthetase	55	87989	6	9.6
670	IPI00746388	Tax_Id=9606 Gene_Symbol=EZR Ezrin	55	69353	9	15.9
671	IPI00385901	Tax_Id=9606 Gene_Symbol=COQ9 Isoform 2 of Ubiquinone biosynthesis protein COQ9, mitochondrial	55	14667	1	15.6
672	IPI00394906	Tax_Id=9606 Gene_Symbol=KLC1 Isoform K of Kinesin light chain 1	55	69913	5	6.9
673	IPI00017763	Tax_Id=9606 Gene_Symbol=NAP1L4 Nucleosome assembly protein 1-like 4	55	42968	5	10.4
674	IPI00024662	Tax_Id=9606 Gene_Symbol=CBX5 Chromobox protein homolog 5	55	22382	2	7.3
675	IPI00304417	Tax_Id=9606 Gene_Symbol=IDH3B Isocitrate dehydrogenase 3, beta subunit isoform a precursor	55	43139	5	9.2
676	IPI00383680	Tax_Id=9606 Gene_Symbol=RPN2 Ribophorin II	54	67681	2	3.4
677	IPI00010270	Tax_Id=9606 Gene_Symbol=RAC2 Ras-related C3 botulinum toxin substrate 2	54	21814	3	13.5

678	IPI00305461	Tax_Id=9606 Gene_Symbol=ITIH2 Inter-alpha-trypsin inhibitor heavy chain H2	54	106826	2	2.4
679	IPI00012901	Tax_Id=9606 Gene_Symbol=GATA3 Isoform 1 of Trans-acting T-cell-specific transcription factor GATA-3	54	48570	4	12.2
680	IPI00029623	Tax_Id=9606 Gene_Symbol=PSMA6 Proteasome subunit alpha type-6	54	27838	4	23.6
681	IPI00465128	Tax_Id=9606 Gene_Symbol=BAT3 Isoform 1 of Large proline-rich protein BAT3	54	119790	6	6.6
682	IPI00739902	Tax_Id=9606 Gene_Symbol=MIA3 Isoform 2 of Melanoma inhibitory activity protein 3	54	207389	13	8.3
683	IPI00001757	Tax_Id=9606 Gene_Symbol=RBM8A Isoform 1 of RNA-binding protein 8A	54	19934	1	10.9
684	IPI00328354	Tax_Id=9606 Gene_Symbol=MAGED1 Isoform 1 of Melanoma-associated antigen D1	53	86221	5	9.3
685	IPI00011126	Tax_Id=9606 Gene_Symbol=PSMC1 26S protease regulatory subunit 4	53	49325	8	19.5
686	IPI00514053	Tax_Id=9606 Gene_Symbol=ARCN1 Coatomer subunit delta	53	57630	9	17
687	IPI00414819	Tax_Id=9606 Gene_Symbol=SKIV2L Helicase SKI2W	53	138681	7	4.7
688	IPI00002398	Tax_Id=9606 Gene_Symbol=KLHL13 kelch-like 13	53	74618	7	15
689	IPI00003964	Tax_Id=9606 Gene_Symbol=USP9X ubiquitin specific protease 9, X-linked isoform 4	53	293699	8	3
690	IPI00024821	Tax_Id=9606 Gene_Symbol=PSMD14 26S proteasome non-ATPase regulatory subunit 14	53	34726	4	15.2
691	IPI00185146	Tax_Id=9606 Gene_Symbol=IPO9 Importin-9	53	116858	3	1.9
692	IPI00165230	Tax_Id=9606 Gene_Symbol=DAZAP1 Isoform 1 of DAZ-associated protein 1	53	43584	4	11.5
693	IPI00033022	Tax_Id=9606 Gene_Symbol=DNM2 Isoform 1 of Dynamin-2	53	98345	5	5.5
694	IPI00009480	Tax_Id=9606 Gene_Symbol=COPS8 COP9 signalosome complex subunit 8	53	23268	3	20.1
695	IPI00025019	Tax_Id=9606 Gene_Symbol=PSMB1 Proteasome subunit beta type-1	53	26700	4	21.6
696	IPI00783302	Tax_Id=9606 Gene_Symbol=PTCD3 Isoform 1 of Pentatricopeptide repeat-containing protein 3, mitochondrial	53	79184	2	3.6
697	IPI00292871	Tax_Id=9606 Gene_Symbol=CEP250 Isoform 2 of Centrosome-associated protein CEP250	52	275069	26	8.8
698	IPI00005087	Tax_Id=9606 Gene_Symbol=TMOD3 Tropomodulin-3	52	39741	2	4.8
699	IPI00005634	Tax_Id=9606 Gene_Symbol=TTC37 Tetratricopeptide repeat protein 37	52	177485	10	4.5
700	IPI00300074	Tax_Id=9606 Gene_Symbol=FARSB Phenylalanyl-tRNA synthetase beta chain	52	66715	9	11.4
701	IPI00031517	Tax_Id=9606 Gene_Symbol=MCM6 DNA replication licensing factor MCM6	52	93801	3	4.3
702	IPI00031558	Tax_Id=9606 Gene_Symbol=NUDT9 Isoform 1 of ADP-ribose pyrophosphatase, mitochondrial	52	39272	4	12.6
703	IPI00024911	Tax_Id=9606 Gene_Symbol=ERP29 Endoplasmic reticulum protein ERp29	52	29032	2	10.3

704	IPI00219155	Tax_Id=9606 Gene_Symbol=RPL27 60S ribosomal protein L27	52	15788	13	50
705	IPI00009904	Tax_Id=9606 Gene_Symbol=PDIA4 Protein disulfide-isomerase A4	52	73229	5	6.2
706	IPI00012382	Tax_Id=9606 Gene_Symbol=SNRPA U1 small nuclear ribonucleoprotein A	51	31259	1	3.5
707	IPI00454969	Tax_Id=9606 Gene_Symbol=PHF14 PHD finger protein 14	51	101843	7	6.5
708	IPI00293126	Tax_Id=9606 Gene_Symbol=TBCB Tubulin folding cofactor B	51	27594	2	8.2
709	IPI00844303	Tax_Id=9606 Gene_Symbol=UNC84A Unc-84 homolog A	51	109356	4	4.6
710	IPI00022372	Tax_Id=9606 Gene_Symbol=MYCN N-myc proto-oncogene protein	51	49930	1	4.3
711	IPI00220710	Tax_Id=9606 Gene_Symbol=ACOT9 acyl-Coenzyme A thioesterase 2, mitochondrial isoform b	51	50269	2	5
712	IPI00103247	Tax_Id=9606 Gene_Symbol=HNRPLL Isoform 1 of Heterogeneous nuclear ribonucleoprotein L-like	50	60900	4	5.2
713	IPI00003519	Tax_Id=9606 Gene_Symbol=EFTUD2 116 kDa U5 small nuclear ribonucleoprotein component	50	110336	4	2.8
714	IPI00007812	Tax_Id=9606 Gene_Symbol=ATP6V1B2 Vacuolar ATP synthase subunit B, brain isoform	50	56807	2	4.5
715	IPI00221089	Tax_Id=9606 Gene_Symbol=RPS13 40S ribosomal protein S13	50	17212	2	11.3
716	IPI00306708	Tax_Id=9606 Gene_Symbol=PBK Lymphokine-activated killer T-cell-originated protein kinase	50	36404	4	19.6
717	IPI00784224	Tax_Id=9606 Gene_Symbol=ZFR Zinc finger RNA binding protein	50	118816	9	8.3
718	IPI00023101	Tax_Id=9606 Gene_Symbol=RQCD1 Cell differentiation protein RCD1 homolog	50	33952	1	3.7
719	IPI00797279	Tax_Id=9606 Gene_Symbol=UHRF1 ubiquitin-like, containing PHD and RING finger domains, 1 isoform 2	50	92582	6	8.2
720	IPI00168317	Tax_Id=9606 Gene_Symbol=SPC24 Kinetochore protein Spc24	50	22486	2	10.7
721	IPI00552149	Tax_Id=9606 Gene_Symbol=PHF6 PHD finger protein 6	50	42475	5	16.1
722	IPI00646556	Tax_Id=9606 Gene_Symbol=NDUFV2 28 kDa protein	49	28231	2	9.9
723	IPI00043373	Tax_Id=9606 Gene_Symbol=CEP63 Isoform 1 of Centrosomal protein of 63 kDa	49	81863	9	11.7
724	IPI00064162	Tax_Id=9606 Gene_Symbol=VCPIP1 Deubiquitinating protein VCIP135	49	135604	6	5.7
725	IPI00034015	Tax_Id=9606 Gene_Symbol=CUGBP1 Isoform 1 of CUG-BP- and ETR-3-like factor 1	49	52429	3	8.6
726	IPI00005979	Tax_Id=9606 Gene_Symbol=EIF2B4 Isoform 1 of Translation initiation factor eIF-2B subunit delta	49	58035	4	9.6
727	IPI00013195	Tax_Id=9606 Gene_Symbol=MRPL49 39S ribosomal protein L49, mitochondrial	49	19243	2	14.5
728	IPI00874249	Tax_Id=9606 Gene_Symbol=LOC441528;XXbac-BPG181B23.1;MICA;LOC100133382;HLA-A;HLA-B;HLA-C;LOC728687 cDNA FLJ43620 fis, clone SPLEN2021701, highly similar to HLA CLASS I HISTOCOMPATIBILITY ANTIGEN, A-2 ALPHA CHAIN	49	32856	4	15.9
729	IPI00027996	Tax_Id=9606 Gene_Symbol=CORO7;Magmas Coronin-7	49	101596	3	3.5

730	IPI00011997	Tax_Id=9606 Gene_Symbol=C8orf33 Isoform 1 of UPF0488 protein C8orf33	49	25319	1	7
731	IPI00294739	Tax_Id=9606 Gene_Symbol=SAMHD1 SAM domain and HD domain-containing protein 1	49	72896	5	8.3
732	IPI00024279	Tax_Id=9606 Gene_Symbol=HEATR1 HEAT repeat-containing protein 1	49	244382	6	2.6
733	IPI00641288	Tax_Id=9606 Gene_Symbol=TRIM67 Isoform 2 of Tripartite motif-containing protein 67	49	79847	3	8.6
734	IPI00171199	Tax_Id=9606 Gene_Symbol=PSMA3 Isoform 2 of Proteasome subunit alpha type-3	48	27858	1	4.8
735	IPI00105598	Tax_Id=9606 Gene_Symbol=PSMD11 Proteasome 26S non-ATPase subunit 11 variant (Fragment)	48	47790	4	11.8
736	IPI00375441	Tax_Id=9606 Gene_Symbol=FUBP1 Isoform 1 of Far upstream element-binding protein 1	48	67690	2	4.7
737	IPI00329633	Tax_Id=9606 Gene_Symbol=TARS Threonyl-tRNA synthetase, cytoplasmic	48	84294	7	7.2
738	IPI00172656	Tax_Id=9606 Gene_Symbol=UBXD8 UBX domain-containing protein 8	48	52933	1	3.8
739	IPI00873906	Tax_Id=9606 Gene_Symbol=SEPT6 MLL/SEPTIN6 fusion protein (Fragment)	48	63617	8	11.3
740	IPI00384909	Tax_Id=9606 Gene_Symbol=KIDINS220 Isoform 2 of Ankyrin repeat-rich membrane spanning protein	48	186912	9	6.7
741	IPI00014808	Tax_Id=9606 Gene_Symbol=PFAFH1B3 Platelet-activating factor acetylhydrolase IB subunit gamma	47	25832	3	11.7
742	IPI00010845	Tax_Id=9606 Gene_Symbol=NDUFS8 NADH dehydrogenase [ubiquinone] iron-sulfur protein 8, mitochondrial	47	24203	2	8.1
743	IPI00024919	Tax_Id=9606 Gene_Symbol=PRDX3 Thioredoxin-dependent peroxide reductase, mitochondrial	47	28017	3	14.1
744	IPI00413778	Tax_Id=9606 Gene_Symbol=FKBP1A Peptidyl-prolyl cis-trans isomerase	47	15793	4	34.5
745	IPI00290142	Tax_Id=9606 Gene_Symbol=CTPS CTP synthase 1	47	67332	5	8.5
746	IPI00005745	Tax_Id=9606 Gene_Symbol=SPTLC1 Serine palmitoyltransferase 1	47	53281	4	5.7
747	IPI00291467	Tax_Id=9606 Gene_Symbol=SLC25A6 ADP/ATP translocase 3	47	33073	4	9.4
748	IPI00003482	Tax_Id=9606 Gene_Symbol=DECR1 2,4-dienoyl-CoA reductase, mitochondrial	47	36330	3	9
749	IPI00171844	Tax_Id=9606 Gene_Symbol=COPS4 COP9 signalosome complex subunit 4	47	46525	3	8.1
750	IPI00217686	Tax_Id=9606 Gene_Symbol=FTSJ3 Putative rRNA methyltransferase 3	47	96972	6	6.1
751	IPI00328987	Tax_Id=9606 Gene_Symbol=BYSL Bystin	47	49798	7	12.4
752	IPI00788907	Tax_Id=9606 Gene_Symbol=PGAM5 Isoform 1 of Phosphoglycerate mutase family member 5	47	32213	5	15.9
753	IPI00219622	Tax_Id=9606 Gene_Symbol=PSMA2 Proteasome subunit alpha type-2	46	25996	2	9.4

754	IPI00031554	Tax_Id=9606 Gene_Symbol=DDX50 ATP-dependent RNA heli- case DDX50	46	83084	4	9.5
755	IPI00152542	Tax_Id=9606 Gene_Symbol=DMXL2 DmX-like protein 2	46	343078	9	3.4
756	IPI00182289	Tax_Id=9606 Gene_Symbol=RPS29 40S ribosomal protein S29	46	6900	2	32.1
757	IPI00760588	Tax_Id=9606 Gene_Symbol=ADAR Isoform 5 of Double-stranded RNA-specific adenosine deaminase	46	104745	5	6.7
758	IPI00295098	Tax_Id=9606 Gene_Symbol=SRPRB Signal recognition particle receptor subunit beta	46	29912	3	10.3
759	IPI00001716	Tax_Id=9606 Gene_Symbol=PUS1 Isoform 2 of tRNA pseudouri- dine synthase A	46	44862	4	7
760	IPI00015947	Tax_Id=9606 Gene_Symbol=DNAJB1 DnaJ homolog subfamily B member 1	46	38191	5	13.5
761	IPI00219160	Tax_Id=9606 Gene_Symbol=RPL34 60S ribosomal protein L34	46	13513	3	13.7
762	IPI00874144	Tax_Id=9606 Gene_Symbol=MRPS6 20 kDa protein	46	20519	8	36.6
763	IPI00257882	Tax_Id=9606 Gene_Symbol=PEPD Xaa-Pro dipeptidase	45	55311	2	5.9
764	IPI00016910	Tax_Id=9606 Gene_Symbol=EIF3CL;EIF3C Eukaryotic transla- tion initiation factor 3 subunit C	45	105962	6	6.5
765	IPI00219097	Tax_Id=9606 Gene_Symbol=HMGB2 High mobility group protein B2	45	24190	10	36.8
766	IPI00220503	Tax_Id=9606 Gene_Symbol=DCTN2 dynactin 2	45	44906	2	4.7
767	IPI00792395	Tax_Id=9606 Gene_Symbol=POR Putative uncharacterized pro- tein DKFZp686G04235	45	77426	3	3.7
768	IPI00658109	Tax_Id=9606 Gene_Symbol=CKMT1B;CKMT1A;LOC100133623 Creatine kinase, ubiquitous mitochondrial	45	47406	6	12.7
769	IPI00237446	Tax_Id=9606 Gene_Symbol=ATP11C Isoform 2 of Probable phospholipid-transporting ATPase IG	45	128054	7	5.1
770	IPI00306369	Tax_Id=9606 Gene_Symbol=NSUN2 tRNA (cytosine-5)- methyltransferase NSUN2	45	87214	8	10.8
771	IPI00031516	Tax_Id=9606 Gene_Symbol=GABPB1;GABPB2 Isoform 1 of GA- binding protein subunit beta-1	45	42571	2	3.3
772	IPI00396131	Tax_Id=9606 Gene_Symbol=YTHDF3 YTH domain family pro- tein 3	45	63936	4	6
773	IPI00009982	Tax_Id=9606 Gene_Symbol=TDRKH Isoform 1 of Tudor and KH domain-containing protein	45	67553	3	6.3
774	IPI00220648	Tax_Id=9606 Gene_Symbol=PMVK Phosphomevalonate kinase	45	22152	2	9.9
775	IPI00783625	Tax_Id=9606 Gene_Symbol=SERPINB5 Serpin B5	45	42568	2	5.9
776	IPI00296913	Tax_Id=9606 Gene_Symbol=NUDT5 ADP-sugar pyrophos- phatase	45	24597	4	16
777	IPI00029012	Tax_Id=9606 Gene_Symbol=EIF3A Eukaryotic translation initi- ation factor 3 subunit A	45	166867	13	8
778	IPI00022442	Tax_Id=9606 Gene_Symbol=NDUFAB1 Acyl carrier protein, mi- tochondrial	45	17577	2	15.4
779	IPI00005780	Tax_Id=9606 Gene_Symbol=OGT Isoform 3 of UDP-N- acetylglucosamine-peptide N-acetylglucosaminyltransferase 110 kDa subunit	45	118104	2	2.2

780	IPI00171438	Tax_Id=9606 Gene_Symbol=MUTED;TXNDC5 Thioredoxin domain-containing protein 5	44	48283	2	5.6
781	IPI00291922	Tax_Id=9606 Gene_Symbol=PSMA5 Proteasome subunit alpha type-5	44	26565	2	5.8
782	IPI00027973	Tax_Id=9606 Gene_Symbol=PCBP4 Isoform 1 of Poly(rC)-binding protein 4	44	41855	3	8.2
783	IPI00339381	Tax_Id=9606 Gene_Symbol=HLTF Isoform 1 of Helicase-like transcription factor	44	114883	11	9.8
784	IPI00887091	Tax_Id=9606 Gene_Symbol=LOC100133737;LOC138864 similar to hCG1809973	44	16569	4	25.7
785	IPI00473014	Tax_Id=9606 Gene_Symbol=DSTN Destrin	44	18950	3	17
786	IPI00220637	Tax_Id=9606 Gene_Symbol=SARS Seryl-tRNA synthetase, cytoplasmic	44	59253	4	7.6
787	IPI00024623	Tax_Id=9606 Gene_Symbol=ACADSB Short/branched chain specific acyl-CoA dehydrogenase, mitochondrial	44	47797	3	6.7
788	IPI00001738	Tax_Id=9606 Gene_Symbol=NUP88 Nuclear pore complex protein Nup88	44	84629	5	9.4
789	IPI00016346	Tax_Id=9606 Gene_Symbol=PROSC Proline synthetase co-transcribed bacterial homolog protein	44	30610	4	11.3
790	IPI00328161	Tax_Id=9606 Gene_Symbol=FKBP8 Isoform 2 of FK506-binding protein 8	44	45077	2	7.7
791	IPI00748870	Tax_Id=9606 Gene_Symbol=EPB41L3 13 kDa protein	44	13106	3	36.6
792	IPI00084571	Tax_Id=9606 Gene_Symbol=MRPL39 Isoform 2 of 39S ribosomal protein L3, mitochondrial9	44	40898	4	12.7
793	IPI00239077	Tax_Id=9606 Gene_Symbol=HINT1 Histidine triad nucleotide-binding protein 1	44	13907	1	11.1
794	IPI00867509	Tax_Id=9606 Gene_Symbol=CORO1C Coronin-1C_i3 protein	43	59708	6	11
795	IPI00218829	Tax_Id=9606 Gene_Symbol=GSPT1 Eukaryotic peptide chain release factor GTP-binding subunit ERF3A	43	56348	5	7.2
796	IPI00100460	Tax_Id=9606 Gene_Symbol=DARS2 Aspartyl-tRNA synthetase, mitochondrial	43	74086	5	7.1
797	IPI00003842	Tax_Id=9606 Gene_Symbol=MAP2 Isoform 1 of Microtubule-associated protein 2	43	199873	13	9.4
798	IPI00025874	Tax_Id=9606 Gene_Symbol=RPN1 Dolichyl-diphosphooligosaccharide-protein glycosyltransferase subunit precursor	43	72847	3	5
799	IPI00167572	Tax_Id=9606 Gene_Symbol=FAM98B Protein FAM98B	43	37566	2	6.7
800	IPI00032374	Tax_Id=9606 Gene_Symbol=RRP1B Isoform 2 of Ribosomal RNA processing protein 1 homolog B	43	82451	6	10.3
801	IPI00853400	Tax_Id=9606 Gene_Symbol=FKBP15 Isoform 1 of FK506-binding protein 15	43	134060	8	7.5
802	IPI00748037	Tax_Id=9606 Gene_Symbol=NAPB Beta-soluble NSF attachment protein	43	33878	5	25.2
803	IPI00006167	Tax_Id=9606 Gene_Symbol=PPM1G Protein phosphatase 1G	43	59919	2	4.4
804	IPI00025394	Tax_Id=9606 Gene_Symbol=DDC Aromatic-L-amino-acid decarboxylase	43	54544	3	5.2

805	IPI00328298	Tax_Id=9606 Gene_Symbol=SMC4 Isoform 2 of Structural maintenance of chromosomes protein 4	43	140875	14	11.9
806	IPI00008240	Tax_Id=9606 Gene_Symbol=MARS Methionyl-tRNA synthetase, cytoplasmic	43	102249	3	4.7
807	IPI00411680	Tax_Id=9606 Gene_Symbol=PCMT1 Isoform 1 of Protein-L-isoaspartate(D-aspartate) O-methyltransferase	43	24806	1	4
808	IPI00141318	Tax_Id=9606 Gene_Symbol=CKAP4 Isoform 1 of Cytoskeleton-associated protein 4	43	66097	2	6.3
809	IPI00005270	Tax_Id=9606 Gene_Symbol=KDELC1 KDEL motif-containing protein 1	42	58519	2	4.2
810	IPI00789169	Tax_Id=9606 Gene_Symbol=SEC13 28 kDa protein	42	28385	3	18.9
811	IPI00000192	Tax_Id=9606 Gene_Symbol=SON Isoform F of SON protein	42	264079	11	4
812	IPI00375947	Tax_Id=9606 Gene_Symbol=RTL1 retrotransposon-like 1	42	155919	2	1.3
813	IPI00643087	Tax_Id=9606 Gene_Symbol=TBL3 83 kDa protein	42	83789	5	6.7
814	IPI00431745	Tax_Id=9606 Gene_Symbol=CD247 cDNA FLJ46519 fis, clone THYMU3033649, highly similar to T-cell surface glycoprotein CD3 zeta chain	42	35019	4	10.9
815	IPI00018783	Tax_Id=9606 Gene_Symbol=ITPA Inosine triphosphate pyrophosphatase	42	21831	2	16
816	IPI00305469	Tax_Id=9606 Gene_Symbol=CRK v-crk sarcoma virus CT10 oncogene homolog isoform b	42	22892	1	8.8
817	IPI00788247	Tax_Id=9606 Gene_Symbol=KIF26A Kinesin-like protein KIF26A	42	197091	9	4.8
818	IPI00012912	Tax_Id=9606 Gene_Symbol=CPT2 Carnitine O-palmitoyltransferase 2, mitochondrial	42	74244	2	4.1
819	IPI00218700	Tax_Id=9606 Gene_Symbol=EPB41 Isoform 5 of Protein 4.1	42	87063	5	7.2
820	IPI00029557	Tax_Id=9606 Gene_Symbol=GRPEL1 GrpE protein homolog 1, mitochondrial	41	24492	1	5.1
821	IPI00382869	Tax_Id=9606 Gene_Symbol=- Farnesyl pyrophosphate synthetase like-4 protein (Fragment)	41	40038	3	2.6
822	IPI00016077	Tax_Id=9606 Gene_Symbol=GBAS Protein NipSnap homolog 2	41	33949	5	16.4

SILAC1 total cell lysate

Peak list format	Mascot generic
Search type	MIS
Mascot version	2.2.06
Database	IPI_human
Fasta file	ipi.HUMAN.v3.47.fasta
Total sequences	72082
Total residues	30228094
Sequences after taxonomy filter	72082
Number of queries	2042

Decoy

Number of matches above identity threshold in search of real database	1248
Number of matches above identity threshold in search of decoy database	11
Number of matches above homology threshold in search of real database	1793
Number of matches above homology threshold in search of decoy database	29

Variable modifications

Identifier	Name	Delta	Neutral loss(es)	
1	Oxidation (M)	15.994919	63.9983	0
2	GlyGly (K)	114.042923	0	
3	Label:13C(6) (R)	6.020126	0	
4	Label:2H(4) (K)	4.025101	0	

Search Parameters

Taxonomy filter	All entries
Enzyme	Trypsin/P
Maximum Missed Cleavages	2
Fixed modifications	Carbamidomethyl (C)
Quantitation method	None
Variable modifications	Oxidation (M),GlyGly (K),Label:13C(6) (R),Label:2H(4) (K)
Peptide Mass Tolerance	20
Peptide Mass Tolerance Units	ppm
Fragment Mass Tolerance	0.6
Fragment Mass Tolerance Units	Da
Mass values	Monoisotopic
Instrument type	ESI-TRAP
Isotope error mode	2
Decoy database also searched	1

Format parameters

Significance threshold	0.05
Max. number of hits	0
Use MudPIT protein scoring	1
Ions score cut-off	0
Include same-set proteins	0
Include sub-set proteins	0
Include unassigned	0
Require bold red	1

Protein hits							
Protein hit number	Accession	Description	Score	Mass	Matches	Coverage	
1	IPI00479186	Tax.Id=9606 Gene.Symbol=PKM2 Isoform M2 of Pyruvate kinase isozymes M1/M2	1143	58470	32	53.5	
2	IPI00021439	Tax.Id=9606 Gene.Symbol=ACTB Actin, cytoplasmic 1	1134	42052	38	57.6	
3	IPI00784295	Tax.Id=9606 Gene.Symbol=HSP90AA1 Isoform 1 of Heat shock protein HSP 90-alpha	1034	85006	37	33.9	
4	IPI00414676	Tax.Id=9606 Gene.Symbol=HSP90AB1 Heat shock protein HSP 90-beta	1002	83554	32	36.5	
5	IPI00784154	Tax.Id=9606 Gene.Symbol=HSPD1 60 kDa heat shock protein, mitochondrial	810	61187	26	46.1	
6	IPI00003865	Tax.Id=9606 Gene.Symbol=HSPA8 Isoform 1 of Heat shock cognate 71 kDa protein	785	71082	24	37.8	
7	IPI00011654	Tax.Id=9606 Gene.Symbol=TUBB Tubulin beta chain	702	50095	25	41.4	
8	IPI00026781	Tax.Id=9606 Gene.Symbol=FASN Fatty acid synthase	695	275850	23	10.1	
9	IPI00186290	Tax.Id=9606 Gene.Symbol=EEF2 Elongation factor 2	614	96246	22	22.8	
10	IPI00465439	Tax.Id=9606 Gene.Symbol=ALDOA Fructose-bisphosphate aldolase A	606	39851	28	54.4	
11	IPI00008603	Tax.Id=9606 Gene.Symbol=ACTA2 Actin, aortic smooth muscle	573	42381	23	23.1	
12	IPI00007752	Tax.Id=9606 Gene.Symbol=TUBB2C Tubulin beta-2C chain	569	50255	22	42	
13	IPI00440493	Tax.Id=9606 Gene.Symbol=ATP5A1 ATP synthase subunit alpha, mitochondrial	565	59828	16	33.6	
14	IPI00013683	Tax.Id=9606 Gene.Symbol=TUBB3 Tubulin beta-3 chain	554	50856	16	24.9	
15	IPI00018352	Tax.Id=9606 Gene.Symbol=UCHL1 Ubiquitin carboxyl-terminal hydrolase isozyme L1	553	25151	18	58.3	
16	IPI00216953	Tax.Id=9606 Gene.Symbol=LMNA Isoform ADelta10 of Lamin-A/C	552	70903	16	26	
17	IPI00007765	Tax.Id=9606 Gene.Symbol=HSPA9 Stress-70 protein, mitochondrial	545	73920	20	29.2	
18	IPI00218319	Tax.Id=9606 Gene.Symbol=TPM3 Isoform 2 of Tropomyosin alpha-3 chain	543	29243	16	39.1	
19	IPI00003362	Tax.Id=9606 Gene.Symbol=HSPA5 HSPA5 protein	532	72492	24	24.3	
20	IPI00018146	Tax.Id=9606 Gene.Symbol=YWHAQ 14-3-3 protein theta	528	28032	15	39.6	
21	IPI00604620	Tax.Id=9606 Gene.Symbol=NCL Isoform 1 of Nucleolin	523	76625	20	26.9	
22	IPI00333541	Tax.Id=9606 Gene.Symbol=FLNA Filamin-A	515	283301	17	9.8	

23	IPI00169383	Tax_Id=9606 Gene_Symbol=PGK1 Phosphoglycerate kinase 1	507	44985	24	54.4
24	IPI00180675	Tax_Id=9606 Gene_Symbol=TUBA1A Tubulin alpha-1A chain	499	50788	20	38.6
25	IPI00396378	Tax_Id=9606 Gene_Symbol=HNRNPA2B1 Isoform B1 of Hetero- geneous nuclear ribonucleoproteins A2/B1	478	37464	11	30
26	IPI00883857	Tax_Id=9606 Gene_Symbol=HNRNPU Isoform Long of Hetero- geneous nuclear ribonucleoprotein U	472	91198	21	21.1
27	IPI00008868	Tax_Id=9606 Gene_Symbol=MAP1B Microtubule-associated pro- tein 1B	460	271651	17	8.3
28	IPI00304925	Tax_Id=9606 Gene_Symbol=HSPA1B;HSPA1A Heat shock 70 kDa protein 1	410	70294	16	23.2
29	IPI00465028	Tax_Id=9606 Gene_Symbol=TPI1 Isoform 1 of Triosephosphate isomerase	401	31057	11	34.6
30	IPI00025252	Tax_Id=9606 Gene_Symbol=PDIA3 Protein disulfide-isomerase A3	398	57146	18	29.1
31	IPI00021263	Tax_Id=9606 Gene_Symbol=YWHAZ 14-3-3 protein zeta/delta	393	27899	11	35.5
32	IPI00453476	Tax_Id=9606 Gene_Symbol=- Uncharacterized protein ENSP00000348237	392	29003	11	31.5
33	IPI00396485	Tax_Id=9606 Gene_Symbol=EEF1A1 Elongation factor 1-alpha 1	391	50451	15	30.5
34	IPI00022977	Tax_Id=9606 Gene_Symbol=CKB Creatine kinase B-type	368	42902	12	28.9
35	IPI00297779	Tax_Id=9606 Gene_Symbol=CCT2 T-complex protein 1 subunit beta	360	57794	8	15.1
36	IPI00216049	Tax_Id=9606 Gene_Symbol=HNRNPK Isoform 1 of Heteroge- neous nuclear ribonucleoprotein K	358	51230	13	19.2
37	IPI00645948	Tax_Id=9606 Gene_Symbol=HMGB1 High-mobility group box 1	357	18967	13	35.8
38	IPI00030363	Tax_Id=9606 Gene_Symbol=ACAT1 Acetyl-CoA acetyltrans- ferase, mitochondrial	352	45456	8	23.4
39	IPI00257508	Tax_Id=9606 Gene_Symbol=DPYSL2 Dihydropyrimidinase- related protein 2	343	62711	8	18.4
40	IPI00026268	Tax_Id=9606 Gene_Symbol=GNB1 Guanine nucleotide-binding protein G(I)/G(S)/G(T) subunit beta-1	341	38151	9	25.6
41	IPI00219018	Tax_Id=9606 Gene_Symbol=GAPDH Glyceraldehyde-3- phosphate dehydrogenase	341	36201	10	33.1
42	IPI00303476	Tax_Id=9606 Gene_Symbol=ATP5B ATP synthase subunit beta, mitochondrial	338	56525	12	20
43	IPI00418169	Tax_Id=9606 Gene_Symbol=ANXA2 annexin A2 isoform 1	337	40671	13	38.7
44	IPI00000816	Tax_Id=9606 Gene_Symbol=YWHAE 14-3-3 protein epsilon	334	29326	14	43.9
45	IPI00465044	Tax_Id=9606 Gene_Symbol=RCC2 Protein RCC2	318	56790	13	13.8
46	IPI00465248	Tax_Id=9606 Gene_Symbol=ENO1 Isoform alpha-enolase of Alpha-enolase	312	47481	12	23.7
47	IPI00747810	Tax_Id=9606 Gene_Symbol=FSCN1 FSCN1 protein (Fragment)	312	55729	9	21.6
48	IPI00000874	Tax_Id=9606 Gene_Symbol=PRDX1 Peroxiredoxin-1	306	22324	15	44.7
49	IPI00010779	Tax_Id=9606 Gene_Symbol=TPM4 Isoform 1 of Tropomyosin alpha-4 chain	289	28619	8	23
50	IPI00031812	Tax_Id=9606 Gene_Symbol=YBX1 Nuclease-sensitive element- binding protein 1	285	35903	8	34
51	IPI00023048	Tax_Id=9606 Gene_Symbol=EEF1D Elongation factor 1-delta	284	31217	5	21.4

52	IPI00025491	Tax_Id=9606 Gene_Symbol=EIF4A1 Eukaryotic initiation factor 4A-I	281	46353	10	18.5
53	IPI00784808	Tax_Id=9606 Gene_Symbol=SEPT9 Isoform 5 of Septin-9	278	64926	8	11.9
54	IPI00394838	Tax_Id=9606 Gene_Symbol=ACLY ATP citrate lyase isoform 2	274	120608	8	8.8
55	IPI00219217	Tax_Id=9606 Gene_Symbol=LDHB L-lactate dehydrogenase B chain	259	36900	13	25.7
56	IPI00893541	Tax_Id=9606 Gene_Symbol=PDIA3 14 kDa protein	256	13739	7	41.5
57	IPI00027497	Tax_Id=9606 Gene_Symbol=GPI Glucose-6-phosphate isomerase	247	63335	7	15.1
58	IPI00216318	Tax_Id=9606 Gene_Symbol=YWHAB Isoform Long of 14-3-3 protein beta/alpha	246	28179	7	20.7
59	IPI00003348	Tax_Id=9606 Gene_Symbol=GNB2 Guanine nucleotide-binding protein G(I)/G(S)/G(T) subunit beta-2	245	38048	6	18.2
60	IPI00419585	Tax_Id=9606 Gene_Symbol=PPIA Peptidyl-prolyl cis-trans isomerase A	240	18229	12	39.4
61	IPI00013164	Tax_Id=9606 Gene_Symbol=PRPH Isoform 1 of Peripherin	239	53732	12	22.3
62	IPI00012007	Tax_Id=9606 Gene_Symbol=AHCY Adenosylhomocysteinase	230	48255	8	16.7
63	IPI00219078	Tax_Id=9606 Gene_Symbol=ATP2A2 Isoform SERCA2B of Sarcoplasmic/endoplasmic reticulum calcium ATPase 2	229	116336	9	8.6
64	IPI00027230	Tax_Id=9606 Gene_Symbol=HSP90B1 Endoplasmic	228	92696	10	18.9
65	IPI00646055	Tax_Id=9606 Gene_Symbol=TRAP1 57 kDa protein	225	57412	4	8.9
66	IPI00643920	Tax_Id=9606 Gene_Symbol=TKT Transketolase	222	68519	10	16.5
67	IPI00220740	Tax_Id=9606 Gene_Symbol=NPM1 Isoform 2 of Nucleophosmin	222	29617	7	30.9
68	IPI00023748	Tax_Id=9606 Gene_Symbol=NACA Nascent polypeptide-associated complex subunit alpha	221	23370	3	7
69	IPI00216308	Tax_Id=9606 Gene_Symbol=VDAC1 Voltage-dependent anion-selective channel protein 1	216	30868	7	23.7
70	IPI00302925	Tax_Id=9606 Gene_Symbol=CCT8 59 kDa protein	214	60011	10	17.7
71	IPI00220834	Tax_Id=9606 Gene_Symbol=XRCC5 ATP-dependent DNA helicase 2 subunit 2	213	83222	6	10.7
72	IPI00645078	Tax_Id=9606 Gene_Symbol=UBA1 Ubiquitin-like modifier-activating enzyme 1	209	118858	10	10.8
73	IPI00449049	Tax_Id=9606 Gene_Symbol=PARP1 Poly [ADP-ribose] polymerase 1	209	113811	9	8.5
74	IPI00024067	Tax_Id=9606 Gene_Symbol=CLTC Isoform 1 of Clathrin heavy chain 1	208	193260	9	6
75	IPI00018465	Tax_Id=9606 Gene_Symbol=CCT7 T-complex protein 1 subunit eta	207	59842	6	12
76	IPI00217465	Tax_Id=9606 Gene_Symbol=HIST1H1C Histone H1.2	206	21352	7	20.7
77	IPI00012772	Tax_Id=9606 Gene_Symbol=RPL8 60S ribosomal protein L8	205	28235	8	20.2
78	IPI00012011	Tax_Id=9606 Gene_Symbol=CFL1 Cofilin-1	204	18719	10	40.4
79	IPI00010740	Tax_Id=9606 Gene_Symbol=SFPQ Isoform Long of Splicing factor, proline- and glutamine-rich	197	76216	8	10.5
80	IPI00016610	Tax_Id=9606 Gene_Symbol=PCBP1 Poly(rC)-binding protein 1	195	37987	6	17.4
81	IPI00002214	Tax_Id=9606 Gene_Symbol=LOC728860;KPNA2 Importin subunit alpha-2	195	58168	6	11

82	IPI00013881	Tax_Id=9606 Gene_Symbol=HNRNPH1 Heterogeneous nuclear ribonucleoprotein H	193	49484	9	16
83	IPI00027350	Tax_Id=9606 Gene_Symbol=PRDX2 Peroxiredoxin-2	192	22049	8	25.3
84	IPI00291006	Tax_Id=9606 Gene_Symbol=MDH2 Malate dehydrogenase, mitochondrial	190	35965	8	23.4
85	IPI00289499	Tax_Id=9606 Gene_Symbol=ATIC Bifunctional purine biosynthesis protein PURH	190	65089	9	20.4
86	IPI00012048	Tax_Id=9606 Gene_Symbol=NME1;NME2 Nucleoside diphosphate kinase A	189	17309	10	40.8
87	IPI00216691	Tax_Id=9606 Gene_Symbol=PFN1 Profilin-1	185	15216	8	55
88	IPI00290770	Tax_Id=9606 Gene_Symbol=CCT3 chaperonin containing TCP1, subunit 3 isoform b	185	60994	4	13.2
89	IPI00221354	Tax_Id=9606 Gene_Symbol=FUS Isoform Short of RNA-binding protein FUS	183	53551	5	13
90	IPI00640006	Tax_Id=9606 Gene_Symbol=GDI2 GDP dissociation inhibitor 2 isoform 2	183	46046	6	23.5
91	IPI00873656	Tax_Id=9606 Gene_Symbol=SEPT7 Putative uncharacterized protein DKFZp586I031	183	48970	8	17.7
92	IPI00219446	Tax_Id=9606 Gene_Symbol=PEBP1 Phosphatidylethanolamine-binding protein 1	181	21158	7	18.7
93	IPI00299573	Tax_Id=9606 Gene_Symbol=RPL7A 60S ribosomal protein L7a	180	30148	9	23.7
94	IPI00218993	Tax_Id=9606 Gene_Symbol=HSPH1 Isoform Beta of Heat shock protein 105 kDa	177	92970	8	11.1
95	IPI00179964	Tax_Id=9606 Gene_Symbol=PTBP1 Isoform 1 of Polypyrimidine tract-binding protein 1	175	57357	4	9.4
96	IPI00178440	Tax_Id=9606 Gene_Symbol=EEF1B2 Elongation factor 1-beta	175	24919	2	6.7
97	IPI00014398	Tax_Id=9606 Gene_Symbol=FHL1 Four and a half LIM domains 1 variant	174	35494	3	8.4
98	IPI00430812	Tax_Id=9606 Gene_Symbol=CNBP Isoform 1 of Cellular nucleic acid-binding protein	170	20704	5	24.9
99	IPI00304596	Tax_Id=9606 Gene_Symbol=NONO Non-POU domain-containing octamer-binding protein	170	54311	7	15.5
100	IPI00641950	Tax_Id=9606 Gene_Symbol=GNB2L1 Lung cancer oncogene 7	169	38378	5	17.9
101	IPI00031522	Tax_Id=9606 Gene_Symbol=HADHA Trifunctional enzyme subunit alpha, mitochondrial	169	83688	5	7.2
102	IPI00140420	Tax_Id=9606 Gene_Symbol=SND1 Staphylococcal nuclease domain-containing protein 1	168	102618	5	6
103	IPI00419373	Tax_Id=9606 Gene_Symbol=HNRNPA3 Isoform 1 of Heterogeneous nuclear ribonucleoprotein A3	167	39799	9	34.7
104	IPI00216088	Tax_Id=9606 Gene_Symbol=CRABP2 Cellular retinoic acid-binding protein 2	164	15854	11	60.9
105	IPI00027970	Tax_Id=9606 Gene_Symbol=PCBP3 Isoform 1 of Poly(rC)-binding protein 3	160	36201	5	15.6
106	IPI00215965	Tax_Id=9606 Gene_Symbol=HNRNPA1 Isoform A1-B of Heterogeneous nuclear ribonucleoprotein A1	159	38936	7	11.3

107	IPI00783271	Tax.Id=9606 Gene.Symbol=LRPPRC Leucine-rich PPR motif-containing protein, mitochondrial	158	159003	10	9
108	IPI00014424	Tax.Id=9606 Gene.Symbol=EEF1A2 Elongation factor 1-alpha 2	157	50780	9	13.8
109	IPI00027107	Tax.Id=9606 Gene.Symbol=TUFM Tu translation elongation factor, mitochondrial precursor	157	50185	5	13.4
110	IPI00398057	Tax.Id=9606 Gene.Symbol=LOC389342 similar to QM protein isoform 6	156	24941	7	36
111	IPI00872214	Tax.Id=9606 Gene.Symbol=TBCA 16 kDa protein	155	15567	5	37.3
112	IPI00017726	Tax.Id=9606 Gene.Symbol=HSD17B10 Isoform 1 of 3-hydroxyacyl-CoA dehydrogenase type-2	151	27134	3	15.3
113	IPI00000494	Tax.Id=9606 Gene.Symbol=RPL5 60S ribosomal protein L5	149	34569	7	17.8
114	IPI00019906	Tax.Id=9606 Gene.Symbol=BSG Isoform 2 of Basigin	147	29431	3	12.6
115	IPI00026260	Tax.Id=9606 Gene.Symbol=NME2 Nucleoside diphosphate kinase B	145	17401	6	28.9
116	IPI00746388	Tax.Id=9606 Gene.Symbol=EZR Ezrin	145	69353	8	12.6
117	IPI00247583	Tax.Id=9606 Gene.Symbol=RPL21;LOC729402 60S ribosomal protein L21	143	18610	5	25.6
118	IPI00024145	Tax.Id=9606 Gene.Symbol=VDAC2 Voltage-dependent anion-selective channel protein 2	143	38639	5	12.4
119	IPI00024920	Tax.Id=9606 Gene.Symbol=ATP5D ATP synthase subunit delta, mitochondrial	142	17479	2	8.3
120	IPI00011200	Tax.Id=9606 Gene.Symbol=PHGDH D-3-phosphoglycerate dehydrogenase	142	57356	2	2.8
121	IPI00744706	Tax.Id=9606 Gene.Symbol=SPTAN1 282 kDa protein	141	282828	6	3.2
122	IPI00019812	Tax.Id=9606 Gene.Symbol=PPP5C Serine/threonine-protein phosphatase 5	140	57412	3	8.6
123	IPI00644712	Tax.Id=9606 Gene.Symbol=XRCC6 ATP-dependent DNA helicase 2 subunit 1	139	70084	6	9.7
124	IPI00555956	Tax.Id=9606 Gene.Symbol=PSMB4 Proteasome subunit beta type-4	137	29242	3	16.7
125	IPI00010204	Tax.Id=9606 Gene.Symbol=SFRS3 Splicing factor, arginine/serine-rich 3	137	19546	2	10.4
126	IPI00793443	Tax.Id=9606 Gene.Symbol=IPO5 importin 5	135	126946	5	2.9
127	IPI00296337	Tax.Id=9606 Gene.Symbol=PRKDC Isoform 1 of DNA-dependent protein kinase catalytic subunit	135	473749	12	3.1
128	IPI00215911	Tax.Id=9606 Gene.Symbol=APEX1 DNA-(apurinic or apyrimidinic site) lyase	135	35931	3	17
129	IPI00220642	Tax.Id=9606 Gene.Symbol=YWHAG 14-3-3 protein gamma	135	28456	9	30.8
130	IPI00382844	Tax.Id=9606 Gene.Symbol=- Aconitase (Fragment)	134	65934	4	4
131	IPI00291922	Tax.Id=9606 Gene.Symbol=PSMA5 Proteasome subunit alpha type-5	132	26565	3	10.8
132	IPI00335168	Tax.Id=9606 Gene.Symbol=MYL6;MYL6B Isoform Non-muscle of Myosin light polypeptide 6	132	17090	4	24.5
133	IPI00002966	Tax.Id=9606 Gene.Symbol=HSPA4 Heat shock 70 kDa protein 4	132	95096	7	9.6
134	IPI00025849	Tax.Id=9606 Gene.Symbol=ANP32A Acidic leucine-rich nuclear phosphoprotein 32 family member A	132	28682	8	22.9

135	IPI00010896	Tax_Id=9606 Gene_Symbol=CLIC1 Chloride intracellular channel protein 1	132	27248	4	23.7
136	IPI00290462	Tax_Id=9606 Gene_Symbol=CBR3 Carbonyl reductase [NADPH] 3	131	31230	2	5.8
137	IPI00028888	Tax_Id=9606 Gene_Symbol=HNRNPD Isoform 1 of Heterogeneous nuclear ribonucleoprotein D0	130	38581	5	20.8
138	IPI00789029	Tax_Id=9606 Gene_Symbol=NAP1L1 43 kDa protein	130	42963	4	10.6
139	IPI00027626	Tax_Id=9606 Gene_Symbol=CCT6A T-complex protein 1 subunit zeta	128	58444	7	16.9
140	IPI00844578	Tax_Id=9606 Gene_Symbol=DHX9 ATP-dependent RNA helicase A	128	142181	11	8
141	IPI00290566	Tax_Id=9606 Gene_Symbol=TCP1 T-complex protein 1 subunit alpha	127	60819	8	20
142	IPI00006196	Tax_Id=9606 Gene_Symbol=NUMA1 Isoform 2 of Nuclear mitotic apparatus protein 1	127	237456	8	3.8
143	IPI00216587	Tax_Id=9606 Gene_Symbol=RPS8 40S ribosomal protein S8	126	24475	4	26.4
144	IPI00300341	Tax_Id=9606 Gene_Symbol=TCEB1 Transcription elongation factor B polypeptide 1	126	12636	2	30.4
145	IPI00550363	Tax_Id=9606 Gene_Symbol=TAGLN2 Transgelin-2	125	22548	4	23.1
146	IPI00006482	Tax_Id=9606 Gene_Symbol=ATP1A1 Isoform Long of Sodium/potassium-transporting ATPase subunit alpha-1	124	114135	5	5.2
147	IPI00029744	Tax_Id=9606 Gene_Symbol=SSBP1 Single-stranded DNA-binding protein, mitochondrial	124	17249	4	16.2
148	IPI00001453	Tax_Id=9606 Gene_Symbol=INA Alpha-internexin	123	55528	6	15.2
149	IPI00031556	Tax_Id=9606 Gene_Symbol=U2AF2 Splicing factor U2AF 65 kDa subunit	121	53809	2	4.4
150	IPI00302927	Tax_Id=9606 Gene_Symbol=CCT4 T-complex protein 1 subunit delta	121	58401	7	14.5
151	IPI00013508	Tax_Id=9606 Gene_Symbol=ACTN1 Alpha-actinin-1	119	103563	7	10.3
152	IPI00299000	Tax_Id=9606 Gene_Symbol=PA2G4 Proliferation-associated protein 2G4	119	44101	6	12.7
153	IPI00295741	Tax_Id=9606 Gene_Symbol=CTSB Cathepsin B	118	38766	3	8.3
154	IPI00472119	Tax_Id=9606 Gene_Symbol=- Uncharacterized protein ENSP00000343748	118	30180	7	19.7
155	IPI00465225	Tax_Id=9606 Gene_Symbol=HNRNPL heterogeneous nuclear ribonucleoprotein L isoform b	117	51156	5	10.5
156	IPI00007682	Tax_Id=9606 Gene_Symbol=ATP6V1A Vacuolar ATP synthase catalytic subunit A	117	68660	4	7.6
157	IPI00337541	Tax_Id=9606 Gene_Symbol=NNT NAD(P) transhydrogenase, mitochondrial	116	114564	2	1.4
158	IPI00018206	Tax_Id=9606 Gene_Symbol=GOT2 Aspartate aminotransferase, mitochondrial	115	47844	5	12.1
159	IPI00719549	Tax_Id=9606 Gene_Symbol=RBM14 Transcriptional coactivator CoAZ	114	37410	2	9.4
160	IPI00465260	Tax_Id=9606 Gene_Symbol=GARS 85 kDa protein	114	85208	6	10.1
161	IPI00022462	Tax_Id=9606 Gene_Symbol=TFRC Transferrin receptor protein 1	114	85274	5	9.6

162	IPI00008524	Tax_Id=9606 Gene_Symbol=PABPC1 Isoform 1 of Polyadenylate-binding protein 1	114	70854	8	9.4
163	IPI00003881	Tax_Id=9606 Gene_Symbol=HNRNPF Heterogeneous nuclear ribonucleoprotein F	113	45985	2	3.9
164	IPI00550021	Tax_Id=9606 Gene_Symbol=RPL3 60S ribosomal protein L3	112	46365	6	10.9
165	IPI00298547	Tax_Id=9606 Gene_Symbol=PARK7 Protein DJ-1	111	20050	6	24.9
166	IPI00019329	Tax_Id=9606 Gene_Symbol=DYNLL1 Dynein light chain 1, cytoplasmic	111	10530	3	37.1
167	IPI00021700	Tax_Id=9606 Gene_Symbol=PCNA Proliferating cell nuclear antigen	111	29092	3	18
168	IPI00291483	Tax_Id=9606 Gene_Symbol=AKR1C3 Aldo-keto reductase family 1 member C3	110	37220	3	14.9
169	IPI00005737	Tax_Id=9606 Gene_Symbol=SURF4 Isoform 1 of Surfeit locus protein 4	109	30602	2	6.7
170	IPI00867509	Tax_Id=9606 Gene_Symbol=CORO1C Coronin-1C.i3 protein	109	59708	5	12.3
171	IPI00448169	Tax_Id=9606 Gene_Symbol=APOA1BP Apolipoprotein A-I binding protein	108	29060	2	15
172	IPI00013808	Tax_Id=9606 Gene_Symbol=ACTN4 Alpha-actinin-4	108	105245	4	5.5
173	IPI00017596	Tax_Id=9606 Gene_Symbol=MAPRE1 Microtubule-associated protein RP/EB family member 1	107	30151	4	18.3
174	IPI00011253	Tax_Id=9606 Gene_Symbol=RPS3 40S ribosomal protein S3	107	26842	3	17.7
175	IPI00001639	Tax_Id=9606 Gene_Symbol=KPNB1 Importin subunit beta-1	107	98420	8	7.8
176	IPI00025329	Tax_Id=9606 Gene_Symbol=RPL19 60S ribosomal protein L19	107	23565	2	8.7
177	IPI00011937	Tax_Id=9606 Gene_Symbol=PRDX4 Peroxiredoxin-4	106	30749	3	19.9
178	IPI00027442	Tax_Id=9606 Gene_Symbol=AARS Alanine-tRNA synthetase, cytoplasmic	106	107484	6	8
179	IPI00009104	Tax_Id=9606 Gene_Symbol=RUVBL2 RuvB-like 2	106	51296	3	7.8
180	IPI00479997	Tax_Id=9606 Gene_Symbol=STMN1 Stathmin	106	17292	8	36.9
181	IPI00479786	Tax_Id=9606 Gene_Symbol=KHSRP Isoform 1 of Far upstream element-binding protein 2	105	73443	5	7.2
182	IPI00384463	Tax_Id=9606 Gene_Symbol=EIF4G1 eukaryotic translation initiation factor 4 gamma, 1 isoform 2	103	167227	6	5.9
183	IPI00020632	Tax_Id=9606 Gene_Symbol=ASS1 Argininosuccinate synthase	102	51184	3	7.1
184	IPI00025273	Tax_Id=9606 Gene_Symbol=GART Isoform Long of Trifunctional purine biosynthetic protein adenosine-3	102	108953	5	5.6
185	IPI00018140	Tax_Id=9606 Gene_Symbol=SYNCRIP Isoform 1 of Heterogeneous nuclear ribonucleoprotein Q	101	69788	2	5.8
186	IPI00024919	Tax_Id=9606 Gene_Symbol=PRDX3 Thioredoxin-dependent peroxide reductase, mitochondrial	101	28017	2	9.8
187	IPI00156689	Tax_Id=9606 Gene_Symbol=VAT1 Synaptic vesicle membrane protein VAT-1 homolog	101	42122	3	6.9
188	IPI00398700	Tax_Id=9606 Gene_Symbol=GNAO1 Isoform Alpha-2 of Guanine nucleotide-binding protein G(o) subunit alpha	100	40574	3	10.7
189	IPI00411706	Tax_Id=9606 Gene_Symbol=ESD S-formylglutathione hydrolase	99	31956	2	4.3
190	IPI00219097	Tax_Id=9606 Gene_Symbol=HMGB2 High mobility group protein B2	99	24190	4	21.1

191	IPI00182757	Tax_Id=9606 Gene_Symbol=KIAA1967 Isoform 1 of Protein KIAA1967	98	103465	2	2.3
192	IPI00072377	Tax_Id=9606 Gene_Symbol=SET Isoform 1 of Protein SET	98	33469	2	4.5
193	IPI00000873	Tax_Id=9606 Gene_Symbol=VAR5 Valyl-tRNA synthetase	98	141642	2	2.5
194	IPI00010154	Tax_Id=9606 Gene_Symbol=GDI1 Rab GDP dissociation inhibitor alpha	98	51177	2	6.9
195	IPI00033130	Tax_Id=9606 Gene_Symbol=SAE1 SUMO-activating enzyme subunit 1	97	38882	3	10.1
196	IPI00010796	Tax_Id=9606 Gene_Symbol=P4HB Protein disulfide-isomerase	97	57480	4	15.4
197	IPI00020984	Tax_Id=9606 Gene_Symbol=CANX Calnexin	97	67982	3	6.9
198	IPI00216393	Tax_Id=9606 Gene_Symbol=CLTA Isoform Non-brain of Clathrin light chain A	96	23704	2	9.6
199	IPI00219757	Tax_Id=9606 Gene_Symbol=GSTP1 Glutathione S-transferase P	95	23569	4	27.6
200	IPI00022744	Tax_Id=9606 Gene_Symbol=CSE1L Isoform 1 of Exportin-2	95	111145	5	4.5
201	IPI00791920	Tax_Id=9606 Gene_Symbol=RPL23 13 kDa protein	94	13241	4	28.7
202	IPI00022891	Tax_Id=9606 Gene_Symbol=SLC25A4 ADP/ATP translocase 1	94	33271	1	5
203	IPI00013723	Tax_Id=9606 Gene_Symbol=PIN1 Peptidyl-prolyl cis-trans isomerase NIMA-interacting 1	94	18346	3	23.3
204	IPI00009328	Tax_Id=9606 Gene_Symbol=EIF4A3 Eukaryotic initiation factor 4A-III	94	47126	4	13.9
205	IPI00793696	Tax_Id=9606 Gene_Symbol=RPL24 19 kDa protein	94	19569	4	19
206	IPI00018522	Tax_Id=9606 Gene_Symbol=PRMT1 HMT1 hnRNP methyltransferase-like 2 isoform 1	93	43061	1	4.3
207	IPI00029631	Tax_Id=9606 Gene_Symbol=ERH Enhancer of rudimentary homolog	93	12422	1	16.3
208	IPI00031820	Tax_Id=9606 Gene_Symbol=FARSA Phenylalanyl-tRNA synthetase alpha chain	93	57585	4	9.3
209	IPI00015018	Tax_Id=9606 Gene_Symbol=PPA1 Inorganic pyrophosphatase	93	33095	5	28
210	IPI00013894	Tax_Id=9606 Gene_Symbol=STIP1 Stress-induced-phosphoprotein 1	93	63227	4	7.4
211	IPI00032826	Tax_Id=9606 Gene_Symbol=ST13 Hsc70-interacting protein	93	41477	4	13
212	IPI00220362	Tax_Id=9606 Gene_Symbol=HSPE1 10 kDa heat shock protein, mitochondrial	92	10925	4	37.3
213	IPI00024664	Tax_Id=9606 Gene_Symbol=USP5 Isoform Long of Ubiquitin carboxyl-terminal hydrolase 5	92	96638	2	4.3
214	IPI00017963	Tax_Id=9606 Gene_Symbol=SNRPD2 Small nuclear ribonucleoprotein Sm D2	91	13632	5	32.2
215	IPI00026185	Tax_Id=9606 Gene_Symbol=CAPZB Isoform 1 of F-actin-capping protein subunit beta	91	31616	2	10.1
216	IPI00003856	Tax_Id=9606 Gene_Symbol=ATP6V1E1 Vacuolar proton pump subunit E 1	91	26186	1	6.2
217	IPI00007423	Tax_Id=9606 Gene_Symbol=ANP32B Isoform 1 of Acidic leucine-rich nuclear phosphoprotein 32 family member B	91	28941	2	9.6
218	IPI00013296	Tax_Id=9606 Gene_Symbol=RPS18;LOC100130553 40S ribosomal protein S18	90	17708	3	19.7

219	IPI00000846	Tax_Id=9606 Gene_Symbol=CHD4 Isoform 1 of Chromodomain-helicase-DNA-binding protein 4	90	219393	6	3.3
220	IPI00418471	Tax_Id=9606 Gene_Symbol=VIM Vimentin	89	53676	5	13.3
221	IPI00025815	Tax_Id=9606 Gene_Symbol=TARDBP TDP43	89	45305	3	8.7
222	IPI00009480	Tax_Id=9606 Gene_Symbol=COPS8 COP9 signalosome complex subunit 8	89	23268	2	12.9
223	IPI00302850	Tax_Id=9606 Gene_Symbol=SNRPD1 Small nuclear ribonucleo-protein Sm D1	88	13273	1	10.9
224	IPI00012074	Tax_Id=9606 Gene_Symbol=HNRNPR Heterogeneous nuclear ribonucleoprotein R	88	71184	5	7.3
225	IPI00012750	Tax_Id=9606 Gene_Symbol=RPS25 40S ribosomal protein S25	87	13791	2	16
226	IPI00007797	Tax_Id=9606 Gene_Symbol=FABP5;FABP5L7 Fatty acid-binding protein, epidermal	87	15497	2	22.2
227	IPI00514587	Tax_Id=9606 Gene_Symbol=SARS Seryl-tRNA synthetase	86	61788	3	5.6
228	IPI00847579	Tax_Id=9606 Gene_Symbol=RPS12 ribosomal protein S12	86	14905	3	31.8
229	IPI00414860	Tax_Id=9606 Gene_Symbol=RPL37A 60S ribosomal protein L37a	85	10497	3	32.6
230	IPI00029133	Tax_Id=9606 Gene_Symbol=ATP5F1 ATP synthase subunit b, mitochondrial	85	28947	2	6.6
231	IPI00027485	Tax_Id=9606 Gene_Symbol=EIF4E Eukaryotic translation initiation factor 4E	85	25310	1	6.5
232	IPI00024993	Tax_Id=9606 Gene_Symbol=ECHS1 Enoyl-CoA hydratase, mitochondrial	84	31823	3	16.6
233	IPI00021187	Tax_Id=9606 Gene_Symbol=RUVBL1 Isoform 1 of RuvB-like 1	84	50538	3	8.6
234	IPI00025091	Tax_Id=9606 Gene_Symbol=RPS11 40S ribosomal protein S11	84	18590	3	22.8
235	IPI00015029	Tax_Id=9606 Gene_Symbol=PTGES3 Prostaglandin E synthase 3	83	18971	4	21.9
236	IPI00375441	Tax_Id=9606 Gene_Symbol=FUBP1 Isoform 1 of Far upstream element-binding protein 1	83	67690	5	9.2
237	IPI00328840	Tax_Id=9606 Gene_Symbol=THOC4 THO complex subunit 4	83	27541	2	12.5
238	IPI00395998	Tax_Id=9606 Gene_Symbol=RPL32 60S ribosomal protein L32	83	15964	2	14.8
239	IPI00017617	Tax_Id=9606 Gene_Symbol=DDX5 Probable ATP-dependent RNA helicase DDX5	83	69618	3	4.2
240	IPI00412607	Tax_Id=9606 Gene_Symbol=RPL35 60S ribosomal protein L35	82	14543	4	24.4
241	IPI00171903	Tax_Id=9606 Gene_Symbol=HNRNPM Isoform 1 of Heterogeneous nuclear ribonucleoprotein M	82	77749	6	11.2
242	IPI00301263	Tax_Id=9606 Gene_Symbol=CAD CAD protein	82	245167	5	2.7
243	IPI00021924	Tax_Id=9606 Gene_Symbol=H1FX Histone H1x	82	22474	1	5.6
244	IPI00013415	Tax_Id=9606 Gene_Symbol=RPS7 40S ribosomal protein S7	81	22113	5	23.2
245	IPI00293464	Tax_Id=9606 Gene_Symbol=DDB1 DNA damage-binding protein 1	81	128142	1	2.6
246	IPI00168184	Tax_Id=9606 Gene_Symbol=PPP2R1A cDNA FLJ34068 fis, clone FCBBF3001918, highly similar to SERINE/THREONINE PROTEIN PHOSPHATASE 2A, 65 kDa REGULATORY SUBUNIT A, ALPHA ISOFORM	81	57781	4	11
247	IPI00793687	Tax_Id=9606 Gene_Symbol=SUMO3 Uncharacterized protein SUMO3	80	15650	3	18.5

248	IPI00018349	Tax_Id=9606 Gene_Symbol=MCM4 DNA replication licensing factor MCM4	80	97068	2	3.4
249	IPI00011604	Tax_Id=9606 Gene_Symbol=GCSH;LOC730107 Glycine cleavage system H protein, mitochondrial	80	19127	2	17.9
250	IPI00335509	Tax_Id=9606 Gene_Symbol=DPYSL5 Dihydropyrimidinase-related protein 5	80	61952	2	2.5
251	IPI00794461	Tax_Id=9606 Gene_Symbol=HIST1H2BN Histone H2B type 1-N	80	18792	7	28.3
252	IPI00412579	Tax_Id=9606 Gene_Symbol=RPL10A 60S ribosomal protein L10a	79	24987	5	23
253	IPI00020956	Tax_Id=9606 Gene_Symbol=HDGF Hepatoma-derived growth factor	78	26886	4	14.6
254	IPI00554752	Tax_Id=9606 Gene_Symbol=PRKAR2B cAMP-dependent protein kinase type II-beta regulatory subunit	78	46716	2	9.1
255	IPI00218606	Tax_Id=9606 Gene_Symbol=RPS23 40S ribosomal protein S23	78	15969	4	21.7
256	IPI00010810	Tax_Id=9606 Gene_Symbol=ETFA Electron transfer flavoprotein subunit alpha, mitochondrial	78	35400	2	9.6
257	IPI00386755	Tax_Id=9606 Gene_Symbol=ERO1L ERO1-like protein alpha	76	55213	1	3
258	IPI00069058	Tax_Id=9606 Gene_Symbol=VGF VGF nerve growth factor inducible precursor	76	67275	4	9.8
259	IPI00217223	Tax_Id=9606 Gene_Symbol=PAICS Multifunctional protein ADE2	76	50389	4	7.5
260	IPI00384016	Tax_Id=9606 Gene_Symbol=DLST Full-length cDNA 5-PRIME end of clone CS0DJ009YL13 of T cells (Jurkat cell line) of Homo sapiens (Fragment)	75	29892	2	7.9
261	IPI00014808	Tax_Id=9606 Gene_Symbol=PAFAH1B3 Platelet-activating factor acetylhydrolase IB subunit gamma	75	25832	2	9.1
262	IPI00024933	Tax_Id=9606 Gene_Symbol=RPL12 Isoform 1 of 60S ribosomal protein L12	74	17979	2	18.2
263	IPI00299571	Tax_Id=9606 Gene_Symbol=PDIA6 Isoform 2 of Protein disulfide-isomerase A6	74	54380	2	7.1
264	IPI00019376	Tax_Id=9606 Gene_Symbol=SEPT11 Septin-11	74	49652	2	6.5
265	IPI00298788	Tax_Id=9606 Gene_Symbol=ILF3 Isoform 1 of Interleukin enhancer-binding factor 3	73	95678	2	5.4
266	IPI00219678	Tax_Id=9606 Gene_Symbol=EIF2S1 Eukaryotic translation initiation factor 2 subunit 1	73	36374	3	6
267	IPI00220327	Tax_Id=9606 Gene_Symbol=KRT1 Keratin, type II cytoskeletal 1	73	66149	8	11.5
268	IPI00647400	Tax_Id=9606 Gene_Symbol=RNPEP Uncharacterized protein RNPEP	73	68752	4	7.4
269	IPI00011229	Tax_Id=9606 Gene_Symbol=CTSD Cathepsin D	73	45037	1	4.4
270	IPI00018246	Tax_Id=9606 Gene_Symbol=HK1 Isoform 1 of Hexokinase-1	73	103561	4	5
271	IPI00007812	Tax_Id=9606 Gene_Symbol=ATP6V1B2 Vacuolar ATP synthase subunit B, brain isoform	72	56807	4	13.1
272	IPI00329801	Tax_Id=9606 Gene_Symbol=ANXA5 Annexin A5	71	35971	1	5
273	IPI00020599	Tax_Id=9606 Gene_Symbol=CALR Calreticulin	70	48283	3	8.2
274	IPI00023785	Tax_Id=9606 Gene_Symbol=DDX17 DEAD box polypeptide 17 isoform 1	68	80906	3	6

275	IPI00020194	Tax_Id=9606 Gene_Symbol=TAF15 Isoform Short of TATA-binding protein-associated factor 2N	68	61749	1	3.1
276	IPI00328753	Tax_Id=9606 Gene_Symbol=KTN1 Isoform 1 of Kinectin	68	156464	3	3.6
277	IPI00007188	Tax_Id=9606 Gene_Symbol=SLC25A5 ADP/ATP translocase 2	68	33102	3	8.1
278	IPI00789551	Tax_Id=9606 Gene_Symbol=MATR3 Uncharacterized protein MATR3	68	100419	5	7.9
279	IPI00306382	Tax_Id=9606 Gene_Symbol=SCAMP3 Isoform 1 of Secretory carrier-associated membrane protein 3	68	38693	1	3.7
280	IPI00001960	Tax_Id=9606 Gene_Symbol=CLIC4 Chloride intracellular channel protein 4	67	28982	3	9.1
281	IPI00217468	Tax_Id=9606 Gene_Symbol=HIST1H1B Histone H1.5	67	22566	3	14.6
282	IPI00215719	Tax_Id=9606 Gene_Symbol=RPL18 60S ribosomal protein L18	67	21735	2	6.4
283	IPI00872531	Tax_Id=9606 Gene_Symbol=- Uncharacterized protein ENSP00000383556	66	23439	5	21.5
284	IPI00005160	Tax_Id=9606 Gene_Symbol=ARPC1B Actin-related protein 2/3 complex subunit 1B	66	41722	1	5.1
285	IPI00221089	Tax_Id=9606 Gene_Symbol=RPS13 40S ribosomal protein S13	66	17212	2	17.9
286	IPI00025366	Tax_Id=9606 Gene_Symbol=CS Citrate synthase, mitochondrial	66	51908	2	4.3
287	IPI00219622	Tax_Id=9606 Gene_Symbol=PSMA2 Proteasome subunit alpha type-2	65	25996	2	4.3
288	IPI00002459	Tax_Id=9606 Gene_Symbol=ANXA6 annexin VI isoform 2	65	75571	6	12.4
289	IPI00217030	Tax_Id=9606 Gene_Symbol=RPS4X 40S ribosomal protein S4, X isoform	65	29807	3	9.9
290	IPI00012268	Tax_Id=9606 Gene_Symbol=PSMD2 26S proteasome non-ATPase regulatory subunit 2	65	100877	2	3.1
291	IPI00013452	Tax_Id=9606 Gene_Symbol=EPRS Bifunctional aminoacyl-tRNA synthetase	64	172137	8	7.1
292	IPI00180954	Tax_Id=9606 Gene_Symbol=CIRBP Cold-inducible RNA-binding protein	64	18637	4	34.3
293	IPI00293434	Tax_Id=9606 Gene_Symbol=SRP14 Signal recognition particle 14 kDa protein	64	14675	2	9.6
294	IPI00642816	Tax_Id=9606 Gene_Symbol=SRP9;hCG_1781062 Signal recognition particle 9 kDa protein	64	10219	4	47.7
295	IPI00010720	Tax_Id=9606 Gene_Symbol=CCT5 T-complex protein 1 subunit epsilon	64	60089	2	4.4
296	IPI00013949	Tax_Id=9606 Gene_Symbol=SGTA Small glutamine-rich tetratricopeptide repeat-containing protein alpha	63	34270	3	13.1
297	IPI00165393	Tax_Id=9606 Gene_Symbol=ANP32E Acidic leucine-rich nuclear phosphoprotein 32 family member E	63	30902	4	18.7
298	IPI00100656	Tax_Id=9606 Gene_Symbol=GPSN2 Isoform 1 of Synaptic glycoprotein SC2	63	36410	2	9.4
299	IPI00167572	Tax_Id=9606 Gene_Symbol=FAM98B Protein FAM98B	63	37566	1	3.6
300	IPI00218342	Tax_Id=9606 Gene_Symbol=MTHFD1 C-1-tetrahydrofolate synthase, cytoplasmic	63	102180	3	3.5
301	IPI00179589	Tax_Id=9606 Gene_Symbol=MTPN Myotrophin	63	14508	3	27.7

302	IPI00306516	Tax_Id=9606 Gene_Symbol=TIMM44 Mitochondrial import inner membrane translocase subunit TIM44	62	51666	1	2.7
303	IPI00011913	Tax_Id=9606 Gene_Symbol=HNRNPA0 Heterogeneous nuclear ribonucleoprotein A0	62	30993	2	11.1
304	IPI00292059	Tax_Id=9606 Gene_Symbol=NUP153 Nuclear pore complex protein Nup153	62	155391	2	2.2
305	IPI00328319	Tax_Id=9606 Gene_Symbol=RBBP4 Histone-binding protein RBBP4	62	47911	5	18.1
306	IPI00171611	Tax_Id=9606 Gene_Symbol=HIST2H3D;HIST2H3C;HIST2H3A Histone H3.2	62	15436	2	13.2
307	IPI00010178	Tax_Id=9606 Gene_Symbol=TH Isoform 3 of Tyrosine 3-monooxygenase	61	58887	2	5.5
308	IPI00028561	Tax_Id=9606 Gene_Symbol=KIF5C Kinesin heavy chain isoform 5C	61	109997	6	8.5
309	IPI00009342	Tax_Id=9606 Gene_Symbol=IQGAP1 Ras GTPase-activating-like protein IQGAP1	61	189761	2	1.6
310	IPI00020950	Tax_Id=9606 Gene_Symbol=PPM1A Isoform Alpha-1 of Protein phosphatase 1A	61	43048	2	6.3
311	IPI00013847	Tax_Id=9606 Gene_Symbol=UQCRC1 Cytochrome b-c1 complex subunit 1, mitochondrial	61	53297	2	5.8
312	IPI00334587	Tax_Id=9606 Gene_Symbol=HNRNPAB Isoform 2 of Heterogeneous nuclear ribonucleoprotein A/B	61	36059	2	5.7
313	IPI00027448	Tax_Id=9606 Gene_Symbol=ATP5L ATP synthase subunit g, mitochondrial	60	11421	1	11.7
314	IPI00785100	Tax_Id=9606 Gene_Symbol=MEF2D Myocyte enhancer factor 2D/deleted in azoospermia associated protein 1 fusion protein	60	50610	3	5.5
315	IPI00107555	Tax_Id=9606 Gene_Symbol=PFN2 Isoform IIB of Profilin-2	60	15421	2	25
316	IPI00246975	Tax_Id=9606 Gene_Symbol=GSTM3 Glutathione S-transferase Mu 3	60	26998	3	15.6
317	IPI00219005	Tax_Id=9606 Gene_Symbol=FKBP4 FK506-binding protein 4	60	52057	4	11.3
318	IPI00872387	Tax_Id=9606 Gene_Symbol=- Uncharacterized protein ENSP00000381447 (Fragment)	60	32455	9	22
319	IPI00024157	Tax_Id=9606 Gene_Symbol=FKBP3 FK506-binding protein 3	60	25218	3	16.5
320	IPI00424869	Tax_Id=9606 Gene_Symbol=RAP1GDS1 RAP1, GTP-GDP dissociation stimulator 1 isoform 6	59	57070	1	2.3
321	IPI00006362	Tax_Id=9606 Gene_Symbol=EDF1 Isoform 2 of Endothelial differentiation-related factor 1	59	15528	3	20.1
322	IPI00006865	Tax_Id=9606 Gene_Symbol=SEC22B Vesicle-trafficking protein SEC22b	59	24896	2	11.2
323	IPI00015947	Tax_Id=9606 Gene_Symbol=DNAJB1 DnaJ homolog subfamily B member 1	59	38191	1	4.7
324	IPI00005780	Tax_Id=9606 Gene_Symbol=OGT Isoform 3 of UDP-N-acetylglucosamine-peptide N-acetylglucosaminyltransferase 110 kDa subunit	59	118104	3	2.7
325	IPI00020042	Tax_Id=9606 Gene_Symbol=PSMC4 Isoform 1 of 26S protease regulatory subunit 6B	58	47451	1	4.3

326	IPI00221222	Tax.Id=9606 Gene.Symbol=SUB1 Activated RNA polymerase II transcriptional coactivator p15	58	14386	3	16.5	
327	IPI00220301	Tax.Id=9606 Gene.Symbol=PRDX6 Peroxiredoxin-6	57	25133	2	8.5	
328	IPI00218200	Tax.Id=9606 Gene.Symbol=BCAP31 B-cell receptor-associated protein 31	57	34901	5	13.1	
329	IPI00398135	Tax.Id=9606 Gene.Symbol=hCG_21078 hypothetical protein LOC389435	57	16726	1	8.1	
330	IPI00030243	Tax.Id=9606 Gene.Symbol=PSME3 Isoform 1 of Proteasome activator complex subunit 3	57	29602	1	5.1	
331	IPI00383449	Tax.Id=9606 Gene.Symbol=RAB15 Isoform 2 of Ras-related protein Rab-15	57	23731	3	14.9	
332	IPI00181306	Tax.Id=9606 Gene.Symbol=UBAP2L Isoform 3 of Ubiquitin-associated protein 2-like	57	112626	3	2.1	
333	IPI00465361	Tax.Id=9606 Gene.Symbol=RPL13 60S ribosomal protein L13	57	24304	4	8.1	
334	IPI00855924	Tax.Id=9606 Gene.Symbol=EIF5AL1;EIF5A Eukaryotic translation initiation factor 5A-1-like	57	16990	4	11.7	
335	IPI00027252	Tax.Id=9606 Gene.Symbol=PHB2 Prohibitin-2	57	33276	3	9.7	
336	IPI00216654	Tax.Id=9606 Gene.Symbol=NOLC1 Isoform Beta of Nucleolar phosphoprotein p130	56	74702	3	3.2	
337	IPI00008557	Tax.Id=9606 Gene.Symbol=IGF2BP1 Insulin-like growth factor 2 mRNA-binding protein 1	56	63759	3	5.5	
338	IPI00075248	Tax.Id=9606 Gene.Symbol=CALM3;CALM2;CALM1 Calmodulin	56	16827	1	8.1	
339	IPI00299024	Tax.Id=9606 Gene.Symbol=BASP1 Brain acid soluble protein 1	56	22680	2	23.3	
340	IPI00453473	Tax.Id=9606 Gene.Symbol=HIST2H4B;HIST1H4F;HIST1H4J;HIST1H4E;HIST2H4A;HIST1H4I	56	11360	3	30.1	
341	IPI00296053	Tax.Id=9606 Gene.Symbol=FBX7 Isoform Mitochondrial of Fumarate hydratase, mitochondrial	56	54773	4	5.1	
342	IPI00010105	Tax.Id=9606 Gene.Symbol=EIF6 Eukaryotic translation initiation factor 6	55	27095	1	5.7	
343	IPI00013214	Tax.Id=9606 Gene.Symbol=MCM3 DNA replication licensing factor MCM3	55	91551	4	4	
344	IPI00008433	Tax.Id=9606 Gene.Symbol=RPS5 40S ribosomal protein S5	55	23033	2	11.3	
345	IPI00008530	Tax.Id=9606 Gene.Symbol=RPLP0 60S acidic ribosomal protein P0	54	34423	2	5.7	
346	IPI00016786	Tax.Id=9606 Gene.Symbol=CDC42 Isoform 2 of Cell division control protein 42 homolog	54	21587	2	11	
347	IPI00289876	Tax.Id=9606 Gene.Symbol=STX7 Isoform 1 of Syntaxin-7	54	29911	2	9.6	
348	IPI00794549	Tax.Id=9606 Gene.Symbol=SHMT2 45 kDa protein	54	45158	2	5.4	
349	IPI00015361	Tax.Id=9606 Gene.Symbol=PFDN5 Prefoldin subunit 5	54	17374	3	28.6	
350	IPI00473014	Tax.Id=9606 Gene.Symbol=DSTN Destrin	54	18950	2	18.2	
351	IPI00011454	Tax.Id=9606 Gene.Symbol=GANAB Isoform 2 of Neutral alpha-glucosidase AB	54	109825	3	4	
352	IPI00010130	Tax.Id=9606 Gene.Symbol=GLUL Glutamine synthetase	53	42665	1	4	
353	IPI00413611	Tax.Id=9606 Gene.Symbol=TOP1 DNA topoisomerase 1	53	91125	4	7.2	

354	IPI00001734	Tax_Id=9606 Gene_Symbol=PSAT1 Isoform 1 of Phosphoserine aminotransferase	53	40796	6	10.5
355	IPI00011107	Tax_Id=9606 Gene_Symbol=IDH2 Isocitrate dehydrogenase [NADP], mitochondrial	53	51333	3	9.1
356	IPI00016339	Tax_Id=9606 Gene_Symbol=RAB5C Ras-related protein Rab-5C	53	23696	4	17.1
357	IPI00013234	Tax_Id=9606 Gene_Symbol=IARS IARS protein	53	121576	3	3.2
358	IPI00000811	Tax_Id=9606 Gene_Symbol=PSMB6 Proteasome subunit beta type-6	53	25570	1	4.6
359	IPI00742682	Tax_Id=9606 Gene_Symbol=TPR nuclear pore complex-associated protein TPR	53	267530	3	1.1
360	IPI00413641	Tax_Id=9606 Gene_Symbol=AKR1B1 Aldose reductase	52	36230	2	5.1
361	IPI00219156	Tax_Id=9606 Gene_Symbol=RPL30 60S ribosomal protein L30	52	12947	1	16.5
362	IPI00643000	Tax_Id=9606 Gene_Symbol=PRPS1 Phosphoribosyl pyrophosphate synthetase 1	52	18730	2	14.9
363	IPI00030320	Tax_Id=9606 Gene_Symbol=DDX6 Probable ATP-dependent RNA helicase DDX6	51	54781	1	5
364	IPI00743317	Tax_Id=9606 Gene_Symbol=- Similar to 60S ribosomal protein L31	51	5490	3	39.6
365	IPI00015102	Tax_Id=9606 Gene_Symbol=ALCAM Isoform 1 of CD166 antigen	51	65745	3	10.6
366	IPI00008529	Tax_Id=9606 Gene_Symbol=RPLP2 60S acidic ribosomal protein P2	51	11658	1	14.8
367	IPI00221394	Tax_Id=9606 Gene_Symbol=DKC1 H/ACA ribonucleoprotein complex subunit 4	51	58094	2	5.4
368	IPI00013679	Tax_Id=9606 Gene_Symbol=DUT Isoform DUT-M of Deoxyuridine 5 -triphosphate nucleotidohydrolase, mitochondrial	51	26975	2	10.3
369	IPI00220403	Tax_Id=9606 Gene_Symbol=HIST1H2BB Histone H2B type 1-B	51	13942	5	31.7
370	IPI00019472	Tax_Id=9606 Gene_Symbol=SLC1A5 Neutral amino acid transporter B(0)	51	57018	2	6.7
371	IPI00025100	Tax_Id=9606 Gene_Symbol=BCKDHA 2-oxoisovalerate dehydrogenase subunit alpha, mitochondrial	51	50724	1	3.1
372	IPI00425404	Tax_Id=9606 Gene_Symbol=KIF21A Isoform 1 of Kinesin-like protein KIF21A	50	188653	3	2.3
373	IPI00022431	Tax_Id=9606 Gene_Symbol=AHSG Alpha-2-HS-glycoprotein	49	40098	2	5.2
374	IPI00743305	Tax_Id=9606 Gene_Symbol=- Similar to 40S ribosomal protein S17	49	18006	3	14.4
375	IPI00411680	Tax_Id=9606 Gene_Symbol=PCMT1 Isoform 1 of Protein-L-isoaspartate(D-aspartate) O-methyltransferase	49	24806	2	4.8
376	IPI00003918	Tax_Id=9606 Gene_Symbol=RPL4 60S ribosomal protein L4	49	47953	3	8.7
377	IPI00028739	Tax_Id=9606 Gene_Symbol=NPHP1 Isoform 1 of Nephrocystin-1	49	83817	2	1.1
378	IPI00293126	Tax_Id=9606 Gene_Symbol=TBCB Tubulin folding cofactor B	49	27594	4	15.6
379	IPI00219301	Tax_Id=9606 Gene_Symbol=MARCKS Myristoylated alanine-rich C-kinase substrate	49	31707	2	6.9
380	IPI00395769	Tax_Id=9606 Gene_Symbol=ATP5C1 Isoform Heart of ATP synthase subunit gamma, mitochondrial	48	32917	2	8.1
381	IPI00022434	Tax_Id=9606 Gene_Symbol=ALB Uncharacterized protein ALB	48	73881	5	6.5
382	IPI00217975	Tax_Id=9606 Gene_Symbol=LMNB1 Lamin-B1	48	66653	2	1.9

383	IPI00306301	Tax.Id=9606 Gene.Symbol=PDHA1 Mitochondrial PDHA1	48	48290	2	2.1
384	IPI00069750	Tax.Id=9606 Gene.Symbol=PUF60 Isoform 1 of Poly(U)-binding-splicing factor PUF60	48	60009	2	1.8
385	IPI00383975	Tax.Id=9606 Gene.Symbol=CHGA Full-length cDNA clone CS0DN001YP04 of Adult brain of Homo sapiens (Fragment)	48	40716	2	8.2
386	IPI00456969	Tax.Id=9606 Gene.Symbol=DYNC1H1 Cytoplasmic dynein 1 heavy chain 1	48	534809	5	1.3
387	IPI00018627	Tax.Id=9606 Gene.Symbol=NAT13 Isoform 1 of N-acetyltransferase 13	48	19614	1	7.1
388	IPI00020021	Tax.Id=9606 Gene.Symbol=DEK Protein DEK	47	42933	2	7.2
389	IPI00005158	Tax.Id=9606 Gene.Symbol=LONP1 Lon protease homolog, mitochondrial	47	106936	2	3.5
390	IPI00375370	Tax.Id=9606 Gene.Symbol=SEC13 Protein SEC13 homolog	47	36347	2	7.1
391	IPI00026154	Tax.Id=9606 Gene.Symbol=PRKCSH Glucosidase 2 subunit beta	47	60357	2	4.4
392	IPI00397904	Tax.Id=9606 Gene.Symbol=NUP93 Nuclear pore complex protein Nup93	47	93943	1	1.3
393	IPI00075558	Tax.Id=9606 Gene.Symbol=LOC152663 similar to ribosomal protein L7a	47	32211	3	6
394	IPI00216804	Tax.Id=9606 Gene.Symbol=LUC7L2 Isoform 2 of Putative RNA-binding protein Luc7-like 2	46	46853	4	8.7
395	IPI00028055	Tax.Id=9606 Gene.Symbol=TMED10 Transmembrane emp24 domain-containing protein 10	46	25131	1	4.1
396	IPI00216298	Tax.Id=9606 Gene.Symbol=TXN Thioredoxin	46	12015	1	19
397	IPI00016910	Tax.Id=9606 Gene.Symbol=EIF3CL;EIF3C Eukaryotic translation initiation factor 3 subunit C	46	105962	3	3.2
398	IPI00395627	Tax.Id=9606 Gene.Symbol=CACYBP Isoform 1 of Calcyclin-binding protein	46	26308	3	17.5
399	IPI00026215	Tax.Id=9606 Gene.Symbol=FEN1 Flap endonuclease 1	46	42908	3	6.3
400	IPI00056357	Tax.Id=9606 Gene.Symbol=C19orf10 UPF0556 protein C19orf10	45	18897	1	8.7
401	IPI00395772	Tax.Id=9606 Gene.Symbol=MYH9 Putative uncharacterized protein DKFZp451J0218	45	155148	8	7.1
402	IPI00411559	Tax.Id=9606 Gene.Symbol=SMC4 Isoform 1 of Structural maintenance of chromosomes protein 4	45	147775	4	4.1
403	IPI00871453	Tax.Id=9606 Gene.Symbol=VCP 89 kDa protein	45	89996	3	5.5
404	IPI00215687	Tax.Id=9606 Gene.Symbol=GLS Isoform GAC of Glutaminase kidney isoform, mitochondrial	45	66216	2	6
405	IPI00029534	Tax.Id=9606 Gene.Symbol=PPAT Amidophosphoribosyltransferase	45	58161	1	2.7
406	IPI00073602	Tax.Id=9606 Gene.Symbol=EXOSC6 Exosome complex exonuclease MTR3	44	28503	1	5.9
407	IPI00737281	Tax.Id=9606 Gene.Symbol=LOC644567 similar to glutamate dehydrogenase 1	44	24639	1	9.7
408	IPI00044779	Tax.Id=9606 Gene.Symbol=RANP1 TC4 protein	44	12221	2	10.1
409	IPI00452731	Tax.Id=9606 Gene.Symbol=NDUFA7 NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 7	44	12601	2	17.7

410	IPI00641634	Tax_Id=9606 Gene_Symbol=BAT1 HLA-B associated transcript 1	44	26223	5	12.6
411	IPI00888051	Tax_Id=9606 Gene_Symbol=LOC283412 similar to ribosomal protein L29	44	17298	2	20.6
412	IPI00334190	Tax_Id=9606 Gene_Symbol=STOML2 Stomatin-like protein 2	43	38624	2	7.9
413	IPI00012442	Tax_Id=9606 Gene_Symbol=G3BP1 Ras GTPase-activating protein-binding protein 1	43	52189	2	6.9
414	IPI00015148	Tax_Id=9606 Gene_Symbol=RAP1B Ras-related protein Rap-1b	43	21040	2	13.6
415	IPI00006052	Tax_Id=9606 Gene_Symbol=PFDN2 Prefoldin subunit 2	43	16695	2	18.8
416	IPI00643041	Tax_Id=9606 Gene_Symbol=RAN GTP-binding nuclear protein Ran	42	24579	4	17.6
417	IPI00009904	Tax_Id=9606 Gene_Symbol=PDIA4 Protein disulfide-isomerase A4	42	73229	2	4.8
418	IPI00291608	Tax_Id=9606 Gene_Symbol=PCNP Isoform 1 of PEST proteolytic signal-containing nuclear protein	42	18913	2	15.2
419	IPI00017448	Tax_Id=9606 Gene_Symbol=RPS21 40S ribosomal protein S21	42	9220	1	21.7
420	IPI00334907	Tax_Id=9606 Gene_Symbol=PITPNB Isoform 1 of Phosphatidylinositol transfer protein beta isoform	42	31805	4	17
421	IPI00046057	Tax_Id=9606 Gene_Symbol=STXBP1 Isoform 2 of Syntaxin-binding protein 1	41	69091	4	7.6
422	IPI00647692	Tax_Id=9606 Gene_Symbol=CPNE1 Copine I	41	19691	2	12.6

SILAC2 high density fractions

Peak list format	Mascot generic
Search type	MIS
Mascot version	2.2.06
Database	IPI_human
Fasta file	ipi.HUMAN.v3.47.fasta
Total sequences	72082
Total residues	30228094
Sequences after taxonomy filter	72082
Number of queries	19347

Decoy

Number of matches above identity threshold in search of real database	11548
Number of matches above identity threshold in search of decoy database	38
Number of matches above homology threshold in search of real database	18034
Number of matches above homology threshold in search of decoy database	210

Variable modifications

Identifier	Name	Delta	Neutral loss(es)
1	Acetyl (Protein N-term)	42.010559	0
2	Deamidated (NQ)	0.984009	0
3	Oxidation (M)	15.994919	63.9983 0
4	Label:2H(4) (K)	4.025101	0
5	Label:13C(6) (R)	6.020126	0

Search Parameters

Taxonomy filter	All entries
Enzyme	Trypsin/P
Maximum Missed Cleavages	2
Fixed modifications	Carbamidomethyl (C)
Quantitation method	SILAC K+4 R+6
Variable modifications	Acetyl (Protein N-term),Deamidated (NQ),Oxidation (M)
Peptide Mass Tolerance	20
Peptide Mass Tolerance Units	ppm
Fragment Mass Tolerance	0.6
Fragment Mass Tolerance Units	Da
Mass values	Monoisotopic
Instrument type	ESI-TRAP
Isotope error mode	2
Decoy database also searched	1

Format parameters	
Significance threshold	0.05
Max. number of hits	0
Use MudPIT protein scoring	1
Ions score cut-off	0
Include same-set proteins	0
Include sub-set proteins	0
Include unassigned	0
Require bold red	1

Protein hits						
Protein number	hit	Accession	Description	Score	Mass	Matches
1		IPI00021440	Tax.Id=9606 Gene.Symbol=ACTG1 Actin, cytoplasmic 2	11544	42108	380
2		IPI00021439	Tax.Id=9606 Gene.Symbol=ACTB Actin, cytoplasmic 1	11379	42052	376
3		IPI00387144	Tax.Id=9606 Gene.Symbol=TUBA1B Tubulin alpha-1B chain	7432	50804	279
4		IPI00180675	Tax.Id=9606 Gene.Symbol=TUBA1A Tubulin alpha-1A chain	7394	50788	277
5		IPI00009865	Tax.Id=9606 Gene.Symbol=KRT10 Keratin, type I cytoskeletal 10	6227	59703	215
6		IPI00013164	Tax.Id=9606 Gene.Symbol=PRPH Isoform 1 of Peripherin	6182	53732	331
7		IPI00793184	Tax.Id=9606 Gene.Symbol=PRPH Isoform 2 of Peripherin	6060	53861	315
8		IPI00414676	Tax.Id=9606 Gene.Symbol=HSP90AB1 Heat shock protein HSP 90-beta	5511	83554	210
9		IPI00018534	Tax.Id=9606 Gene.Symbol=HIST1H2BL Histone H2B type 1-L	5364	13944	184
10		IPI00003935	Tax.Id=9606 Gene.Symbol=HIST2H2BE Histone H2B type 2-E	5332	13912	184
11		IPI00166293	Tax.Id=9606 Gene.Symbol=HIST3H2BB Histone H2B type 3-B	5306	13900	175
12		IPI00220327	Tax.Id=9606 Gene.Symbol=KRT1 Keratin, type II cytoskeletal 1	5288	66149	225
13		IPI00001453	Tax.Id=9606 Gene.Symbol=INA Alpha-internexin	5262	55528	195
14		IPI00021405	Tax.Id=9606 Gene.Symbol=LMNA Isoform A of Lamin-A/C	4719	74380	210
15		IPI00008868	Tax.Id=9606 Gene.Symbol=MAP1B Microtubule-associated protein 1B	4672	271651	225
16		IPI00449049	Tax.Id=9606 Gene.Symbol=PARP1 Poly [ADP-ribose] polymerase 1	4644	113811	240
17		IPI00026781	Tax.Id=9606 Gene.Symbol=FASN Fatty acid synthase	4472	275850	226
18		IPI00418471	Tax.Id=9606 Gene.Symbol=VIM Vimentin	4436	53676	206
19		IPI00217507	Tax.Id=9606 Gene.Symbol=NEFM Neurofilament medium polypeptide	4236	102444	231
20		IPI00011654	Tax.Id=9606 Gene.Symbol=TUBB Tubulin beta chain	4216	50095	287
21		IPI00007765	Tax.Id=9606 Gene.Symbol=HSPA9 Stress-70 protein, mitochondrial	4076	73920	188
22		IPI00006196	Tax.Id=9606 Gene.Symbol=NUMA1 Isoform 2 of Nuclear mitotic apparatus protein 1	4034	237456	233
23		IPI00292771	Tax.Id=9606 Gene.Symbol=NUMA1 Isoform 1 of Nuclear mitotic apparatus protein 1	4012	239199	235

24	IPI00479186	Tax_Id=9606 Gene_Symbol=PKM2 Isoform M2 of Pyruvate kinase isozymes M1/M2	3617	58470	170
25	IPI00007752	Tax_Id=9606 Gene_Symbol=TUBB2C Tubulin beta-2C chain	3572	50255	265
26	IPI00783271	Tax_Id=9606 Gene_Symbol=LRPPRC Leucine-rich PPR motif-containing protein, mitochondrial	3502	159003	185
27	IPI00396378	Tax_Id=9606 Gene_Symbol=HNRNPA2B1 Isoform B1 of Heterogeneous nuclear ribonucleoproteins A2/B1	3366	37464	72
28	IPI00005614	Tax_Id=9606 Gene_Symbol=SPTBN1 Isoform Long of Spectrin beta chain, brain 1	3359	275237	171
29	IPI00003865	Tax_Id=9606 Gene_Symbol=HSPA8 Isoform 1 of Heat shock cognate 71 kDa protein	3310	71082	176
30	IPI00744706	Tax_Id=9606 Gene_Symbol=SPTAN1 282 kDa protein	3294	282828	151
31	IPI00023598	Tax_Id=9606 Gene_Symbol=TUBB4 Tubulin beta-4 chain	3294	50010	237
32	IPI00453473	Tax_Id=9606 Gene_Symbol=HIST2H4B;HIST1H4F;HIST1H4J;HIST1H4K Histone H4	3293	11360	160
33	IPI00644712	Tax_Id=9606 Gene_Symbol=XRCC6 ATP-dependent DNA helicase 2 subunit 1	3254	70084	145
34	IPI00739539	Tax_Id=9606 Gene_Symbol=A26C1B ANKRD26-like family C member 1B	3114	122946	173
35	IPI00031370	Tax_Id=9606 Gene_Symbol=TUBB2B Tubulin beta-2B chain	3032	50377	246
36	IPI00013683	Tax_Id=9606 Gene_Symbol=TUBB3 Tubulin beta-3 chain	3030	50856	230
37	IPI00013475	Tax_Id=9606 Gene_Symbol=TUBB2A Tubulin beta-2A chain	2977	50274	245
38	IPI00021304	Tax_Id=9606 Gene_Symbol=KRT2 Keratin, type II cytoskeletal 2 epidermal	2752	66110	138
39	IPI00237671	Tax_Id=9606 Gene_Symbol=NEFL Neurofilament light polypeptide	2748	61536	151
40	IPI00171903	Tax_Id=9606 Gene_Symbol=HNRNPM Isoform 1 of Heterogeneous nuclear ribonucleoprotein M	2745	77749	185
41	IPI00019359	Tax_Id=9606 Gene_Symbol=KRT9 Keratin, type I cytoskeletal 9	2736	62320	96
42	IPI00219018	Tax_Id=9606 Gene_Symbol=GAPDH Glyceraldehyde-3-phosphate dehydrogenase	2663	36201	122
43	IPI00419585	Tax_Id=9606 Gene_Symbol=PPIA Peptidyl-prolyl cis-trans isomerase A	2624	18229	77
44	IPI00017617	Tax_Id=9606 Gene_Symbol=DDX5 Probable ATP-dependent RNA helicase DDX5	2611	69618	147
45	IPI00549248	Tax_Id=9606 Gene_Symbol=NPM1 Isoform 1 of Nucleophosmin	2579	32726	106
46	IPI00644079	Tax_Id=9606 Gene_Symbol=HNRNPU heterogeneous nuclear ribonucleoprotein U isoform a	2412	91269	115
47	IPI00855998	Tax_Id=9606 Gene_Symbol=CENPF Centromere protein F	2347	370844	213
48	IPI00440493	Tax_Id=9606 Gene_Symbol=ATP5A1 ATP synthase subunit alpha, mitochondrial	2309	59828	97
49	IPI00216587	Tax_Id=9606 Gene_Symbol=RPS8 40S ribosomal protein S8	2254	24475	77
50	IPI00651653	Tax_Id=9606 Gene_Symbol=DDX17 Isoform 3 of Probable ATP-dependent RNA helicase DDX17	2200	73138	127
51	IPI00021263	Tax_Id=9606 Gene_Symbol=YWHAZ 14-3-3 protein zeta/delta	2164	27899	88
52	IPI00000816	Tax_Id=9606 Gene_Symbol=YWHAE 14-3-3 protein epsilon	2142	29326	93

53	IPI00027107	Tax.Id=9606 Gene.Symbol=TUFM Tu translation elongation factor, mitochondrial precursor	2064	50185	77
54	IPI00303476	Tax.Id=9606 Gene.Symbol=ATP5B ATP synthase subunit beta, mitochondrial	2034	56525	107
55	IPI00013881	Tax.Id=9606 Gene.Symbol=HNRNPH1 Heterogeneous nuclear ribonucleoprotein H	2002	49484	75
56	IPI00026272	Tax.Id=9606 Gene.Symbol=HIST1H2AE;HIST1H2AB Histone H2A type 1-B	2000	14127	104
57	IPI00220834	Tax.Id=9606 Gene.Symbol=XRCC5 ATP-dependent DNA helicase 2 subunit 2	1998	83222	150
58	IPI00456969	Tax.Id=9606 Gene.Symbol=DYNC1H1 Cytoplasmic dynein 1 heavy chain 1	1992	534809	157
59	IPI00069058	Tax.Id=9606 Gene.Symbol=VGF VGF nerve growth factor inducible precursor	1984	67275	64
60	IPI00217975	Tax.Id=9606 Gene.Symbol=LMNB1 Lamin-B1	1925	66653	106
61	IPI00382470	Tax.Id=9606 Gene.Symbol=HSP90AA1 heat shock protein 90kDa alpha (cytosolic), class A member 1 isoform 1	1922	98670	105
62	IPI00414101	Tax.Id=9606 Gene.Symbol=TOP2A Isoform 2 of DNA topoisomerase 2-alpha	1879	178131	133
63	IPI00304925	Tax.Id=9606 Gene.Symbol=HSPA1B;HSPA1A Heat shock 70 kDa protein 1	1817	70294	105
64	IPI00026970	Tax.Id=9606 Gene.Symbol=SUPT16H FACT complex subunit SPT16	1784	120409	113
65	IPI00215637	Tax.Id=9606 Gene.Symbol=DDX3X ATP-dependent RNA helicase DDX3X	1774	73597	99
66	IPI00140420	Tax.Id=9606 Gene.Symbol=SND1 Staphylococcal nuclease domain-containing protein 1	1756	102618	89
67	IPI00479307	Tax.Id=9606 Gene.Symbol=MYH10 Isoform 2 of Myosin-10	1745	231603	114
68	IPI00001661	Tax.Id=9606 Gene.Symbol=RCC1 regulator of chromosome condensation 1 isoform a	1736	48685	67
69	IPI00302592	Tax.Id=9606 Gene.Symbol=FLNA filamin A, alpha isoform 1	1729	282581	111
70	IPI00413611	Tax.Id=9606 Gene.Symbol=TOP1 DNA topoisomerase 1	1719	91125	104
71	IPI00018146	Tax.Id=9606 Gene.Symbol=YWHAQ 14-3-3 protein theta	1705	28032	91
72	IPI00012066	Tax.Id=9606 Gene.Symbol=PCBP2 poly(rC) binding protein 2 isoform b	1677	38597	55
73	IPI00016610	Tax.Id=9606 Gene.Symbol=PCBP1 Poly(rC)-binding protein 1	1651	37987	49
74	IPI00220642	Tax.Id=9606 Gene.Symbol=YWHAG 14-3-3 protein gamma	1637	28456	70
75	IPI00472724	Tax.Id=9606 Gene.Symbol=EEF1A1;EEF1A1 Putative elongation factor 1-alpha-like 3	1629	50495	105
76	IPI00219757	Tax.Id=9606 Gene.Symbol=GSTP1 Glutathione S-transferase P	1619	23569	58
77	IPI00844578	Tax.Id=9606 Gene.Symbol=DHX9 ATP-dependent RNA helicase A	1581	142181	114
78	IPI00784154	Tax.Id=9606 Gene.Symbol=HSPD1 60 kDa heat shock protein, mitochondrial	1551	61187	76
79	IPI00394838	Tax.Id=9606 Gene.Symbol=ACLY ATP citrate lyase isoform 2	1525	120608	79

80	IPI00023006	Tax.Id=9606 Gene.Symbol=ACTC1 Actin, alpha cardiac muscle 1	1515	42334	168
81	IPI00008524	Tax.Id=9606 Gene.Symbol=PABPC1 Isoform 1 of Polyadenylate-binding protein 1	1515	70854	54
82	IPI00031522	Tax.Id=9606 Gene.Symbol=HADHA Trifunctional enzyme subunit alpha, mitochondrial	1505	83688	80
83	IPI00022977	Tax.Id=9606 Gene.Symbol=CKB Creatine kinase B-type	1500	42902	61
84	IPI00736859	Tax.Id=9606 Gene.Symbol=HNRNPUL1 Isoform 4 of Heterogeneous nuclear ribonucleoprotein U-like protein 1	1495	85311	59
85	IPI00018140	Tax.Id=9606 Gene.Symbol=SYNCRIP Isoform 1 of Heterogeneous nuclear ribonucleoprotein Q	1458	69788	88
86	IPI00012726	Tax.Id=9606 Gene.Symbol=PABPC4 Isoform 1 of Polyadenylate-binding protein 4	1402	71080	48
87	IPI00025491	Tax.Id=9606 Gene.Symbol=EIF4A1 Eukaryotic initiation factor 4A-I	1399	46353	63
88	IPI00641706	Tax.Id=9606 Gene.Symbol=TUBB6 46 kDa protein	1388	46248	116
89	IPI00216592	Tax.Id=9606 Gene.Symbol=HNRNPC Isoform C1 of Heterogeneous nuclear ribonucleoproteins C1/C2	1379	32375	64
90	IPI00216049	Tax.Id=9606 Gene.Symbol=HNRNPK Isoform 1 of Heterogeneous nuclear ribonucleoprotein K	1365	51230	67
91	IPI00169383	Tax.Id=9606 Gene.Symbol=PGK1 Phosphoglycerate kinase 1	1358	44985	58
92	IPI00216691	Tax.Id=9606 Gene.Symbol=PFN1 Profilin-1	1339	15216	64
93	IPI00024067	Tax.Id=9606 Gene.Symbol=CLTC Isoform 1 of Clathrin heavy chain 1	1312	193260	64
94	IPI00017726	Tax.Id=9606 Gene.Symbol=HSD17B10 Isoform 1 of 3-hydroxyacyl-CoA dehydrogenase type-2	1288	27134	60
95	IPI00217465	Tax.Id=9606 Gene.Symbol=HIST1H1C Histone H1.2	1275	21352	70
96	IPI00014177	Tax.Id=9606 Gene.Symbol=SEPT2 Septin-2	1265	41689	68
97	IPI00029081	Tax.Id=9606 Gene.Symbol=LIG3 ligase III, DNA, ATP-dependent isoform alpha precursor	1257	114317	73
98	IPI00296337	Tax.Id=9606 Gene.Symbol=PRKDC Isoform 1 of DNA-dependent protein kinase catalytic subunit	1256	473749	126
99	IPI00465248	Tax.Id=9606 Gene.Symbol=ENO1 Isoform alpha-enolase of Alpha-enolase	1252	47481	65
100	IPI00465439	Tax.Id=9606 Gene.Symbol=ALDOA Fructose-bisphosphate aldolase A	1252	39851	28
101	IPI00328840	Tax.Id=9606 Gene.Symbol=THOC4 THO complex subunit 4	1243	27541	48
102	IPI00301263	Tax.Id=9606 Gene.Symbol=CAD CAD protein	1236	245167	72
103	IPI00789551	Tax.Id=9606 Gene.Symbol=MATR3 Uncharacterized protein MATR3	1235	100419	66
104	IPI00219330	Tax.Id=9606 Gene.Symbol=ILF3 Isoform 5 of Interleukin enhancer-binding factor 3	1232	74959	66
105	IPI00163187	Tax.Id=9606 Gene.Symbol=FSCN1 Fascin	1232	55123	65
106	IPI00215719	Tax.Id=9606 Gene.Symbol=RPL18 60S ribosomal protein L18	1229	21735	45
107	IPI00186290	Tax.Id=9606 Gene.Symbol=EEF2 Elongation factor 2	1226	96246	94

108	IPI00003881	Tax.Id=9606 Gene.Symbol=HNRNPF Heterogeneous nuclear ribonucleoprotein F	1226	45985	45
109	IPI00012011	Tax.Id=9606 Gene.Symbol=CFL1 Cofilin-1	1220	18719	47
110	IPI00003918	Tax.Id=9606 Gene.Symbol=RPL4 60S ribosomal protein L4	1188	47953	60
111	IPI00759832	Tax.Id=9606 Gene.Symbol=YWHAB Isoform Short of 14-3-3 protein beta/alpha	1181	27947	64
112	IPI00719549	Tax.Id=9606 Gene.Symbol=RBM14 Transcriptional coactivator CoAZ	1180	37410	36
113	IPI00032003	Tax.Id=9606 Gene.Symbol=EMD Emerin	1180	29033	24
114	IPI00011107	Tax.Id=9606 Gene.Symbol=IDH2 Isocitrate dehydrogenase [NADP], mitochondrial	1177	51333	60
115	IPI00013174	Tax.Id=9606 Gene.Symbol=RBM14 Isoform 1 of RNA-binding protein 14	1175	69620	53
116	IPI00008380	Tax.Id=9606 Gene.Symbol=PPP2CA Serine/threonine-protein phosphatase 2A catalytic subunit alpha isoform	1166	36142	35
117	IPI00010810	Tax.Id=9606 Gene.Symbol=ETFA Electron transfer flavoprotein subunit alpha, mitochondrial	1138	35400	55
118	IPI00027834	Tax.Id=9606 Gene.Symbol=HNRNPL heterogeneous nuclear ribonucleoprotein L isoform a	1133	64720	82
119	IPI00218993	Tax.Id=9606 Gene.Symbol=HSPH1 Isoform Beta of Heat shock protein 105 kDa	1120	92970	71
120	IPI00289499	Tax.Id=9606 Gene.Symbol=ATIC Bifunctional purine biosynthesis protein PURH	1118	65089	57
121	IPI00026230	Tax.Id=9606 Gene.Symbol=HNRNPH2 Heterogeneous nuclear ribonucleoprotein H2	1109	49517	43
122	IPI00030363	Tax.Id=9606 Gene.Symbol=ACAT1 Acetyl-CoA acetyltransferase, mitochondrial	1101	45456	47
123	IPI00304655	Tax.Id=9606 Gene.Symbol=KIAA1712 Uncharacterized protein KIAA1712	1078	44625	37
124	IPI00016342	Tax.Id=9606 Gene.Symbol=RAB7A Ras-related protein Rab-7a	1068	23760	48
125	IPI00000873	Tax.Id=9606 Gene.Symbol=VAR5 Valyl-tRNA synthetase	1061	141642	63
126	IPI00030275	Tax.Id=9606 Gene.Symbol=TRAP1 Heat shock protein 75 kDa, mitochondrial	1061	80345	52
127	IPI00179473	Tax.Id=9606 Gene.Symbol=SQSTM1 Isoform 1 of Sequestosome-1	1058	48455	39
128	IPI00003362	Tax.Id=9606 Gene.Symbol=HSPA5 HSPA5 protein	1034	72492	76
129	IPI00555956	Tax.Id=9606 Gene.Symbol=PSMB4 Proteasome subunit beta type-4	1034	29242	22
130	IPI00025329	Tax.Id=9606 Gene.Symbol=RPL19 60S ribosomal protein L19	1034	23565	24
131	IPI00016801	Tax.Id=9606 Gene.Symbol=GLUD1 Glutamate dehydrogenase 1, mitochondrial	1033	61701	47
132	IPI00552715	Tax.Id=9606 Gene.Symbol=CCT3 chaperonin containing TCP1, subunit 3 isoform c	1001	56908	60
133	IPI00005154	Tax.Id=9606 Gene.Symbol=SSRP1 FACT complex subunit SSRP1	978	81367	54
134	IPI00604620	Tax.Id=9606 Gene.Symbol=NCL Isoform 1 of Nucleolin	969	76625	82

135	IPI00003443	Tax.Id=9606 Gene.Symbol=IFI16 Isoform 1 of Gamma-interferon-inducible protein Ifi-16	961	88656	62
136	IPI00059366	Tax.Id=9606 Gene.Symbol=H2AFY H2A histone family, member Y isoform 2	961	39635	40
137	IPI00008529	Tax.Id=9606 Gene.Symbol=RPLP2 60S acidic ribosomal protein P2	952	11658	42
138	IPI00304596	Tax.Id=9606 Gene.Symbol=NONO Non-POU domain-containing octamer-binding protein	931	54311	71
139	IPI00217030	Tax.Id=9606 Gene.Symbol=RPS4X 40S ribosomal protein S4, X isoform	928	29807	47
140	IPI00339269	Tax.Id=9606 Gene.Symbol=HSPA6 Heat shock 70 kDa protein 6	920	71440	54
141	IPI00384444	Tax.Id=9606 Gene.Symbol=KRT14 Keratin, type I cytoskeletal 14	919	51875	54
142	IPI00177817	Tax.Id=9606 Gene.Symbol=ATP2A2 Isoform SERCA2A of Sarcoplasmic/endoplasmic reticulum calcium ATPase 2	908	111103	46
143	IPI00018352	Tax.Id=9606 Gene.Symbol=UCHL1 Ubiquitin carboxyl-terminal hydrolase isozyme L1	897	25151	50
144	IPI00411559	Tax.Id=9606 Gene.Symbol=SMC4 Isoform 1 of Structural maintenance of chromosomes protein 4	895	147775	50
145	IPI00893902	Tax.Id=9606 Gene.Symbol=SEPT2 15 kDa protein	888	15431	39
146	IPI00045498	Tax.Id=9606 Gene.Symbol=HNRPDL Isoform 3 of Heterogeneous nuclear ribonucleoprotein D-like	888	27346	43
147	IPI00014266	Tax.Id=9606 Gene.Symbol=BRD3 Isoform 1 of Bromodomain-containing protein 3	885	79777	61
148	IPI00019329	Tax.Id=9606 Gene.Symbol=DYNLL1 Dynein light chain 1, cytoplasmic	879	10530	25
149	IPI00795618	Tax.Id=9606 Gene.Symbol=MYO1B 128 kDa protein	876	129426	55
150	IPI00001639	Tax.Id=9606 Gene.Symbol=KPNB1 Importin subunit beta-1	873	98420	57
151	IPI00304692	Tax.Id=9606 Gene.Symbol=RBMX Heterogeneous nuclear ribonucleoprotein G	850	42306	41
152	IPI00014398	Tax.Id=9606 Gene.Symbol=FHL1 Four and a half LIM domains 1 variant	844	35494	24
153	IPI00218342	Tax.Id=9606 Gene.Symbol=MTHFD1 C-1-tetrahydrofolate synthase, cytoplasmic	843	102180	57
154	IPI00425404	Tax.Id=9606 Gene.Symbol=KIF21A Isoform 1 of Kinesin-like protein KIF21A	835	188653	60
155	IPI00419373	Tax.Id=9606 Gene.Symbol=HNRNPA3 Isoform 1 of Heterogeneous nuclear ribonucleoprotein A3	830	39799	25
156	IPI00216319	Tax.Id=9606 Gene.Symbol=YWHAH 14-3-3 protein eta	829	28372	51
157	IPI00257508	Tax.Id=9606 Gene.Symbol=DPYSL2 Dihydropyrimidinase-related protein 2	812	62711	37
158	IPI00219097	Tax.Id=9606 Gene.Symbol=HMGB2 High mobility group protein B2	810	24190	37
159	IPI00479143	Tax.Id=9606 Gene.Symbol=PCNT Pericentrin	810	380644	109
160	IPI00011200	Tax.Id=9606 Gene.Symbol=PHGDH D-3-phosphoglycerate dehydrogenase	809	57356	31

161	IPI00419258	Tax.Id=9606 Gene.Symbol=HMGB1 High mobility group protein B1	804	25049	39
162	IPI00645078	Tax.Id=9606 Gene.Symbol=UBA1 Ubiquitin-like modifier-activating enzyme 1	798	118858	44
163	IPI00550239	Tax.Id=9606 Gene.Symbol=H1F0 Histone H1.0	798	20850	31
164	IPI00025252	Tax.Id=9606 Gene.Symbol=PDIA3 Protein disulfide-isomerase A3	783	57146	48
165	IPI00291006	Tax.Id=9606 Gene.Symbol=MDH2 Malate dehydrogenase, mitochondrial	781	35965	43
166	IPI00005198	Tax.Id=9606 Gene.Symbol=ILF2 Interleukin enhancer-binding factor 2	771	43263	44
167	IPI00179700	Tax.Id=9606 Gene.Symbol=HMGA1 Isoform HMG-I of High mobility group protein HMG-I/HMG-Y	771	11669	45
168	IPI00220994	Tax.Id=9606 Gene.Symbol=H2AFY2 Core histone macro-H2A.2	770	40261	29
169	IPI00291579	Tax.Id=9606 Gene.Symbol=KIF23 Isoform 1 of Kinesin-like protein KIF23	754	111016	57
170	IPI00029628	Tax.Id=9606 Gene.Symbol=RCN2 Reticulocalbin-2	743	36911	17
171	IPI00173549	Tax.Id=9606 Gene.Symbol=SYNPO2 synaptopodin 2 isoform a	742	136999	52
172	IPI00413108	Tax.Id=9606 Gene.Symbol=RPSA 33 kDa protein	738	33464	32
173	IPI00019502	Tax.Id=9606 Gene.Symbol=MYH9 Myosin-9	726	227646	50
174	IPI00008477	Tax.Id=9606 Gene.Symbol=TPX2 Targeting protein for Xklp2	721	86227	35
175	IPI00001159	Tax.Id=9606 Gene.Symbol=GCN1L1 Translational activator GCN1	704	294953	66
176	IPI00031552	Tax.Id=9606 Gene.Symbol=ELAVL3 Isoform 1 of ELAV-like protein 3	691	39693	35
177	IPI00002214	Tax.Id=9606 Gene.Symbol=LOC728860;KPNA2 Importin subunit alpha-2	690	58168	31
178	IPI00215965	Tax.Id=9606 Gene.Symbol=HNRNPA1 Isoform A1-B of Heterogeneous nuclear ribonucleoprotein A1	684	38936	38
179	IPI00012074	Tax.Id=9606 Gene.Symbol=HNRNPR Heterogeneous nuclear ribonucleoprotein R	682	71184	66
180	IPI00290684	Tax.Id=9606 Gene.Symbol=PNKP Bifunctional polynucleotide phosphatase/kinase	679	57554	17
181	IPI00010153	Tax.Id=9606 Gene.Symbol=RPL23 60S ribosomal protein L23	678	14970	35
182	IPI00299573	Tax.Id=9606 Gene.Symbol=RPL7A 60S ribosomal protein L7a	677	30148	42
183	IPI00855924	Tax.Id=9606 Gene.Symbol=EIF5AL1;EIF5A Eukaryotic translation initiation factor 5A-1-like	669	16990	35
184	IPI00217468	Tax.Id=9606 Gene.Symbol=HIST1H1B Histone H1.5	661	22566	40
185	IPI00556451	Tax.Id=9606 Gene.Symbol=ETFB Isoform 2 of Electron transfer flavoprotein subunit beta	660	37753	27
186	IPI00103994	Tax.Id=9606 Gene.Symbol=LARS Leucyl-tRNA synthetase, cytoplasmic	652	135577	32
187	IPI00221354	Tax.Id=9606 Gene.Symbol=FUS Isoform Short of RNA-binding protein FUS	651	53551	44
188	IPI00003348	Tax.Id=9606 Gene.Symbol=GNB2 Guanine nucleotide-binding protein G(I)/G(S)/G(T) subunit beta-2	650	38048	30

189	IPI00399318	Tax.Id=9606 Gene.Symbol=COPE epsilon subunit of coatomer protein complex isoform b	648	28950	16
190	IPI00411937	Tax.Id=9606 Gene.Symbol=NOL5A Nucleolar protein 5A	645	66408	39
191	IPI00642971	Tax.Id=9606 Gene.Symbol=EEF1D eukaryotic translation elongation factor 1 delta isoform 1	644	71820	30
192	IPI00848226	Tax.Id=9606 Gene.Symbol=GNB2L1 Guanine nucleotide-binding protein subunit beta-2-like 1	644	35511	44
193	IPI00010740	Tax.Id=9606 Gene.Symbol=SFPQ Isoform Long of Splicing factor, proline- and glutamine-rich	643	76216	54
194	IPI00300725	Tax.Id=9606 Gene.Symbol=KRT6A Keratin, type II cytoskeletal 6A	641	60293	48
195	IPI00646304	Tax.Id=9606 Gene.Symbol=PPIB peptidylprolyl isomerase B precursor	635	23785	30
196	IPI00179964	Tax.Id=9606 Gene.Symbol=PTBP1 Isoform 1 of Polypyrimidine tract-binding protein 1	629	57357	25
197	IPI00306332	Tax.Id=9606 Gene.Symbol=RPL24 60S ribosomal protein L24	622	17882	41
198	IPI00020984	Tax.Id=9606 Gene.Symbol=CANX Calnexin	618	67982	34
199	IPI00013214	Tax.Id=9606 Gene.Symbol=MCM3 DNA replication licensing factor MCM3	617	91551	37
200	IPI00011253	Tax.Id=9606 Gene.Symbol=RPS3 40S ribosomal protein S3	616	26842	32
201	IPI00877938	Tax.Id=9606 Gene.Symbol=IARS isoleucyl-tRNA synthetase	613	145718	46
202	IPI00478231	Tax.Id=9606 Gene.Symbol=RHOA Transforming protein RhoA	612	22096	20
203	IPI00000041	Tax.Id=9606 Gene.Symbol=RHOB Rho-related GTP-binding protein RhoB	611	22565	19
204	IPI00216744	Tax.Id=9606 Gene.Symbol=DCX Doublecortex	610	50386	28
205	IPI00216171	Tax.Id=9606 Gene.Symbol=ENO2 Gamma-enolase	607	47581	34
206	IPI00301503	Tax.Id=9606 Gene.Symbol=SFRS10 Isoform 1 of Splicing factor, arginine/serine-rich 10	604	33760	33
207	IPI00297579	Tax.Id=9606 Gene.Symbol=CBX3;LOC653972 Chromobox protein homolog 3	599	20969	30
208	IPI00334713	Tax.Id=9606 Gene.Symbol=HNRNPAB Isoform 3 of Heterogeneous nuclear ribonucleoprotein A/B	597	30683	34
209	IPI00014424	Tax.Id=9606 Gene.Symbol=EEF1A2 Elongation factor 1-alpha 2	590	50780	58
210	IPI00013508	Tax.Id=9606 Gene.Symbol=ACTN1 Alpha-actinin-1	584	103563	47
211	IPI00552897	Tax.Id=9606 Gene.Symbol=MDC1 Isoform 1 of Mediator of DNA damage checkpoint protein 1	582	227669	54
212	IPI00294536	Tax.Id=9606 Gene.Symbol=STRAP Serine-threonine kinase receptor-associated protein	577	38756	19
213	IPI00006663	Tax.Id=9606 Gene.Symbol=ALDH2 Aldehyde dehydrogenase, mitochondrial	576	56859	25
214	IPI00022228	Tax.Id=9606 Gene.Symbol=HDLBP Vigilin	575	141979	37
215	IPI00024933	Tax.Id=9606 Gene.Symbol=RPL12 Isoform 1 of 60S ribosomal protein L12	572	17979	21
216	IPI00375358	Tax.Id=9606 Gene.Symbol=RFC1 Isoform 1 of Replication factor C subunit 1	567	128688	44

217	IPI00740545	Tax.Id=9606 Gene.Symbol=LOC653269 similar to protein ex- pressed in prostate, ovary, testis, and placenta 2 isoform 2	563	122858	55
218	IPI00382516	Tax.Id=9606 Gene.Symbol=PRMT1 HMT1 hnRNP methyltransferase-like 2 isoform 3	561	41149	23
219	IPI00645192	Tax.Id=9606 Gene.Symbol=MECP2 Isoform B of Methyl-CpG- binding protein 2	560	53462	29
220	IPI00297779	Tax.Id=9606 Gene.Symbol=CCT2 T-complex protein 1 subunit beta	558	57794	41
221	IPI00005978	Tax.Id=9606 Gene.Symbol=SFRS2 Splicing factor, arginine/serine-rich 2	558	25461	30
222	IPI00178440	Tax.Id=9606 Gene.Symbol=EEF1B2 Elongation factor 1-beta	555	24919	19
223	IPI00011229	Tax.Id=9606 Gene.Symbol=CTSD Cathepsin D	553	45037	17
224	IPI00006510	Tax.Id=9606 Gene.Symbol=TUBB1 Tubulin beta-1 chain	551	50865	50
225	IPI00013877	Tax.Id=9606 Gene.Symbol=HNRNPH3 Isoform 1 of Heteroge- neous nuclear ribonucleoprotein H3	546	36960	23
226	IPI00026268	Tax.Id=9606 Gene.Symbol=GNB1 Guanine nucleotide-binding protein G(I)/G(S)/G(T) subunit beta-1	543	38151	32
227	IPI00021924	Tax.Id=9606 Gene.Symbol=H1FX Histone H1x	542	22474	29
228	IPI00177716	Tax.Id=9606 Gene.Symbol=HMGA1 Isoform HMG-Y of High mobility group protein HMG-I/HMG-Y	540	10673	30
229	IPI00215687	Tax.Id=9606 Gene.Symbol=GLS Isoform GAC of Glutaminase kidney isoform, mitochondrial	540	66216	24
230	IPI00289159	Tax.Id=9606 Gene.Symbol=GLS Isoform KGA of Glutaminase kidney isoform, mitochondrial	530	74269	22
231	IPI00003704	Tax.Id=9606 Gene.Symbol=RBM4 Isoform 1 of RNA-binding protein 4	530	40688	18
232	IPI00300631	Tax.Id=9606 Gene.Symbol=SAFB Scaffold attachment factor B1	528	103036	24
233	IPI00178352	Tax.Id=9606 Gene.Symbol=FLNC Isoform 1 of Filamin-C	527	293344	52
234	IPI00302925	Tax.Id=9606 Gene.Symbol=CCT8 59 kDa protein	518	60011	24
235	IPI00017855	Tax.Id=9606 Gene.Symbol=ACO2 Aconitate hydratase, mito- chondrial	515	86113	34
236	IPI00025273	Tax.Id=9606 Gene.Symbol=GART Isoform Long of Trifunctional purine biosynthetic protein adenosine-3	512	108953	27
237	IPI00384689	Tax.Id=9606 Gene.Symbol=PDXDC1 Isoform 1 of Pyridoxal- dependent decarboxylase domain-containing protein 1	511	87565	26
238	IPI00021187	Tax.Id=9606 Gene.Symbol=RUVBL1 Isoform 1 of RuvB-like 1	509	50538	38
239	IPI00014439	Tax.Id=9606 Gene.Symbol=QDPR Dihydropteridine reductase	505	26001	11
240	IPI00477150	Tax.Id=9606 Gene.Symbol=HNRNPD 36 kDa protein	504	36613	41
241	IPI00002966	Tax.Id=9606 Gene.Symbol=HSPA4 Heat shock 70 kDa protein 4	503	95096	39
242	IPI00027280	Tax.Id=9606 Gene.Symbol=TOP2B Isoform Beta-2 of DNA topoisomerase 2-beta	501	184122	41
243	IPI00012901	Tax.Id=9606 Gene.Symbol=GATA3 Isoform 1 of Trans-acting T- cell-specific transcription factor GATA-3	497	48570	20
244	IPI00029631	Tax.Id=9606 Gene.Symbol=ERH Enhancer of rudimentary ho- molog	497	12422	18

245	IPI00006482	Tax.Id=9606 Gene.Symbol=ATP1A1 Isoform Long of Sodium/potassium-transporting ATPase subunit alpha-1	497	114135	21
246	IPI00009328	Tax.Id=9606 Gene.Symbol=EIF4A3 Eukaryotic initiation factor 4A-III	495	47126	30
247	IPI00000875	Tax.Id=9606 Gene.Symbol=EEF1G Elongation factor 1-gamma	493	50429	23
248	IPI00022744	Tax.Id=9606 Gene.Symbol=CSE1L Isoform 1 of Exportin-2	492	111145	30
249	IPI00513758	Tax.Id=9606 Gene.Symbol=ELAVL4 ELAV (Embryonic lethal, abnormal vision, Drosophila)-like 4	491	42657	26
250	IPI00290566	Tax.Id=9606 Gene.Symbol=TCP1 T-complex protein 1 subunit alpha	491	60819	36
251	IPI00376798	Tax.Id=9606 Gene.Symbol=RPL11 Isoform 1 of 60S ribosomal protein L11	488	20468	16
252	IPI00217963	Tax.Id=9606 Gene.Symbol=KRT16 Keratin, type I cytoskeletal 16	487	51578	33
253	IPI00008964	Tax.Id=9606 Gene.Symbol=RAB1B Ras-related protein Rab-1B	482	22328	28
254	IPI00027988	Tax.Id=9606 Gene.Symbol=CTCF Transcriptional repressor CTCF	481	84272	22
255	IPI00450235	Tax.Id=9606 Gene.Symbol=YBX1 Nuclease sensitive element binding protein-1	481	34707	17
256	IPI00009867	Tax.Id=9606 Gene.Symbol=KRT5 Keratin, type II cytoskeletal 5	480	62568	34
257	IPI00218236	Tax.Id=9606 Gene.Symbol=PPP1CB Serine/threonine-protein phosphatase PP1-beta catalytic subunit	479	37961	24
258	IPI00297211	Tax.Id=9606 Gene.Symbol=SMARCA5 SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily A member 5	474	122513	36
259	IPI00024175	Tax.Id=9606 Gene.Symbol=PSMA7 Isoform 1 of Proteasome subunit alpha type-7	473	28041	17
260	IPI00844264	Tax.Id=9606 Gene.Symbol=CSDE1 Putative uncharacterized protein DKFZp779B0247	471	91239	30
261	IPI00021840	Tax.Id=9606 Gene.Symbol=RPS6 40S ribosomal protein S6	468	28834	38
262	IPI00029623	Tax.Id=9606 Gene.Symbol=PSMA6 Proteasome subunit alpha type-6	465	27838	11
263	IPI00009771	Tax.Id=9606 Gene.Symbol=LMNB2 Lamin-B2	465	70020	46
264	IPI00001654	Tax.Id=9606 Gene.Symbol=PCM1 Isoform 3 of Pericentriolar material 1 protein	462	233894	68
265	IPI00300371	Tax.Id=9606 Gene.Symbol=SF3B3 Isoform 1 of Splicing factor 3B subunit 3	459	136575	17
266	IPI00061114	Tax.Id=9606 Gene.Symbol=RAB3C Ras-related protein Rab-3C	457	26164	26
267	IPI00219156	Tax.Id=9606 Gene.Symbol=RPL30 60S ribosomal protein L30	456	12947	27
268	IPI00033561	Tax.Id=9606 Gene.Symbol=RNPS1 Isoform 1 of RNA-binding protein with serine-rich domain 1	449	34188	15
269	IPI00295485	Tax.Id=9606 Gene.Symbol=HSPA4L Heat shock 70 kDa protein 4L	448	95453	21
270	IPI00299402	Tax.Id=9606 Gene.Symbol=PC Pyruvate carboxylase, mitochondrial	447	130293	30

271	IPI00291510	Tax.Id=9606 Gene.Symbol=IMPDH2 Inosine-5 -monophosphate dehydrogenase 2	446	56226	36
272	IPI00018931	Tax.Id=9606 Gene.Symbol=VPS35 Vacuolar protein sorting-associated protein 35	445	92447	30
273	IPI00335168	Tax.Id=9606 Gene.Symbol=MYL6;MYL6B Isoform Non-muscle of Myosin light polypeptide 6	443	17090	26
274	IPI00018398	Tax.Id=9606 Gene.Symbol=PSMC3 26S protease regulatory subunit 6A	441	49458	39
275	IPI00554737	Tax.Id=9606 Gene.Symbol=PPP2R1A Serine/threonine-protein phosphatase 2A 65 kDa regulatory subunit A alpha isoform	437	66065	24
276	IPI00160622	Tax.Id=9606 Gene.Symbol=CEP250 Isoform 1 of Centrosome-associated protein CEP250	437	281880	98
277	IPI00783982	Tax.Id=9606 Gene.Symbol=COPG Coatomer subunit gamma	423	98967	25
278	IPI00027497	Tax.Id=9606 Gene.Symbol=GPI Glucose-6-phosphate isomerase	422	63335	21
279	IPI00018465	Tax.Id=9606 Gene.Symbol=CCT7 T-complex protein 1 subunit eta	422	59842	18
280	IPI00550882	Tax.Id=9606 Gene.Symbol=PYCR1 Pyrroline-5-carboxylate reductase 1, mitochondrial	421	33568	30
281	IPI00097492	Tax.Id=9606 Gene.Symbol=ZNF512 Zinc finger protein 512	420	65655	27
282	IPI00216139	Tax.Id=9606 Gene.Symbol=SEPT6 Isoform I of Septin-6	413	49184	41
283	IPI00218187	Tax.Id=9606 Gene.Symbol=PPP1CC Isoform Gamma-2 of Serine/threonine-protein phosphatase PP1-gamma catalytic subunit	412	39235	26
284	IPI00797230	Tax.Id=9606 Gene.Symbol=RPL8 32 kDa protein	410	32073	24
285	IPI00377261	Tax.Id=9606 Gene.Symbol=FUBP3 Isoform 1 of Far upstream element-binding protein 3	407	61944	35
286	IPI00007928	Tax.Id=9606 Gene.Symbol=PRPF8 Pre-mRNA-processing-splicing factor 8	407	274738	53
287	IPI00027442	Tax.Id=9606 Gene.Symbol=AARS Alanyl-tRNA synthetase, cytoplasmic	406	107484	39
288	IPI00030357	Tax.Id=9606 Gene.Symbol=DHFR Dihydrofolate reductase	404	21496	20
289	IPI00465361	Tax.Id=9606 Gene.Symbol=RPL13 60S ribosomal protein L13	399	24304	34
290	IPI00008557	Tax.Id=9606 Gene.Symbol=IGF2BP1 Insulin-like growth factor 2 mRNA-binding protein 1	396	63759	30
291	IPI00006865	Tax.Id=9606 Gene.Symbol=SEC22B Vesicle-trafficking protein SEC22b	392	24896	12
292	IPI00027230	Tax.Id=9606 Gene.Symbol=HSP90B1 Endoplasmic	389	92696	29
293	IPI00028122	Tax.Id=9606 Gene.Symbol=PSIP1 Isoform 1 of PC4 and SFRS1-interacting protein	387	60181	44
294	IPI00872707	Tax.Id=9606 Gene.Symbol=CEP152 CEP152 protein	383	191005	42
295	IPI00219217	Tax.Id=9606 Gene.Symbol=LDHB L-lactate dehydrogenase B chain	382	36900	33
296	IPI00299904	Tax.Id=9606 Gene.Symbol=MCM7 Isoform 1 of DNA replication licensing factor MCM7	382	81884	28
297	IPI00761082	Tax.Id=9606 Gene.Symbol=PRR6 Isoform 1 of Proline-rich protein 6	379	30383	21

298	IPI00010204	Tax_Id=9606 Gene_Symbol=SFRS3 Splicing factor, arginine/serine-rich 3	375	19546	18
299	IPI00004233	Tax_Id=9606 Gene_Symbol=MKI67 Isoform Long of Antigen KI-67	373	360698	84
300	IPI00026302	Tax_Id=9606 Gene_Symbol=RPL31 60S ribosomal protein L31	372	14454	18
301	IPI00029750	Tax_Id=9606 Gene_Symbol=RPS24 Isoform 1 of 40S ribosomal protein S24	372	15413	17
302	IPI00027626	Tax_Id=9606 Gene_Symbol=CCT6A T-complex protein 1 subunit zeta	368	58444	24
303	IPI00299000	Tax_Id=9606 Gene_Symbol=PA2G4 Proliferation-associated protein 2G4	368	44101	27
304	IPI00029019	Tax_Id=9606 Gene_Symbol=UBAP2L Isoform 2 of Ubiquitin-associated protein 2-like	367	105085	21
305	IPI00013723	Tax_Id=9606 Gene_Symbol=PIN1 Peptidyl-prolyl cis-trans isomerase NIMA-interacting 1	364	18346	11
306	IPI00215914	Tax_Id=9606 Gene_Symbol=ARF1 ADP-ribosylation factor 1	364	20741	21
307	IPI00658000	Tax_Id=9606 Gene_Symbol=IGF2BP3 Isoform 1 of Insulin-like growth factor 2 mRNA-binding protein 3	361	64023	35
308	IPI00009104	Tax_Id=9606 Gene_Symbol=RUVBL2 RuvB-like 2	361	51296	25
309	IPI00219153	Tax_Id=9606 Gene_Symbol=RPL22 60S ribosomal protein L22	361	14835	19
310	IPI00220281	Tax_Id=9606 Gene_Symbol=GNAO1 Isoform Alpha-1 of Guanine nucleotide-binding protein G(o) subunit alpha	360	40595	13
311	IPI00008530	Tax_Id=9606 Gene_Symbol=RPLP0 60S acidic ribosomal protein P0	359	34423	20
312	IPI00006379	Tax_Id=9606 Gene_Symbol=NOP5/NOP58 Nucleolar protein 5	359	60054	21
313	IPI00845507	Tax_Id=9606 Gene_Symbol=LOC641293 Similar to 60S ribosomal protein L21	357	18590	34
314	IPI00215884	Tax_Id=9606 Gene_Symbol=SFRS1 Isoform ASF-1 of Splicing factor, arginine/serine-rich 1	356	27842	21
315	IPI00246975	Tax_Id=9606 Gene_Symbol=GSTM3 Glutathione S-transferase Mu 3	354	26998	26
316	IPI00095891	Tax_Id=9606 Gene_Symbol=GNAS Isoform XLas-1 of Guanine nucleotide-binding protein G(s) subunit alpha isoforms XLas	354	111697	35
317	IPI00018278	Tax_Id=9606 Gene_Symbol=H2AFV Histone H2A.V	353	13501	30
318	IPI00465028	Tax_Id=9606 Gene_Symbol=TPI1 Isoform 1 of Triosephosphate isomerase	352	31057	23
319	IPI00008433	Tax_Id=9606 Gene_Symbol=RPS5 40S ribosomal protein S5	351	23033	16
320	IPI00006754	Tax_Id=9606 Gene_Symbol=WDR68 WD repeat-containing protein 68	350	39528	10
321	IPI00008527	Tax_Id=9606 Gene_Symbol=RPLP1 60S acidic ribosomal protein P1	348	11621	16
322	IPI00026202	Tax_Id=9606 Gene_Symbol=RPL18A 60S ribosomal protein L18a	348	21034	15
323	IPI00028098	Tax_Id=9606 Gene_Symbol=CCND1 G1/S-specific cyclin-D1	346	34448	27
324	IPI00010154	Tax_Id=9606 Gene_Symbol=GDI1 Rab GDP dissociation inhibitor alpha	344	51177	14

325	IPI00216230	Tax.Id=9606 Gene.Symbol=TMPO Lamina-associated polypeptide 2 isoform alpha	343	76016	26
326	IPI00021926	Tax.Id=9606 Gene.Symbol=PSMC6 26S protease regulatory subunit S10B	341	44430	21
327	IPI00218620	Tax.Id=9606 Gene.Symbol=SON Isoform D of SON protein	340	267281	35
328	IPI00025512	Tax.Id=9606 Gene.Symbol=HSPB1 Heat shock protein beta-1	340	22826	12
329	IPI00021435	Tax.Id=9606 Gene.Symbol=PSMC2 26S protease regulatory subunit 7	339	49002	19
330	IPI00013452	Tax.Id=9606 Gene.Symbol=EPRS Bifunctional aminoacyl-tRNA synthetase	337	172137	42
331	IPI00784614	Tax.Id=9606 Gene.Symbol=SEPT9 Isoform 1 of Septin-9	336	65646	31
332	IPI00015953	Tax.Id=9606 Gene.Symbol=DDX21 Isoform 1 of Nucleolar RNA helicase 2	335	87804	33
333	IPI00329039	Tax.Id=9606 Gene.Symbol=CDK5RAP2 Isoform 2 of CDK5 regulatory subunit-associated protein 2	333	212776	46
334	IPI00025091	Tax.Id=9606 Gene.Symbol=RPS11 40S ribosomal protein S11	332	18590	19
335	IPI00303207	Tax.Id=9606 Gene.Symbol=ABCE1 ATP-binding cassette subfamily E member 1	332	68240	18
336	IPI00419979	Tax.Id=9606 Gene.Symbol=PAK2 Serine/threonine-protein kinase PAK 2	328	58324	11
337	IPI00398135	Tax.Id=9606 Gene.Symbol=hCG_21078 hypothetical protein LOC389435	327	16726	30
338	IPI00289907	Tax.Id=9606 Gene.Symbol=FYTTD1 Forty-two-three domain-containing protein 1	326	35834	18
339	IPI00013808	Tax.Id=9606 Gene.Symbol=ACTN4 Alpha-actinin-4	325	105245	26
340	IPI00873228	Tax.Id=9606 Gene.Symbol=PFAH1B1 Uncharacterized protein PFAH1B1 (Fragment)	324	47140	21
341	IPI00025019	Tax.Id=9606 Gene.Symbol=PSMB1 Proteasome subunit beta type-1	322	26700	18
342	IPI00339384	Tax.Id=9606 Gene.Symbol=RDH11 Isoform 1 of Retinol dehydrogenase 11	321	35763	16
343	IPI00015947	Tax.Id=9606 Gene.Symbol=DNAJB1 DnaJ homolog subfamily B member 1	320	38191	17
344	IPI00001539	Tax.Id=9606 Gene.Symbol=ACAA2 3-ketoacyl-CoA thiolase, mitochondrial	319	42354	14
345	IPI00011126	Tax.Id=9606 Gene.Symbol=PSMC1 26S protease regulatory subunit 4	318	49325	21
346	IPI00793119	Tax.Id=9606 Gene.Symbol=TKT 39 kDa protein	316	39205	20
347	IPI00220493	Tax.Id=9606 Gene.Symbol=LSM5 U6 snRNA-associated Sm-like protein LSM5	314	9988	9
348	IPI00221222	Tax.Id=9606 Gene.Symbol=SUB1 Activated RNA polymerase II transcriptional coactivator p15	310	14386	21
349	IPI00023919	Tax.Id=9606 Gene.Symbol=PSMC5 26S protease regulatory subunit 8	309	45768	25
350	IPI00007334	Tax.Id=9606 Gene.Symbol=ACIN1 Isoform 1 of Apoptotic chromatin condensation inducer in the nucleus	306	152196	40

351	IPI00021751	Tax.Id=9606 Gene.Symbol=NEFH Neurofilament heavy polypeptide	305	112640	34
352	IPI00556376	Tax.Id=9606 Gene.Symbol=CRMP1 collapsin response mediator protein 1 isoform 1	305	74558	23
353	IPI00014808	Tax.Id=9606 Gene.Symbol=PAFAH1B3 Platelet-activating factor acetylhydrolase IB subunit gamma	305	25832	13
354	IPI00413344	Tax.Id=9606 Gene.Symbol=CFL2 Cofilin-2	302	18839	14
355	IPI00855984	Tax.Id=9606 Gene.Symbol=ODF2 Isoform 2 of Outer dense fiber protein 2	301	89151	32
356	IPI00217477	Tax.Id=9606 Gene.Symbol=HMGB3 High mobility group protein B3	300	23137	22
357	IPI00022793	Tax.Id=9606 Gene.Symbol=HADHB Trifunctional enzyme subunit beta, mitochondrial	299	51547	21
358	IPI00012535	Tax.Id=9606 Gene.Symbol=DNAJA1 DnaJ homolog subfamily A member 1	298	45581	17
359	IPI00019463	Tax.Id=9606 Gene.Symbol=EIF2AK2 Interferon-induced, double-stranded RNA-activated protein kinase	298	62512	17
360	IPI00152946	Tax.Id=9606 Gene.Symbol=RACGAP1 Rac GTPase-activating protein 1	297	71666	18
361	IPI00000494	Tax.Id=9606 Gene.Symbol=RPL5 60S ribosomal protein L5	295	34569	9
362	IPI00420014	Tax.Id=9606 Gene.Symbol=ASCC3L1 Isoform 1 of U5 small nuclear ribonucleoprotein 200 kDa helicase	294	246006	29
363	IPI00010796	Tax.Id=9606 Gene.Symbol=P4HB Protein disulfide-isomerase	291	57480	15
364	IPI00010178	Tax.Id=9606 Gene.Symbol=TH Isoform 3 of Tyrosine 3-monooxygenase	290	58887	14
365	IPI00291093	Tax.Id=9606 Gene.Symbol=POLR2E DNA-directed RNA polymerases I, II, and III subunit RPABC1	289	24650	11
366	IPI00029744	Tax.Id=9606 Gene.Symbol=SSBP1 Single-stranded DNA-binding protein, mitochondrial	288	17249	15
367	IPI00794907	Tax.Id=9606 Gene.Symbol=GATA2 GATA2 protein	287	49645	16
368	IPI00221234	Tax.Id=9606 Gene.Symbol=ALDH7A1 aldehyde dehydrogenase 7 family, member A1	286	59020	15
369	IPI00893541	Tax.Id=9606 Gene.Symbol=PDIA3 14 kDa protein	285	13739	15
370	IPI00290142	Tax.Id=9606 Gene.Symbol=CTPS CTP synthase 1	285	67332	12
371	IPI00291916	Tax.Id=9606 Gene.Symbol=PHIP PH-interacting protein	282	208285	48
372	IPI00008982	Tax.Id=9606 Gene.Symbol=ALDH18A1 Isoform Long of Delta-1-pyrroline-5-carboxylate synthetase	282	87989	18
373	IPI00023860	Tax.Id=9606 Gene.Symbol=NAP1L1 Nucleosome assembly protein 1-like 1	280	45631	13
374	IPI00001960	Tax.Id=9606 Gene.Symbol=CLIC4 Chloride intracellular channel protein 4	280	28982	16
375	IPI00016249	Tax.Id=9606 Gene.Symbol=FXR1 Isoform 1 of Fragile X mental retardation syndrome-related protein 1	280	70020	20
376	IPI00015018	Tax.Id=9606 Gene.Symbol=PPA1 Inorganic pyrophosphatase	279	33095	8
377	IPI00456492	Tax.Id=9606 Gene.Symbol=CROCC Isoform 1 of Rootletin	277	228787	51
378	IPI00554723	Tax.Id=9606 Gene.Symbol=RPL10 60S ribosomal protein L10	274	25044	24

379	IPI00304612	Tax_Id=9606 Gene_Symbol=RPL13A 60S ribosomal protein L13a	273	23619	18
380	IPI00024662	Tax_Id=9606 Gene_Symbol=CBX5 Chromobox protein homolog 5	273	22382	15
381	IPI00375704	Tax_Id=9606 Gene_Symbol=PSMB5 29 kDa protein	273	28962	12
382	IPI00012007	Tax_Id=9606 Gene_Symbol=AHCY Adenosylhomocysteinase	273	48255	22
383	IPI00030179	Tax_Id=9606 Gene_Symbol=RPL7 60S ribosomal protein L7	272	29264	23
384	IPI00000874	Tax_Id=9606 Gene_Symbol=PRDX1 Peroxiredoxin-1	272	22324	28
385	IPI00019996	Tax_Id=9606 Gene_Symbol=SLTM modulator of estrogen induced transcription isoform b	272	115625	25
386	IPI00328161	Tax_Id=9606 Gene_Symbol=FKBP8 Isoform 2 of FK506-binding protein 8	272	45077	11
387	IPI00395748	Tax_Id=9606 Gene_Symbol=ACOT7 acyl-CoA thioesterase 7 isoform hBACHa	270	40886	20
388	IPI00789698	Tax_Id=9606 Gene_Symbol=PTGES3 19 kDa protein	270	19335	11
389	IPI00219420	Tax_Id=9606 Gene_Symbol=SMC3 Structural maintenance of chromosomes protein 3	270	141853	56
390	IPI00291928	Tax_Id=9606 Gene_Symbol=RAB14 Ras-related protein Rab-14	269	24110	22
391	IPI00029048	Tax_Id=9606 Gene_Symbol=TTLL12 Tubulin-tyrosine ligase-like protein 12	266	75154	17
392	IPI00746388	Tax_Id=9606 Gene_Symbol=EZR Ezrin	264	69353	16
393	IPI00020599	Tax_Id=9606 Gene_Symbol=CALR Calreticulin	264	48283	15
394	IPI00641829	Tax_Id=9606 Gene_Symbol=BAT1 Isoform 2 of Spliceosome RNA helicase BAT1	260	51103	13
395	IPI00026625	Tax_Id=9606 Gene_Symbol=NUP155 Isoform 1 of Nuclear pore complex protein Nup155	260	156697	11
396	IPI00017963	Tax_Id=9606 Gene_Symbol=SNRPD2 Small nuclear ribonucleoprotein Sm D2	258	13632	18
397	IPI00013079	Tax_Id=9606 Gene_Symbol=EMILIN1 EMILIN-1	258	107941	26
398	IPI00791156	Tax_Id=9606 Gene_Symbol=KRT13 31 kDa protein	257	30866	28
399	IPI00029733	Tax_Id=9606 Gene_Symbol=AKR1C1 Aldo-keto reductase family 1 member C1	256	37221	19
400	IPI00016014	Tax_Id=9606 Gene_Symbol=ITM2C Isoform 1 of Integral membrane protein 2C	254	30547	8
401	IPI00221091	Tax_Id=9606 Gene_Symbol=RPS15A 40S ribosomal protein S15a	254	14944	15
402	IPI00069817	Tax_Id=9606 Gene_Symbol=BAZ1B Isoform 1 of Bromodomain adjacent to zinc finger domain protein 1B	253	172392	40
403	IPI00844513	Tax_Id=9606 Gene_Symbol=- Similar to Chain , Heat-Shock Cognate 70kd Protein (44kd Atpase N-Terminal) (E.C.3.6.1.3) Mutant With Asp 206 Replaced By Ser	253	25582	14
404	IPI00793443	Tax_Id=9606 Gene_Symbol=IPO5 importin 5	253	126946	26
405	IPI00033025	Tax_Id=9606 Gene_Symbol=SEPT7 Isoform 1 of Septin-7	252	51062	33
406	IPI00031397	Tax_Id=9606 Gene_Symbol=ACSL3 Long-chain-fatty-acid-CoA ligase 3	251	81338	27
407	IPI00216951	Tax_Id=9606 Gene_Symbol=DARS Aspartyl-tRNA synthetase, cytoplasmic	249	57499	15

408	IPI00000877	Tax_Id=9606 Gene_Symbol=HYOU1 Hypoxia up-regulated protein 1	249	111494	22
409	IPI00215919	Tax_Id=9606 Gene_Symbol=ARF5 ADP-ribosylation factor 5	247	20631	15
410	IPI00760940	Tax_Id=9606 Gene_Symbol=LOC723972 Hepatopoietin PCn127	247	28173	6
411	IPI00893746	Tax_Id=9606 Gene_Symbol=NHP2L1 NHP2 non-histone chromo-some protein 2-like 1	245	14846	15
412	IPI00022434	Tax_Id=9606 Gene_Symbol=ALB Uncharacterized protein ALB	245	73881	19
413	IPI00024871	Tax_Id=9606 Gene_Symbol=CBFB core-binding factor, beta sub-unit isoform 1	241	22206	7
414	IPI00023526	Tax_Id=9606 Gene_Symbol=RAB6A Isoform 1 of Ras-related protein Rab-6A	241	23692	18
415	IPI00412737	Tax_Id=9606 Gene_Symbol=WARS tryptophanyl-tRNA synthetase isoform b	236	49163	9
416	IPI00220473	Tax_Id=9606 Gene_Symbol=ATP2C1 Isoform 2 of Calcium-transporting ATPase type 2C member 1	236	97981	12
417	IPI00293126	Tax_Id=9606 Gene_Symbol=TBCB Tubulin folding cofactor B	234	27594	14
418	IPI00034049	Tax_Id=9606 Gene_Symbol=UPF1 Isoform 1 of Regulator of non-sense transcripts 1	234	125578	18
419	IPI00783855	Tax_Id=9606 Gene_Symbol=NBR1 neighbor of BRCA1 gene 1	232	108486	19
420	IPI00013495	Tax_Id=9606 Gene_Symbol=ABCF1 Isoform 2 of ATP-binding cassette sub-family F member 1	231	92080	23
421	IPI00554761	Tax_Id=9606 Gene_Symbol=HMGN1 Non-histone chromosomal protein HMG-14	231	10653	13
422	IPI00016250	Tax_Id=9606 Gene_Symbol=FXR2 Fragile X mental retardation syndrome-related protein 2	231	77424	12
423	IPI00016910	Tax_Id=9606 Gene_Symbol=EIF3CL;EIF3C Eukaryotic translation initiation factor 3 subunit C	230	105962	15
424	IPI00107555	Tax_Id=9606 Gene_Symbol=PFN2 Isoform IIb of Profilin-2	227	15421	12
425	IPI00009253	Tax_Id=9606 Gene_Symbol=NAPA Alpha-soluble NSF attachment protein	227	33667	15
426	IPI00012268	Tax_Id=9606 Gene_Symbol=PSMD2 26S proteasome non-ATPase regulatory subunit 2	227	100877	22
427	IPI00014577	Tax_Id=9606 Gene_Symbol=RAB18 Ras-related protein Rab-18	227	23248	15
428	IPI00215911	Tax_Id=9606 Gene_Symbol=APEX1 DNA-(apurinic or apyrimidinic site) lyase	225	35931	18
429	IPI00410226	Tax_Id=9606 Gene_Symbol=BOLA2;BOLA2B Isoform 2 of BolA-like protein 2	223	7008	8
430	IPI00001734	Tax_Id=9606 Gene_Symbol=PSAT1 Isoform 1 of Phosphoserine aminotransferase	223	40796	17
431	IPI00293533	Tax_Id=9606 Gene_Symbol=NUP62 Nuclear pore glycoprotein p62	222	53394	9
432	IPI00242630	Tax_Id=9606 Gene_Symbol=HEATR2 Isoform 1 of HEAT repeat-containing protein 2	222	94786	14
433	IPI00328306	Tax_Id=9606 Gene_Symbol=ZC3H11A Zinc finger CCCH domain-containing protein 11A	222	89931	9

434	IPI00031556	Tax.Id=9606 Gene.Symbol=U2AF2 Splicing factor U2AF 65 kDa subunit	220	53809	20
435	IPI00299301	Tax.Id=9606 Gene.Symbol=DMN Isoform 1 of Desmuslin	220	173005	35
436	IPI00105598	Tax.Id=9606 Gene.Symbol=PSMD11 Proteasome 26S non-ATPase subunit 11 variant (Fragment)	220	47790	16
437	IPI00396060	Tax.Id=9606 Gene.Symbol=CCDC14 coiled-coil domain containing 14	220	102427	14
438	IPI00295857	Tax.Id=9606 Gene.Symbol=COPA Coatomer subunit alpha	220	139783	14
439	IPI00016513	Tax.Id=9606 Gene.Symbol=RAB10 Ras-related protein Rab-10	219	22755	18
440	IPI00019376	Tax.Id=9606 Gene.Symbol=SEPT11 Septin-11	219	49652	39
441	IPI00396370	Tax.Id=9606 Gene.Symbol=EIF3B Isoform 1 of Eukaryotic translation initiation factor 3 subunit B	218	92833	28
442	IPI00013891	Tax.Id=9606 Gene.Symbol=TRA2A Isoform Long of Transformer-2 protein homolog	218	32726	20
443	IPI00647400	Tax.Id=9606 Gene.Symbol=RNPEP Uncharacterized protein RNPEP	216	68752	22
444	IPI00019912	Tax.Id=9606 Gene.Symbol=HSD17B4 Peroxisomal multifunctional enzyme type 2	215	80092	17
445	IPI00219718	Tax.Id=9606 Gene.Symbol=RBPI Retinol-binding protein I, cellular	214	22524	19
446	IPI00299608	Tax.Id=9606 Gene.Symbol=PSMD1 Isoform 1 of 26S proteasome non-ATPase regulatory subunit 1	213	106795	16
447	IPI00027996	Tax.Id=9606 Gene.Symbol=CORO7;Magma Coronin-7	212	101596	14
448	IPI00295992	Tax.Id=9606 Gene.Symbol=ATAD3A Isoform 2 of ATPase family AAA domain-containing protein 3A	211	66291	30
449	IPI00298625	Tax.Id=9606 Gene.Symbol=LYN Isoform LYN A of Tyrosine-protein kinase Lyn	211	58993	14
450	IPI00328431	Tax.Id=9606 Gene.Symbol=UNC5B Isoform 1 of Netrin receptor UNC5B	210	105567	13
451	IPI00554590	Tax.Id=9606 Gene.Symbol=RAB3GAP2 Isoform 1 of Rab3 GTPase-activating protein non-catalytic subunit	210	157482	12
452	IPI00006451	Tax.Id=9606 Gene.Symbol=NSF Vesicle-fusing ATPase	209	83021	19
453	IPI00410067	Tax.Id=9606 Gene.Symbol=ZC3HAV1 Isoform 1 of Zinc finger CCCH-type antiviral protein 1	209	103148	17
454	IPI00011603	Tax.Id=9606 Gene.Symbol=PSMD3 26S proteasome non-ATPase regulatory subunit 3	208	61054	17
455	IPI00003377	Tax.Id=9606 Gene.Symbol=SFRS7 Isoform 1 of Splicing factor, arginine/serine-rich 7	207	27578	6
456	IPI00397191	Tax.Id=9606 Gene.Symbol=LOC650157 similar to peptidyl-Pro cis trans isomerase	207	30137	10
457	IPI00010720	Tax.Id=9606 Gene.Symbol=CCT5 T-complex protein 1 subunit epsilon	206	60089	26
458	IPI00026358	Tax.Id=9606 Gene.Symbol=GABARAPL2 Gamma-aminobutyric acid receptor-associated protein-like 2	206	13715	9
459	IPI00005613	Tax.Id=9606 Gene.Symbol=U2AF1 Splicing factor U2AF 35 kDa subunit	206	28368	9

460	IPI00002564	Tax.Id=9606 Gene.Symbol=XRCC1 DNA-repair protein XRCC1	205	69825	16
461	IPI00465044	Tax.Id=9606 Gene.Symbol=RCC2 Protein RCC2	204	56790	16
462	IPI00375446	Tax.Id=9606 Gene.Symbol=ITPA inosine triphosphatase isoform b	204	19990	7
463	IPI00302927	Tax.Id=9606 Gene.Symbol=CCT4 T-complex protein 1 subunit delta	202	58401	22
464	IPI00005826	Tax.Id=9606 Gene.Symbol=HERC2 Probable E3 ubiquitin-protein ligase HERC2	200	533697	48
465	IPI00719446	Tax.Id=9606 Gene.Symbol=C14orf145 Isoform 2 of Uncharacterized protein C14orf145	200	128565	32
466	IPI00471951	Tax.Id=9606 Gene.Symbol=LOC441528;XXbac-BPG181B23.1;MICA;LOC100133382;HLA-A;HLA-B;HLA-C;LOC728687 HLA class I histocompatibility antigen, Cw-15 alpha chain	199	41293	12
467	IPI00032230	Tax.Id=9606 Gene.Symbol=EPB41L3 Isoform A of Band 4.1-like protein 3	199	121458	8
468	IPI00021700	Tax.Id=9606 Gene.Symbol=PCNA Proliferating cell nuclear antigen	198	29092	16
469	IPI00002821	Tax.Id=9606 Gene.Symbol=RPL14 60S ribosomal protein L14	198	23389	16
470	IPI00792971	Tax.Id=9606 Gene.Symbol=IDH3A Isoform 2 of Isocitrate dehydrogenase [NAD] subunit alpha, mitochondrial	196	31817	10
471	IPI00373877	Tax.Id=9606 Gene.Symbol=ZNF326 Isoform 1 of Zinc finger protein 326	194	65955	10
472	IPI00054042	Tax.Id=9606 Gene.Symbol=GTF2I Isoform 1 of General transcription factor II-I	194	112859	18
473	IPI00026271	Tax.Id=9606 Gene.Symbol=RPS14 40S ribosomal protein S14	193	16434	16
474	IPI00006113	Tax.Id=9606 Gene.Symbol=POLR2I DNA-directed RNA polymerase II subunit RPB9	192	15027	7
475	IPI00375127	Tax.Id=9606 Gene.Symbol=EIF4H Similar to mKIAA0038 protein	192	32698	10
476	IPI00010896	Tax.Id=9606 Gene.Symbol=CLIC1 Chloride intracellular channel protein 1	191	27248	17
477	IPI00479065	Tax.Id=9606 Gene.Symbol=GPSM1 Isoform 1 of G-protein-signaling modulator 1	191	72718	15
478	IPI00412987	Tax.Id=9606 Gene.Symbol=GMFB GMFB protein	190	18326	6
479	IPI00032827	Tax.Id=9606 Gene.Symbol=SF3B14 Pre-mRNA branch site protein p14	190	14690	4
480	IPI00396435	Tax.Id=9606 Gene.Symbol=DHX15 Putative pre-mRNA-splicing factor ATP-dependent RNA helicase DHX15	189	91673	11
481	IPI00420108	Tax.Id=9606 Gene.Symbol=DLST Dihydrolipoyllysine-residue succinyltransferase component of 2-oxoglutarate dehydrogenase complex, mitochondrial	189	48952	11
482	IPI00012750	Tax.Id=9606 Gene.Symbol=RPS25 40S ribosomal protein S25	189	13791	13
483	IPI00010157	Tax.Id=9606 Gene.Symbol=MAT2A S-adenosylmethionine synthetase isoform type-2	188	43975	9
484	IPI00182533	Tax.Id=9606 Gene.Symbol=RPL28 60S ribosomal protein L28	188	15795	24

485	IPI00017375	Tax.Id=9606 Gene.Symbol=SEC23A Protein transport protein Sec23A	186	87018	10
486	IPI00293655	Tax.Id=9606 Gene.Symbol=DDX1 ATP-dependent RNA helicase DDX1	186	83349	9
487	IPI00293276	Tax.Id=9606 Gene.Symbol=MIF;LOC284889 Macrophage migration inhibitory factor	186	12639	7
488	IPI00797279	Tax.Id=9606 Gene.Symbol=UHRF1 ubiquitin-like, containing PHD and RING finger domains, 1 isoform 2	185	92582	13
489	IPI00004795	Tax.Id=9606 Gene.Symbol=CLNS1A Methylosome subunit pI-Cln	185	26370	5
490	IPI00217232	Tax.Id=9606 Gene.Symbol=SUCLA2 Isoform 2 of Succinyl-CoA ligase [ADP-forming] subunit beta, mitochondrial	184	48351	11
491	IPI00009542	Tax.Id=9606 Gene.Symbol=MAGED2 Isoform 1 of Melanoma-associated antigen D2	184	65085	13
492	IPI00016669	Tax.Id=9606 Gene.Symbol=RHEB GTP-binding protein Rheb	184	20542	7
493	IPI00006362	Tax.Id=9606 Gene.Symbol=EDF1 Isoform 2 of Endothelial differentiation-related factor 1	184	15528	16
494	IPI00220578	Tax.Id=9606 Gene.Symbol=GNAI3 Guanine nucleotide-binding protein G(k) subunit alpha	181	41076	10
495	IPI00793523	Tax.Id=9606 Gene.Symbol=RPL23A Uncharacterized protein RPL23A	179	17939	10
496	IPI00075248	Tax.Id=9606 Gene.Symbol=CALM3;CALM2;CALM1 Calmodulin	179	16827	14
497	IPI00241841	Tax.Id=9606 Gene.Symbol=KRT79 Keratin, type II cytoskeletal 79	178	58059	22
498	IPI00843876	Tax.Id=9606 Gene.Symbol=TNPO1 Transportin-1	178	102727	8
499	IPI00796554	Tax.Id=9606 Gene.Symbol=- 18 kDa protein	178	18183	17
500	IPI00012837	Tax.Id=9606 Gene.Symbol=KIF5B Kinesin-1 heavy chain	178	110358	37
501	IPI00329633	Tax.Id=9606 Gene.Symbol=TARS Threonyl-tRNA synthetase, cytoplasmic	178	84294	22
502	IPI00215928	Tax.Id=9606 Gene.Symbol=CETN2 Centrin-2	177	19726	20
503	IPI00025721	Tax.Id=9606 Gene.Symbol=COPS3 COP9 signalosome complex subunit 3	176	48412	9
504	IPI00024171	Tax.Id=9606 Gene.Symbol=PHOX2A Paired mesoderm homeobox protein 2A	176	29977	6
505	IPI00239815	Tax.Id=9606 Gene.Symbol=CIRH1A Isoform 1 of Cirhin	175	77526	7
506	IPI00470741	Tax.Id=9606 Gene.Symbol=CEP135 centrosome protein 4	175	133864	29
507	IPI00219585	Tax.Id=9606 Gene.Symbol=PFKM Isoform 2 of 6-phosphofructokinase, muscle type	175	82579	15
508	IPI00011454	Tax.Id=9606 Gene.Symbol=GANAB Isoform 2 of Neutral alpha-glucosidase AB	174	109825	9
509	IPI00299977	Tax.Id=9606 Gene.Symbol=PHPT1 14 kDa phosphohistidine phosphatase	174	13995	6
510	IPI00008708	Tax.Id=9606 Gene.Symbol=RSL1D1 Ribosomal L1 domain-containing protein 1	174	55167	24

511	IPI00297261	Tax.Id=9606 Gene.Symbol=PTPN1 Tyrosine-protein phos- phatase non-receptor type 1	173	50505	15
512	IPI00385449	Tax.Id=9606 Gene.Symbol=PRKCA Protein kinase C alpha type	172	77855	19
513	IPI00008223	Tax.Id=9606 Gene.Symbol=RAD23B UV excision repair protein RAD23 homolog B	172	43202	5
514	IPI00022694	Tax.Id=9606 Gene.Symbol=PSMD4 Isoform Rpn10A of 26S pro- teasome non-ATPase regulatory subunit 4	172	40939	12
515	IPI00020127	Tax.Id=9606 Gene.Symbol=RPA1 Replication protein A 70 kDa DNA-binding subunit	171	68723	17
516	IPI00007089	Tax.Id=9606 Gene.Symbol=TINP1 Ribosome biogenesis protein NSA2 homolog	171	30218	16
517	IPI00019580	Tax.Id=9606 Gene.Symbol=PLG Plasminogen	170	93247	8
518	IPI00020436	Tax.Id=9606 Gene.Symbol=RAB11B Ras-related protein Rab- 11B	168	24588	9
519	IPI00181126	Tax.Id=9606 Gene.Symbol=LOC649445 similar to high mobility group nucleosomal binding domain 2 isoform 1	167	9459	19
520	IPI00798400	Tax.Id=9606 Gene.Symbol=EIF4G1 eukaryotic translation initi- ation factor 4 gamma, 1 isoform 3	167	159160	21
521	IPI00006052	Tax.Id=9606 Gene.Symbol=PFDN2 Prefoldin subunit 2	167	16695	10
522	IPI00795953	Tax.Id=9606 Gene.Symbol=STMN2 20 kDa protein	167	19676	15
523	IPI00643583	Tax.Id=9606 Gene.Symbol=DYNLRB1 Isoform 1 of Dynein light chain roadblock-type 1	167	10915	7
524	IPI00028004	Tax.Id=9606 Gene.Symbol=PSMB3 Proteasome subunit beta type-3	165	23219	17
525	IPI00002922	Tax.Id=9606 Gene.Symbol=TBL1XR1 F-box-like/WD repeat- containing protein TBL1XR1	165	56187	5
526	IPI00156374	Tax.Id=9606 Gene.Symbol=IPO4 Isoform 1 of Importin-4	164	120179	9
527	IPI00385042	Tax.Id=9606 Gene.Symbol=GTPBP4 Nucleolar GTP-binding protein 1	163	74317	25
528	IPI00029403	Tax.Id=9606 Gene.Symbol=SNX4 Sorting nexin-4	163	52161	12
529	IPI00017373	Tax.Id=9606 Gene.Symbol=RPA3 Replication protein A 14 kDa subunit	163	13674	9
530	IPI00043373	Tax.Id=9606 Gene.Symbol=CEP63 Isoform 1 of Centrosomal protein of 63 kDa	163	81863	18
531	IPI00065554	Tax.Id=9606 Gene.Symbol=EWSR1 cDNA FLJ32119 fis, clone PEBLM1000034, highly similar to RNA-BINDING PROTEIN EWS	162	62754	24
532	IPI00220637	Tax.Id=9606 Gene.Symbol=SARS Seryl-tRNA synthetase, cyto- plasmic	162	59253	14
533	IPI00872531	Tax.Id=9606 Gene.Symbol=- Uncharacterized protein ENSP00000383556	161	23439	12
534	IPI00658109	Tax.Id=9606 Gene.Symbol=CKMT1B;CKMT1A;LOC100133623 Creatine kinase, ubiquitous mitochondrial	161	47406	19
535	IPI00473014	Tax.Id=9606 Gene.Symbol=DSTN Destrin	160	18950	6
536	IPI00257910	Tax.Id=9606 Gene.Symbol=NHSL2 NHS-like protein 2	160	76653	13

537	IPI00291939	Tax_Id=9606 Gene_Symbol=SMC1A Structural maintenance of chromosomes protein 1A	159	143771	42
538	IPI00184330	Tax_Id=9606 Gene_Symbol=MCM2 DNA replication licensing factor MCM2	159	102516	22
539	IPI00007927	Tax_Id=9606 Gene_Symbol=SMC2 Isoform 1 of Structural maintenance of chromosomes protein 2	159	136266	45
540	IPI00005158	Tax_Id=9606 Gene_Symbol=LONP1 Lon protease homolog, mitochondrial	159	106936	22
541	IPI00554752	Tax_Id=9606 Gene_Symbol=PRKAR2B cAMP-dependent protein kinase type II-beta regulatory subunit	159	46716	7
542	IPI00012442	Tax_Id=9606 Gene_Symbol=G3BP1 Ras GTPase-activating protein-binding protein 1	158	52189	10
543	IPI00013466	Tax_Id=9606 Gene_Symbol=ASNA1 Arsenical pump-driving ATPase	158	39224	7
544	IPI00005700	Tax_Id=9606 Gene_Symbol=CEP57 Isoform 2 of Centrosomal protein of 57 kDa	158	54415	21
545	IPI00024523	Tax_Id=9606 Gene_Symbol=DNAJB6 Isoform A of DnaJ homolog subfamily B member 6	157	36122	10
546	IPI00005162	Tax_Id=9606 Gene_Symbol=ARPC3 Actin-related protein 2/3 complex subunit 3	157	20761	6
547	IPI00297982	Tax_Id=9606 Gene_Symbol=EIF2S3 Eukaryotic translation initiation factor 2 subunit 3	157	51647	11
548	IPI00021831	Tax_Id=9606 Gene_Symbol=PRKAR1A cAMP-dependent protein kinase type I-alpha regulatory subunit	157	43183	19
549	IPI00008240	Tax_Id=9606 Gene_Symbol=MARS Methionyl-tRNA synthetase, cytoplasmic	155	102249	12
550	IPI00027350	Tax_Id=9606 Gene_Symbol=PRDX2 Peroxiredoxin-2	155	22049	14
551	IPI00640833	Tax_Id=9606 Gene_Symbol=ANP32E Acidic	155	25224	9
552	IPI00395627	Tax_Id=9606 Gene_Symbol=CACYBP Isoform 1 of Calcyclin-binding protein	155	26308	11
553	IPI00289862	Tax_Id=9606 Gene_Symbol=SCRN1 Secernin-1	155	46980	11
554	IPI00026689	Tax_Id=9606 Gene_Symbol=CDC2 Putative uncharacterized protein DKFZp686L20222	155	34813	14
555	IPI00006980	Tax_Id=9606 Gene_Symbol=C14orf166 UPF0568 protein C14orf166	154	28165	9
556	IPI00394668	Tax_Id=9606 Gene_Symbol=ADAR Isoform 4 of Double-stranded RNA-specific adenosine deaminase	153	141990	25
557	IPI00163505	Tax_Id=9606 Gene_Symbol=RBM39 Isoform 1 of RNA-binding protein 39	152	59628	15
558	IPI00879750	Tax_Id=9606 Gene_Symbol=SNRPD3 19 kDa protein	152	19103	17
559	IPI00219006	Tax_Id=9606 Gene_Symbol=RPS19BP1 40S ribosomal protein S19-binding protein 1	152	15538	4
560	IPI00395998	Tax_Id=9606 Gene_Symbol=RPL32 60S ribosomal protein L32	151	15964	16
561	IPI00216256	Tax_Id=9606 Gene_Symbol=WDR1 Isoform 2 of WD repeat-containing protein 1	150	58593	7

562	IPI00186194	Tax.Id=9606 Gene.Symbol=CEP170 Isoform 1 of Centrosomal protein of 170 kDa	149	175586	30
563	IPI00009070	Tax.Id=9606 Gene.Symbol=HBS1L Isoform 1 of HBS1-like protein	149	75939	15
564	IPI00895801	Tax.Id=9606 Gene.Symbol=ACADM acyl-Coenzyme A dehydrogenase, C-4 to C-12 straight chain isoform b precursor	149	47503	10
565	IPI00219622	Tax.Id=9606 Gene.Symbol=PSMA2 Proteasome subunit alpha type-2	148	25996	6
566	IPI00297477	Tax.Id=9606 Gene.Symbol=SNRPA1 U2 small nuclear ribonucleoprotein A	147	28512	10
567	IPI00045396	Tax.Id=9606 Gene.Symbol=CALU Isoform 2 of Calumenin	147	37225	7
568	IPI00006608	Tax.Id=9606 Gene.Symbol=APP Isoform APP770 of Amyloid beta A4 protein (Fragment)	147	87914	6
569	IPI00026215	Tax.Id=9606 Gene.Symbol=FEN1 Flap endonuclease 1	147	42908	8
570	IPI00062037	Tax.Id=9606 Gene.Symbol=DYNLL2 Dynein light chain 2, cytoplasmic	147	10457	4
571	IPI00007402	Tax.Id=9606 Gene.Symbol=IPO7 Importin-7	147	120751	10
572	IPI00008575	Tax.Id=9606 Gene.Symbol=KHDRBS1 Isoform 1 of KH domain-containing, RNA-binding, signal transduction-associated protein 1	146	48311	11
573	IPI00156689	Tax.Id=9606 Gene.Symbol=VAT1 Synaptic vesicle membrane protein VAT-1 homolog	146	42122	8
574	IPI00790569	Tax.Id=9606 Gene.Symbol=RPL15 22 kDa protein	146	22021	9
575	IPI00795288	Tax.Id=9606 Gene.Symbol=PEBP1 22 kDa protein	145	21959	8
576	IPI00012645	Tax.Id=9606 Gene.Symbol=SPTBN2 Isoform 1 of Spectrin beta chain, brain 2	145	272496	33
577	IPI00019380	Tax.Id=9606 Gene.Symbol=NCBP1 Nuclear cap-binding protein subunit 1	144	92864	11
578	IPI00289334	Tax.Id=9606 Gene.Symbol=FLNB Isoform 1 of Filamin-B	143	280188	33
579	IPI00220271	Tax.Id=9606 Gene.Symbol=AKR1A1 Alcohol dehydrogenase [NADP+]	143	36892	6
580	IPI00004860	Tax.Id=9606 Gene.Symbol=RARS Isoform Complexed of Arginyl-tRNA synthetase, cytoplasmic	142	76129	27
581	IPI00640981	Tax.Id=9606 Gene.Symbol=UBR4 Isoform 4 of E3 ubiquitin-protein ligase UBR4	142	580483	43
582	IPI00014253	Tax.Id=9606 Gene.Symbol=RRS1 Ribosome biogenesis regulatory protein homolog	142	41225	12
583	IPI00306369	Tax.Id=9606 Gene.Symbol=NSUN2 tRNA (cytosine-5)-methyltransferase NSUN2	141	87214	16
584	IPI00220528	Tax.Id=9606 Gene.Symbol=SNRPF Small nuclear ribonucleoprotein F	141	9776	6
585	IPI00299033	Tax.Id=9606 Gene.Symbol=KPNA3 Importin subunit alpha-3	140	58288	8
586	IPI00646917	Tax.Id=9606 Gene.Symbol=NUDT21 Cleavage and polyadenylation specificity factor subunit 5	140	26268	8
587	IPI00782992	Tax.Id=9606 Gene.Symbol=SRRM2 Isoform 1 of Serine/arginine repetitive matrix protein 2	140	300179	40

588	IPI00219678	Tax.Id=9606 Gene.Symbol=EIF2S1 Eukaryotic translation initiation factor 2 subunit 1	139	36374	12
589	IPI00328715	Tax.Id=9606 Gene.Symbol=MTDH Protein LYRIC	139	63856	9
590	IPI00329389	Tax.Id=9606 Gene.Symbol=RPL6 60S ribosomal protein L6	139	32765	11
591	IPI00011913	Tax.Id=9606 Gene.Symbol=HNRNPA0 Heterogeneous nuclear ribonucleoprotein A0	139	30993	7
592	IPI00329629	Tax.Id=9606 Gene.Symbol=DNAJC7 DnaJ homolog subfamily C member 7	138	57203	8
593	IPI00027875	Tax.Id=9606 Gene.Symbol=SYT11 Synaptotagmin-11	138	48675	12
594	IPI00554649	Tax.Id=9606 Gene.Symbol=ATG4B Isoform 1 of Cysteine protease ATG4B	138	45022	5
595	IPI00412545	Tax.Id=9606 Gene.Symbol=NDUFA5 Putative uncharacterized protein DKFZp781K1356	138	13611	6
596	IPI00007146	Tax.Id=9606 Gene.Symbol=GIN52 DNA replication complex GINS protein PSF2	138	21471	5
597	IPI00815672	Tax.Id=9606 Gene.Symbol=KIF1A Isoform 2 of Kinesin-like protein KIF1A	138	204542	22
598	IPI00006932	Tax.Id=9606 Gene.Symbol=LUC7L2 Isoform 1 of Putative RNA-binding protein Luc7-like 2	137	46942	10
599	IPI00012795	Tax.Id=9606 Gene.Symbol=EIF3I Eukaryotic translation initiation factor 3 subunit I	136	36878	9
600	IPI00031820	Tax.Id=9606 Gene.Symbol=FARSA Phenylalanyl-tRNA synthetase alpha chain	136	57585	10
601	IPI00019918	Tax.Id=9606 Gene.Symbol=DDX19A ATP-dependent RNA helicase DDX19A	136	54397	14
602	IPI00747849	Tax.Id=9606 Gene.Symbol=ATP1B1 Isoform 1 of Sodium/potassium-transporting ATPase subunit beta-1	136	35438	7
603	IPI00020194	Tax.Id=9606 Gene.Symbol=TAF15 Isoform Short of TATA-binding protein-associated factor 2N	136	61749	12
604	IPI00031768	Tax.Id=9606 Gene.Symbol=HOOK3 Protein Hook homolog 3	136	83474	10
605	IPI00013949	Tax.Id=9606 Gene.Symbol=SGTA Small glutamine-rich tetratricopeptide repeat-containing protein alpha	135	34270	20
606	IPI00007611	Tax.Id=9606 Gene.Symbol=ATP5O ATP synthase subunit O, mitochondrial	135	23377	8
607	IPI00179330	Tax.Id=9606 Gene.Symbol=UBC;UBB;RPS27A ubiquitin and ribosomal protein S27a precursor	135	18296	11
608	IPI00293464	Tax.Id=9606 Gene.Symbol=DDB1 DNA damage-binding protein 1	135	128142	13
609	IPI00788247	Tax.Id=9606 Gene.Symbol=KIF26A Kinesin-like protein KIF26A	135	197091	13
610	IPI00301364	Tax.Id=9606 Gene.Symbol=SKP1 Isoform 1 of S-phase kinase-associated protein 1	134	18817	5
611	IPI00017339	Tax.Id=9606 Gene.Symbol=SF3B4 Splicing factor 3B subunit 4	134	44414	5
612	IPI00010586	Tax.Id=9606 Gene.Symbol=TMF1 TATA element modulatory factor	134	123666	34

613	IPI00033143	Tax.Id=9606 Gene.Symbol=EIF3K Eukaryotic translation initiation factor 3 subunit K	134	25329	13
614	IPI00413214	Tax.Id=9606 Gene.Symbol=KPNA5 karyopherin alpha 5	134	61369	9
615	IPI00106495	Tax.Id=9606 Gene.Symbol=NCAPG Condensin complex subunit 3	132	115345	10
616	IPI00219525	Tax.Id=9606 Gene.Symbol=PGD 6-phosphogluconate dehydrogenase, decarboxylating	132	53619	5
617	IPI00789041	Tax.Id=9606 Gene.Symbol=PNN Isoform 1 of Pinin	131	81679	28
618	IPI00847956	Tax.Id=9606 Gene.Symbol=- Similar to 40S ribosomal protein S27	131	8391	16
619	IPI00856036	Tax.Id=9606 Gene.Symbol=GIGYF2 GRB10 interacting GYF protein 2 isoform c	131	149737	14
620	IPI00185374	Tax.Id=9606 Gene.Symbol=PSMD12 26S proteasome non-ATPase regulatory subunit 12	130	53270	10
621	IPI00414860	Tax.Id=9606 Gene.Symbol=RPL37A 60S ribosomal protein L37a	130	10497	4
622	IPI00065671	Tax.Id=9606 Gene.Symbol=UCK2 Isoform 1 of Uridine-cytidine kinase 2	130	29452	5
623	IPI00012966	Tax.Id=9606 Gene.Symbol=TCF12 Transcription factor 12	129	73091	14
624	IPI00294610	Tax.Id=9606 Gene.Symbol=DNAJA3 Isoform 1 of DnaJ homolog subfamily A member 3, mitochondrial	129	53132	17
625	IPI00150057	Tax.Id=9606 Gene.Symbol=SMARCC2 Isoform 2 of SWI/SNF complex subunit SMARCC2	129	125163	19
626	IPI00029629	Tax.Id=9606 Gene.Symbol=TRIM25 Tripartite motif-containing protein 25	128	72597	12
627	IPI00455620	Tax.Id=9606 Gene.Symbol=RUFY3 RUN and FYVE domain containing 3 isoform 1	128	71306	16
628	IPI00185146	Tax.Id=9606 Gene.Symbol=IPO9 Importin-9	128	116858	11
629	IPI00413641	Tax.Id=9606 Gene.Symbol=AKR1B1 Aldose reductase	128	36230	12
630	IPI00003944	Tax.Id=9606 Gene.Symbol=DBT Lipoamide acyltransferase component of branched-chain alpha-keto acid dehydrogenase complex, mitochondrial	127	53852	9
631	IPI00028091	Tax.Id=9606 Gene.Symbol=ACTR3 Actin-related protein 3	127	47797	3
632	IPI00099996	Tax.Id=9606 Gene.Symbol=RG9MTD1 RNA (guanine-9-) methyltransferase domain containing 1	127	47602	19
633	IPI00643041	Tax.Id=9606 Gene.Symbol=RAN GTP-binding nuclear protein Ran	127	24579	12
634	IPI00409659	Tax.Id=9606 Gene.Symbol=UBQLN2 Ubiquilin-2	126	65655	9
635	IPI00219513	Tax.Id=9606 Gene.Symbol=UCHL5 Isoform 3 of Ubiquitin carboxyl-terminal hydrolase isozyme L5	126	37739	26
636	IPI00219682	Tax.Id=9606 Gene.Symbol=STOM Erythrocyte band 7 integral membrane protein	126	31882	9
637	IPI00867509	Tax.Id=9606 Gene.Symbol=CORO1C Coronin-1C.i3 protein	126	59708	15
638	IPI00219005	Tax.Id=9606 Gene.Symbol=FKBP4 FK506-binding protein 4	126	52057	13
639	IPI00219483	Tax.Id=9606 Gene.Symbol=SNRP70 Isoform 2 of U1 small nuclear ribonucleoprotein 70 kDa	125	50644	4
640	IPI00216402	Tax.Id=9606 Gene.Symbol=HIST3H3 Histone H3.1t	124	15613	25

641	IPI00186712	Tax.Id=9606 Gene.Symbol=RPS26 Ribosomal protein 26 (RPS26) pseudogene	124	13278	8
642	IPI00412579	Tax.Id=9606 Gene.Symbol=RPL10A 60S ribosomal protein L10a	124	24987	12
643	IPI00292753	Tax.Id=9606 Gene.Symbol=GAPVD1 Isoform 6 of GTPase-activating protein and VPS9 domain-containing protein 1	124	167547	14
644	IPI00023724	Tax.Id=9606 Gene.Symbol=MAB21L1 Protein mab-21-like 1	124	41671	20
645	IPI00013296	Tax.Id=9606 Gene.Symbol=RPS18;LOC100130553 40S ribosomal protein S18	123	17708	9
646	IPI00299155	Tax.Id=9606 Gene.Symbol=PSMA4 Proteasome subunit alpha type-4	123	29750	12
647	IPI00103595	Tax.Id=9606 Gene.Symbol=CEP350 Centrosome-associated protein 350	123	352312	63
648	IPI00377233	Tax.Id=9606 Gene.Symbol=MRPL11 mitochondrial ribosomal protein L11 isoform b	122	18251	7
649	IPI00217957	Tax.Id=9606 Gene.Symbol=AHCTF1 Isoform 2 of AT-hook-containing transcription factor 1	122	258169	30
650	IPI00295386	Tax.Id=9606 Gene.Symbol=CBR1 Carbonyl reductase [NADPH] 1	122	30641	14
651	IPI00298971	Tax.Id=9606 Gene.Symbol=VTN Vitronectin	121	55069	7
652	IPI00057097	Tax.Id=9606 Gene.Symbol=DNTTIP1 Deoxynucleotidyltransferase terminal-interacting protein 1	121	37275	8
653	IPI00896523	Tax.Id=9606 Gene.Symbol=SET SET translocation	120	31310	8
654	IPI00289601	Tax.Id=9606 Gene.Symbol=HDAC2 histone deacetylase 2	120	66294	30
655	IPI00011268	Tax.Id=9606 Gene.Symbol=RALY Putative uncharacterized protein (Fragment)	119	32588	14
656	IPI00165261	Tax.Id=9606 Gene.Symbol=SCFD1 Sec1 family domain-containing protein 1	119	72676	5
657	IPI00002938	Tax.Id=9606 Gene.Symbol=ABT1 Activator of basal transcription 1	119	31117	7
658	IPI00019450	Tax.Id=9606 Gene.Symbol=TROVE2 Isoform Long of 60 kDa SS-A/Ro ribonucleoprotein	119	61372	14
659	IPI00020196	Tax.Id=9606 Gene.Symbol=ARMC6 Armadillo repeat-containing protein 6	119	55191	15
660	IPI00305887	Tax.Id=9606 Gene.Symbol=NUF2 Kinetochores protein Nuf2	119	54611	19
661	IPI00300341	Tax.Id=9606 Gene.Symbol=TCEB1 Transcription elongation factor B polypeptide 1	118	12636	2
662	IPI00061112	Tax.Id=9606 Gene.Symbol=STARD4 StAR-related lipid transfer protein 4	117	23844	3
663	IPI00878369	Tax.Id=9606 Gene.Symbol=- 12 kDa protein	116	12112	9
664	IPI00012382	Tax.Id=9606 Gene.Symbol=SNRPA U1 small nuclear ribonucleoprotein A	116	31259	5
665	IPI00186721	Tax.Id=9606 Gene.Symbol=GOPC Isoform 1 of Golgi-associated PDZ and coiled-coil motif-containing protein	116	50888	11
666	IPI00022597	Tax.Id=9606 Gene.Symbol=UBE2M NEDD8-conjugating enzyme Ubc12	115	21172	8

667	IPI00031570	Tax.Id=9606 Gene.Symbol=C1orf57 Probable UPF0334 kinase-like protein C1orf57	115	20928	7
668	IPI00647677	Tax.Id=9606 Gene.Symbol=CAPZB Capping protein (Actin filament) muscle Z-line, beta	114	23283	7
669	IPI00304232	Tax.Id=9606 Gene.Symbol=WDR12 WD repeat-containing protein 12	114	48191	6
670	IPI00007834	Tax.Id=9606 Gene.Symbol=ANK2 Isoform 1 of Ankyrin-2	114	432588	26
671	IPI00383500	Tax.Id=9606 Gene.Symbol=FERMT2 Isoform 2 of Fermitin family homolog 2	114	79252	12
672	IPI00181352	Tax.Id=9606 Gene.Symbol=DNM2 dynamin 2 isoform 4	114	97778	13
673	IPI00298994	Tax.Id=9606 Gene.Symbol=TLN1 Talin-1	114	271766	34
674	IPI00293613	Tax.Id=9606 Gene.Symbol=TBK1 Serine/threonine-protein kinase TBK1	114	84216	6
675	IPI00744359	Tax.Id=9606 Gene.Symbol=UBQLN4 cDNA FLJ13292 fis, clone OVARC1001180, weakly similar to UBIQUITIN-LIKE PROTEIN DSK2	114	34222	7
676	IPI00010105	Tax.Id=9606 Gene.Symbol=EIF6 Eukaryotic translation initiation factor 6	114	27095	11
677	IPI00012462	Tax.Id=9606 Gene.Symbol=EIF2A Eukaryotic translation initiation factor 2A	114	68436	10
678	IPI00013002	Tax.Id=9606 Gene.Symbol=UBE2C Ubiquitin-conjugating enzyme E2 C	114	19754	8
679	IPI00790142	Tax.Id=9606 Gene.Symbol=SUMO2 10 kDa protein	114	10508	5
680	IPI00216057	Tax.Id=9606 Gene.Symbol=SORD Sorbitol dehydrogenase	113	38899	6
681	IPI00298520	Tax.Id=9606 Gene.Symbol=ARCN1 Putative uncharacterized protein DKFZp686M09245	112	62129	6
682	IPI00328354	Tax.Id=9606 Gene.Symbol=MAGED1 Isoform 1 of Melanoma-associated antigen D1	112	86221	6
683	IPI00014437	Tax.Id=9606 Gene.Symbol=SSNA1 Sjogren syndrome nuclear autoantigen 1	112	13759	8
684	IPI00004839	Tax.Id=9606 Gene.Symbol=CRKL Crk-like protein	112	33870	7
685	IPI00855912	Tax.Id=9606 Gene.Symbol=PUF60 Isoform 6 of Poly(U)-binding-splicing factor PUF60	112	55536	16
686	IPI00158020	Tax.Id=9606 Gene.Symbol=SFRS14 Isoform 1 of Putative splicing factor, arginine/serine-rich 14	111	121074	18
687	IPI00183657	Tax.Id=9606 Gene.Symbol=ZNF706 Zinc finger protein 706	110	8606	12
688	IPI00019540	Tax.Id=9606 Gene.Symbol=SAPS3 Isoform 4 of SAPS domain family member 3	109	89809	6
689	IPI00478269	Tax.Id=9606 Gene.Symbol=RGS5 Regulator of G-protein signaling 5	109	23662	12
690	IPI00847501	Tax.Id=9606 Gene.Symbol=ACACA Isoform 2 of Acetyl-CoA carboxylase 1	109	261231	24
691	IPI00293143	Tax.Id=9606 Gene.Symbol=PHOX2B Paired mesoderm homeobox protein 2B	109	31886	7
692	IPI00220219	Tax.Id=9606 Gene.Symbol=COPB2 Coatamer subunit beta	108	103278	15

693	IPI00220624	Tax.Id=9606 Gene.Symbol=AKAP9 A-kinase anchor protein 9 (Protein kinase A-anchoring protein 9) (PRKA9) (A-kinase anchor protein 450 kDa) (AKAP 450) (A-kinase anchor protein 350 kDa) (AKAP 350) (hgAKAP 350) (AKAP 120-like protein) (Protein hyperion)	108	454925	91
694	IPI00784739	Tax.Id=9606 Gene.Symbol=C14orf43 Uncharacterized protein C14orf43	108	115431	20
695	IPI00014230	Tax.Id=9606 Gene.Symbol=C1QBP Complement component 1 Q subcomponent-binding protein, mitochondrial	108	31742	7
696	IPI00873406	Tax.Id=9606 Gene.Symbol=KIAA1967 Isoform 2 of Protein KIAA1967	107	103706	20
697	IPI00604707	Tax.Id=9606 Gene.Symbol=DLAT dihydrolipoamide S-acetyltransferase	107	69466	8
698	IPI00220362	Tax.Id=9606 Gene.Symbol=HSPE1 10 kDa heat shock protein, mitochondrial	107	10925	3
699	IPI00300074	Tax.Id=9606 Gene.Symbol=FARSB Phenylalanyl-tRNA synthetase beta chain	107	66715	16
700	IPI00643664	Tax.Id=9606 Gene.Symbol=STAU1 staufen isoform c	106	55828	11
701	IPI00217442	Tax.Id=9606 Gene.Symbol=ANKHD1-EIF4EBP3;EIF4EBP3 ANKHD1-EIF4EBP3 protein	106	279056	20
702	IPI00026833	Tax.Id=9606 Gene.Symbol=ADSS Adenylosuccinate synthetase isozyme 2	106	50465	6
703	IPI00024145	Tax.Id=9606 Gene.Symbol=VDAC2 Voltage-dependent anion-selective channel protein 2	106	38639	6
704	IPI00011694	Tax.Id=9606 Gene.Symbol=PRSS1 Trypsin-1	105	27111	10
705	IPI00009342	Tax.Id=9606 Gene.Symbol=IQGAP1 Ras GTPase-activating-like protein IQGAP1	105	189761	26
706	IPI00328319	Tax.Id=9606 Gene.Symbol=RBBP4 Histone-binding protein RBBP4	105	47911	7
707	IPI00479432	Tax.Id=9606 Gene.Symbol=KIAA0859 Isoform 3 of Putative methyltransferase KIAA0859	105	69387	7
708	IPI00033494	Tax.Id=9606 Gene.Symbol=MRLC2 Myosin regulatory light chain	104	19824	5
709	IPI00008437	Tax.Id=9606 Gene.Symbol=C15orf15 Probable ribosome biogenesis protein RLP24	104	19893	6
710	IPI00005511	Tax.Id=9606 Gene.Symbol=PHF5A PHD finger-like domain-containing protein 5A	104	13138	2
711	IPI00217862	Tax.Id=9606 Gene.Symbol=RRP9 U3 small nucleolar RNA-interacting protein 2	103	52436	7
712	IPI00855767	Tax.Id=9606 Gene.Symbol=RAP1GDS1 RAP1, GTP-GDP dissociation stimulator 1 isoform 1	103	67144	17
713	IPI00604664	Tax.Id=9606 Gene.Symbol=NDUFS1 NADH-ubiquinone oxidoreductase 75 kDa subunit, mitochondrial	103	80443	8
714	IPI00216378	Tax.Id=9606 Gene.Symbol=CAMK2G calcium/calmodulin-dependent protein kinase II gamma isoform 1	103	62867	19
715	IPI00430622	Tax.Id=9606 Gene.Symbol=SPG20 Spartin	102	73358	12

716	IPI00003309	Tax.Id=9606 Gene.Symbol=POLR2H DNA-directed RNA polymerases I, II, and III subunit RPABC3	102	17189	4
717	IPI00009315	Tax.Id=9606 Gene.Symbol=ACBD3 Golgi resident protein GCP60	102	60841	5
718	IPI00216298	Tax.Id=9606 Gene.Symbol=TXN Thioredoxin	101	12015	5
719	IPI00031836	Tax.Id=9606 Gene.Symbol=DRG1 Developmentally-regulated GTP-binding protein 1	101	40802	4
720	IPI00290928	Tax.Id=9606 Gene.Symbol=GNA13 Guanine nucleotide-binding protein alpha-13 subunit	101	44364	13
721	IPI00337736	Tax.Id=9606 Gene.Symbol=KTN1 Isoform 2 of Kinectin	101	149804	40
722	IPI00028006	Tax.Id=9606 Gene.Symbol=PSMB2 Proteasome subunit beta type-2	100	22993	11
723	IPI00289396	Tax.Id=9606 Gene.Symbol=PHYHIPL Isoform 1 of Phytanoyl-CoA hydroxylase-interacting protein-like	100	43043	8
724	IPI00027270	Tax.Id=9606 Gene.Symbol=RPL26 60S ribosomal protein L26	100	17248	10
725	IPI00021035	Tax.Id=9606 Gene.Symbol=RBBP5 Retinoblastoma-binding protein 5	99	59729	8
726	IPI00414717	Tax.Id=9606 Gene.Symbol=GLG1 golgi apparatus protein 1	99	141009	16
727	IPI00397904	Tax.Id=9606 Gene.Symbol=NUP93 Nuclear pore complex protein Nup93	98	93943	17
728	IPI00216237	Tax.Id=9606 Gene.Symbol=RPL36 60S ribosomal protein L36	98	12303	11
729	IPI00004968	Tax.Id=9606 Gene.Symbol=PRPF19 Pre-mRNA-processing factor 19	98	55603	8
730	IPI00018288	Tax.Id=9606 Gene.Symbol=POLR2C DNA-directed RNA polymerase II subunit RPB3	97	31764	4
731	IPI00073713	Tax.Id=9606 Gene.Symbol=MSI2 Isoform 1 of RNA-binding protein Musashi homolog 2	97	35345	10
732	IPI00216046	Tax.Id=9606 Gene.Symbol=SMARCA1 Isoform 1 of Probable global transcription activator SNF2L1	97	123211	23
733	IPI00029737	Tax.Id=9606 Gene.Symbol=ACSL4 Isoform Long of Long-chain-fatty-acid-CoA ligase 4	96	80220	18
734	IPI00895958	Tax.Id=9606 Gene.Symbol=- Tyrosine-protein kinase receptor	96	147055	25
735	IPI00550900	Tax.Id=9606 Gene.Symbol=TPT1 Translationally-controlled tumor protein	96	19697	4
736	IPI00030781	Tax.Id=9606 Gene.Symbol=STAT1 Isoform Alpha of Signal transducer and activator of transcription 1-alpha/beta	96	87850	11
737	IPI00019848	Tax.Id=9606 Gene.Symbol=HCFC1 Isoform 1 of Host cell factor	96	210598	28
738	IPI00306516	Tax.Id=9606 Gene.Symbol=TIMM44 Mitochondrial import inner membrane translocase subunit TIM44	96	51666	12
739	IPI00220648	Tax.Id=9606 Gene.Symbol=PMVK Phosphomevalonate kinase	95	22152	4
740	IPI00472879	Tax.Id=9606 Gene.Symbol=- Novel protein similar to Pre-B cell enhancing factor	95	53645	8
741	IPI00004962	Tax.Id=9606 Gene.Symbol=GOLIM4 Golgi integral membrane protein 4	95	81888	8
742	IPI00418290	Tax.Id=9606 Gene.Symbol=MRPL14 39S ribosomal protein L14, mitochondrial	95	16165	5

743	IPI00029091	Tax.Id=9606 Gene.Symbol=- Putative nucleoside diphosphate kinase	95	15690	8
744	IPI00887787	Tax.Id=9606 Gene.Symbol=LOC100134376 similar to novel similar to human Nance-Horan syndrome protein	94	15970	3
745	IPI00003519	Tax.Id=9606 Gene.Symbol=EFTUD2 116 kDa U5 small nuclear ribonucleoprotein component	94	110336	10
746	IPI00657643	Tax.Id=9606 Gene.Symbol=TRIM27 Protein	94	27884	14
747	IPI00219913	Tax.Id=9606 Gene.Symbol=USP14 Ubiquitin carboxyl-terminal hydrolase 14	94	56489	10
748	IPI00024915	Tax.Id=9606 Gene.Symbol=PRDX5 Isoform Mitochondrial of Peroxiredoxin-5, mitochondrial	93	22298	7
749	IPI00217272	Tax.Id=9606 Gene.Symbol=AACS Isoform 1 of Acetoacetyl-CoA synthetase	93	75666	8
750	IPI00101664	Tax.Id=9606 Gene.Symbol=NARS2 Probable asparaginyl-tRNA synthetase, mitochondrial	93	54556	3
751	IPI00854786	Tax.Id=9606 Gene.Symbol=BAT2 Uncharacterized protein BAT2	93	228687	18
752	IPI00000811	Tax.Id=9606 Gene.Symbol=PSMB6 Proteasome subunit beta type-6	92	25570	3
753	IPI00011421	Tax.Id=9606 Gene.Symbol=MLLT11 Protein AF1q	92	10055	2
754	IPI00007755	Tax.Id=9606 Gene.Symbol=RAB21 Ras-related protein Rab-21	92	24731	8
755	IPI00298961	Tax.Id=9606 Gene.Symbol=XPO1 Exportin-1	92	124447	16
756	IPI00872985	Tax.Id=9606 Gene.Symbol=NOLA1 26 kDa protein	92	25784	5
757	IPI00000015	Tax.Id=9606 Gene.Symbol=SFRS4 Splicing factor, arginine/serine-rich 4	92	56759	14
758	IPI00798011	Tax.Id=9606 Gene.Symbol=SUMO3 Uncharacterized protein SUMO3	91	17117	4
759	IPI00306436	Tax.Id=9606 Gene.Symbol=STAT3 Isoform Del-701 of Signal transducer and activator of transcription 3	91	88723	17
760	IPI00025815	Tax.Id=9606 Gene.Symbol=TARDBP TDP43	91	45305	11
761	IPI00001738	Tax.Id=9606 Gene.Symbol=NUP88 Nuclear pore complex protein Nup88	91	84629	4
762	IPI00025366	Tax.Id=9606 Gene.Symbol=CS Citrate synthase, mitochondrial	91	51908	8
763	IPI00642976	Tax.Id=9606 Gene.Symbol=CPNE1 Copine I	91	23005	10
764	IPI00022891	Tax.Id=9606 Gene.Symbol=SLC25A4 ADP/ATP translocase 1	91	33271	8
765	IPI00292221	Tax.Id=9606 Gene.Symbol=BXDC5 Ribosome production factor 1	90	40200	8
766	IPI00291922	Tax.Id=9606 Gene.Symbol=PSMA5 Proteasome subunit alpha type-5	90	26565	3
767	IPI00037283	Tax.Id=9606 Gene.Symbol=DNM1L Isoform 5 of Dynamin-1-like protein	90	79573	7
768	IPI00878557	Tax.Id=9606 Gene.Symbol=- 62 kDa protein	90	62632	6
769	IPI00005969	Tax.Id=9606 Gene.Symbol=CAPZA1 F-actin-capping protein subunit alpha-1	89	33073	6
770	IPI00440688	Tax.Id=9606 Gene.Symbol=POLDIP3 Isoform 1 of Polymerase delta-interacting protein 3	88	46289	18

771	IPI00294158	Tax.Id=9606 Gene.Symbol=BLVRA Biliverdin reductase A	88	33692	4
772	IPI00029534	Tax.Id=9606 Gene.Symbol=PPAT Amidophosphoribosyltransferase	88	58161	7
773	IPI00000733	Tax.Id=9606 Gene.Symbol=UTP18 U3 small nucleolar RNA-associated protein 18 homolog	88	64480	11
774	IPI00003505	Tax.Id=9606 Gene.Symbol=TRIP13 Isoform 1 of Thyroid receptor-interacting protein 13	87	48863	6
775	IPI00022215	Tax.Id=9606 Gene.Symbol=ADNP Activity-dependent neuroprotector homeobox protein	86	124854	21
776	IPI00024919	Tax.Id=9606 Gene.Symbol=PRDX3 Thioredoxin-dependent peroxide reductase, mitochondrial	86	28017	2
777	IPI00021448	Tax.Id=9606 Gene.Symbol=PIK3R1 Isoform 1 of Phosphatidylinositol 3-kinase regulatory subunit alpha	86	83889	14
778	IPI00029468	Tax.Id=9606 Gene.Symbol=ACTR1A Alpha-centractin	86	42701	9
779	IPI00305827	Tax.Id=9606 Gene.Symbol=FSD1 Fibronectin type III and SPRY domain-containing protein 1	86	56240	8
780	IPI00045550	Tax.Id=9606 Gene.Symbol=PPP1R9B protein phosphatase 1, regulatory subunit 9B	85	89451	10
781	IPI00022256	Tax.Id=9606 Gene.Symbol=AP2M1 Isoform 1 of AP-2 complex subunit mu-1	85	49965	11
782	IPI00178150	Tax.Id=9606 Gene.Symbol=KIF4A Isoform 1 of Chromosome-associated kinesin KIF4A	85	141390	32
783	IPI00218465	Tax.Id=9606 Gene.Symbol=PLAA Phospholipase A-2-activating protein	85	88641	5
784	IPI00014812	Tax.Id=9606 Gene.Symbol=C1orf51;MRPS21 28S ribosomal protein S21, mitochondrial	85	10906	4
785	IPI00306642	Tax.Id=9606 Gene.Symbol=WDSOF1 Uncharacterized protein WDSOF1	85	68363	7
786	IPI00171199	Tax.Id=9606 Gene.Symbol=PSMA3 Isoform 2 of Proteasome subunit alpha type-3	84	27858	4
787	IPI00332511	Tax.Id=9606 Gene.Symbol=PPP2R2A Serine/threonine-protein phosphatase 2A 55 kDa regulatory subunit B alpha isoform	84	52173	21
788	IPI00453476	Tax.Id=9606 Gene.Symbol=- Uncharacterized protein ENSP00000348237	84	29003	10
789	IPI00005490	Tax.Id=9606 Gene.Symbol=GOLPH3 Golgi phosphoprotein 3	83	34075	4
790	IPI00291783	Tax.Id=9606 Gene.Symbol=GEMIN5 Gem-associated protein 5	83	170793	11
791	IPI00022372	Tax.Id=9606 Gene.Symbol=MYCN N-myc proto-oncogene protein	83	49930	3
792	IPI00026089	Tax.Id=9606 Gene.Symbol=SF3B1 Splicing factor 3B subunit 1	83	146464	15
793	IPI00009033	Tax.Id=9606 Gene.Symbol=PCDH8 Protocadherin beta-8	83	88155	10
794	IPI00796698	Tax.Id=9606 Gene.Symbol=SMARCE1 Protein	83	20819	11
795	IPI00445310	Tax.Id=9606 Gene.Symbol=CEP164 cDNA FLJ44007 fis, clone TESTI4023762	83	94931	17
796	IPI00030706	Tax.Id=9606 Gene.Symbol=AHSA1 Activator of 90 kDa heat shock protein ATPase homolog 1	83	38421	4
797	IPI00465121	Tax.Id=9606 Gene.Symbol=GNAI2 Galphai2 protein	83	42035	7

798	IPI00556021	Tax.Id=9606 Gene.Symbol=POLD1 DNA polymerase	83	113097	12
799	IPI00022095	Tax.Id=9606 Gene.Symbol=PEG10 Isoform RF1/RF2 of Retrotransposon-derived protein PEG10	82	80692	9
800	IPI00029159	Tax.Id=9606 Gene.Symbol=MRE11A Isoform 1 of Double-strand break repair protein MRE11A	82	80885	4
801	IPI00299554	Tax.Id=9606 Gene.Symbol=KIF14 Kinesin-like protein KIF14	82	187743	45
802	IPI00003923	Tax.Id=9606 Gene.Symbol=UMPS Isoform 1 of Uridine 5 - monophosphate synthase	82	52645	12
803	IPI00644361	Tax.Id=9606 Gene.Symbol=NAT1 Arylamine N-acetyltransferase 1	82	34162	3
804	IPI00219518	Tax.Id=9606 Gene.Symbol=ARL1 ADP-ribosylation factor-like protein 1	81	20518	3
805	IPI00386418	Tax.Id=9606 Gene.Symbol=MYEF2 Isoform 2 of Myelin expression factor 2	81	62176	9
806	IPI00900256	Tax.Id=9606 Gene.Symbol=C2CD3 Isoform 5 of C2 domain-containing protein 3	81	262581	33
807	IPI00012345	Tax.Id=9606 Gene.Symbol=SFRS6 Isoform SRP55-1 of Splicing factor, arginine/serine-rich 6	81	39677	18
808	IPI00465128	Tax.Id=9606 Gene.Symbol=BAT3 Isoform 1 of Large proline-rich protein BAT3	80	119790	14
809	IPI00013396	Tax.Id=9606 Gene.Symbol=SNRPC U1 small nuclear ribonucleoprotein C	80	17552	2
810	IPI00430812	Tax.Id=9606 Gene.Symbol=CNBP Isoform 1 of Cellular nucleic acid-binding protein	80	20704	3
811	IPI00020944	Tax.Id=9606 Gene.Symbol=FDFT1 Squalene synthetase	80	48597	13
812	IPI00028570	Tax.Id=9606 Gene.Symbol=GSK3B Isoform 1 of Glycogen synthase kinase-3 beta	79	47228	7
813	IPI00792933	Tax.Id=9606 Gene.Symbol=ZNF462 zinc finger protein 462	79	289467	23
814	IPI00023555	Tax.Id=9606 Gene.Symbol=OSBPL3 Isoform 1a of Oxysterol-binding protein-related protein 3	79	102130	14
815	IPI00305166	Tax.Id=9606 Gene.Symbol=SDHA Succinate dehydrogenase [ubiquinone] flavoprotein subunit, mitochondrial	79	73672	11
816	IPI00016346	Tax.Id=9606 Gene.Symbol=PROSC Proline synthetase co-transcribed bacterial homolog protein	79	30610	7
817	IPI00743284	Tax.Id=9606 Gene.Symbol=MTR Methionine synthase	79	141749	36
818	IPI00003406	Tax.Id=9606 Gene.Symbol=DBN1 Isoform 1 of Drebrin	79	71838	3
819	IPI00448630	Tax.Id=9606 Gene.Symbol=SARM1 Isoform 1 of Sterile alpha and TIR motif-containing protein 1	79	80365	18
820	IPI00299468	Tax.Id=9606 Gene.Symbol=SCD Acyl-CoA desaturase	79	41667	4
821	IPI00182383	Tax.Id=9606 Gene.Symbol=RP6-213H19.1 serine/threonine protein kinase MST4 isoform 3	79	39861	8
822	IPI00026512	Tax.Id=9606 Gene.Symbol=ERAL1 Isoform HERA-A of GTP-binding protein era homolog	78	48833	5
823	IPI00479823	Tax.Id=9606 Gene.Symbol=RSF1 Isoform 3 of Remodeling and spacing factor 1	78	135961	27

824	IPI00008454	Tax.Id=9606 Gene.Symbol=DNAJB11 DnaJ homolog subfamily B member 11	78	40774	1
825	IPI00011689	Tax.Id=9606 Gene.Symbol=EEF2K Elongation factor 2 kinase	78	82691	8
826	IPI00550363	Tax.Id=9606 Gene.Symbol=TAGLN2 Transgelin-2	78	22548	10
827	IPI00219684	Tax.Id=9606 Gene.Symbol=FABP3 Fatty acid-binding protein, heart	77	14906	5
828	IPI00411706	Tax.Id=9606 Gene.Symbol=ESD S-formylglutathione hydrolase	77	31956	14
829	IPI00642816	Tax.Id=9606 Gene.Symbol=SRP9;hCG_1781062 Signal recognition particle 9 kDa protein	77	10219	4
830	IPI00004358	Tax.Id=9606 Gene.Symbol=PYGB Glycogen phosphorylase, brain form	77	97319	8
831	IPI00893256	Tax.Id=9606 Gene.Symbol=TWIST1 Protein	77	14564	3
832	IPI00022462	Tax.Id=9606 Gene.Symbol=TFRC Transferrin receptor protein 1	77	85274	11
833	IPI00013862	Tax.Id=9606 Gene.Symbol=DTYMK;LOC727761 Thymidylate kinase	76	23976	5
834	IPI00022431	Tax.Id=9606 Gene.Symbol=AHSG Alpha-2-HS-glycoprotein	76	40098	10
835	IPI00011916	Tax.Id=9606 Gene.Symbol=JTV1 Multisynthetase complex auxiliary component p38	76	35668	2
836	IPI00031678	Tax.Id=9606 Gene.Symbol=CCDC77 Coiled-coil domain-containing protein 77	75	58077	7
837	IPI00293757	Tax.Id=9606 Gene.Symbol=UNC5C Isoform 1 of Netrin receptor UNC5C	75	104918	6
838	IPI00019812	Tax.Id=9606 Gene.Symbol=PPP5C Serine/threonine-protein phosphatase 5	75	57412	3
839	IPI00027463	Tax.Id=9606 Gene.Symbol=S100A6 Protein S100-A6	75	10230	7
840	IPI00059292	Tax.Id=9606 Gene.Symbol=MAGOHB Protein mago nashi homolog 2	74	17322	4
841	IPI00017412	Tax.Id=9606 Gene.Symbol=RFC2 Isoform 1 of Replication factor C subunit 2	74	39588	14
842	IPI00026496	Tax.Id=9606 Gene.Symbol=NPM3 Nucleoplasmin-3	74	19617	3
843	IPI00785110	Tax.Id=9606 Gene.Symbol=BPTF Isoform 1 of Nucleosome-remodeling factor subunit BPTF	74	326699	38
844	IPI00026519	Tax.Id=9606 Gene.Symbol=PPIF Peptidyl-prolyl cis-trans isomerase, mitochondrial	74	22368	4
845	IPI00867503	Tax.Id=9606 Gene.Symbol=C17orf71 Isoform 2 of UPF0487 protein C17orf71	74	114629	8
846	IPI00017283	Tax.Id=9606 Gene.Symbol=IARS2 Isoleucyl-tRNA synthetase, mitochondrial	74	114688	10
847	IPI00000897	Tax.Id=9606 Gene.Symbol=HELZ Probable helicase with zinc finger domain	74	220602	27
848	IPI00023529	Tax.Id=9606 Gene.Symbol=CDK6 Cell division protein kinase 6	74	37257	6
849	IPI00166395	Tax.Id=9606 Gene.Symbol=ACSF3 Isoform 1 of Acyl-CoA synthetase family member 3, mitochondrial	74	64700	4
850	IPI00101532	Tax.Id=9606 Gene.Symbol=CEP55 Isoform 1 of Centrosomal protein of 55 kDa	73	54433	11

851	IPI00186338	Tax.Id=9606 Gene.Symbol=LOC645870 similar to barrier-to-autointegration factor	73	9905	3
852	IPI00334627	Tax.Id=9606 Gene.Symbol=ANXA2P2 Putative annexin A2-like protein	73	38806	2
853	IPI00008475	Tax.Id=9606 Gene.Symbol=HMGCS1 Hydroxymethylglutaryl-CoA synthase, cytoplasmic	73	57828	6
854	IPI00644245	Tax.Id=9606 Gene.Symbol=C1orf77 Chromosome 1 open reading frame 77	72	21905	21
855	IPI00555877	Tax.Id=9606 Gene.Symbol=NDUFA10 NADH dehydrogenase (Ubiquinone) 1 alpha subcomplex, 10, 42kDa variant (Fragment)	72	27308	11
856	IPI00010388	Tax.Id=9606 Gene.Symbol=CENPB Major centromere autoantigen B	72	65531	7
857	IPI00221092	Tax.Id=9606 Gene.Symbol=RPS16 40S ribosomal protein S16	72	16549	4
858	IPI00003588	Tax.Id=9606 Gene.Symbol=EEF1E1 Eukaryotic translation elongation factor 1 epsilon-1	72	19855	2
859	IPI00300659	Tax.Id=9606 Gene.Symbol=CDC73 Parafibromin	71	60653	9
860	IPI00002520	Tax.Id=9606 Gene.Symbol=SHMT2 Serine hydroxymethyltransferase, mitochondrial	71	56414	8
861	IPI00007682	Tax.Id=9606 Gene.Symbol=ATP6V1A Vacuolar ATP synthase catalytic subunit A	71	68660	3
862	IPI00013195	Tax.Id=9606 Gene.Symbol=MRPL49 39S ribosomal protein L49, mitochondrial	71	19243	4
863	IPI00294380	Tax.Id=9606 Gene.Symbol=PCK2 Phosphoenolpyruvate carboxykinase [GTP], mitochondrial	71	71447	6
864	IPI00032406	Tax.Id=9606 Gene.Symbol=DNAJA2 DnaJ homolog subfamily A member 2	70	46344	7
865	IPI00641178	Tax.Id=9606 Gene.Symbol=CABC1 Isoform 3 of Chaperone activity of bc1 complex-like, mitochondrial	70	67098	21
866	IPI00141318	Tax.Id=9606 Gene.Symbol=CKAP4 Isoform 1 of Cytoskeleton-associated protein 4	70	66097	11
867	IPI00168388	Tax.Id=9606 Gene.Symbol=SRP68 Isoform 1 of Signal recognition particle 68 kDa protein	70	71199	18
868	IPI00170548	Tax.Id=9606 Gene.Symbol=ATAD2 Isoform 1 of ATPase family AAA domain-containing protein 2	70	159825	13
869	IPI00604763	Tax.Id=9606 Gene.Symbol=TMEM66 Transmembrane protein 66	70	37522	1
870	IPI00009982	Tax.Id=9606 Gene.Symbol=TDRKH Isoform 1 of Tudor and KH domain-containing protein	70	67553	5
871	IPI00395565	Tax.Id=9606 Gene.Symbol=PTGES2 prostaglandin E synthase 2 isoform 2	69	21324	7
872	IPI00019568	Tax.Id=9606 Gene.Symbol=F2 Prothrombin (Fragment)	69	71475	10
873	IPI00032140	Tax.Id=9606 Gene.Symbol=SERPINH1 Serpin H1	69	46525	6
874	IPI00017292	Tax.Id=9606 Gene.Symbol=CTNNB1 Isoform 1 of Catenin beta-1	69	86069	12
875	IPI00413895	Tax.Id=9606 Gene.Symbol=GOLGA2 Golgin subfamily A member 2	69	113644	30

876	IPI00029822	Tax.Id=9606 Gene.Symbol=SMARCA4 SWI/SNF-related matrix-associated actin-dependent regulator of chromatin a4 isoform D	69	188571	12
877	IPI00023302	Tax.Id=9606 Gene.Symbol=SYN2 Isoform IIa of Synapsin-2	68	63214	6
878	IPI00413324	Tax.Id=9606 Gene.Symbol=LOC100133240;RPL17;LOC100133931 60S ribosomal protein L17	68	21611	9
879	IPI00783872	Tax.Id=9606 Gene.Symbol=CAPRIN1 Isoform 1 of Caprin-1	68	78489	8
880	IPI00410714	Tax.Id=9606 Gene.Symbol=HBA1;HBA2 Hemoglobin subunit alpha	68	15305	8
881	IPI00015897	Tax.Id=9606 Gene.Symbol=CHORDC1 Isoform 1 of Cysteine and histidine-rich domain-containing protein 1	68	38264	4
882	IPI00515040	Tax.Id=9606 Gene.Symbol=METTL11A Chromosome 9 open reading frame 32	68	16057	4
883	IPI00302850	Tax.Id=9606 Gene.Symbol=SNRPD1 Small nuclear ribonucleo-protein Sm D1	68	13273	2
884	IPI00216085	Tax.Id=9606 Gene.Symbol=COX6B1 Cytochrome c oxidase sub-unit VIb isoform 1	67	10414	3
885	IPI00413942	Tax.Id=9606 Gene.Symbol=GRIPAP1 96 kDa protein	67	96281	18
886	IPI00171626	Tax.Id=9606 Gene.Symbol=LPCAT1 1-acylglycerophosphocholine O-acyltransferase 1	67	59741	5
887	IPI00179298	Tax.Id=9606 Gene.Symbol=HUWE1 482 kDa protein	66	485780	36
888	IPI00299571	Tax.Id=9606 Gene.Symbol=PDIA6 Isoform 2 of Protein disulfide-isomerase A6	66	54380	5
889	IPI00011857	Tax.Id=9606 Gene.Symbol=CHAF1B Chromatin assembly factor 1 subunit B	66	61910	3
890	IPI00031169	Tax.Id=9606 Gene.Symbol=RAB2A Ras-related protein Rab-2A	66	23702	7
891	IPI00220301	Tax.Id=9606 Gene.Symbol=PRDX6 Peroxiredoxin-6	65	25133	5
892	IPI00024283	Tax.Id=9606 Gene.Symbol=WDFY1 WD repeat and FYVE domain-containing protein 1	65	47320	7
893	IPI00163185	Tax.Id=9606 Gene.Symbol=CENTG3 centaurin, gamma 3 isoform a	65	98860	5
894	IPI00005904	Tax.Id=9606 Gene.Symbol=DDX20 Probable ATP-dependent RNA helicase DDX20	65	92981	7
895	IPI00003394	Tax.Id=9606 Gene.Symbol=SMN1;SMN2;LOC100133835;LOC100 Isoform SMN of Survival motor neuron protein	65	32285	3
896	IPI00103142	Tax.Id=9606 Gene.Symbol=NUDCD2 NudC domain-containing protein 2	65	17836	3
897	IPI00384746	Tax.Id=9606 Gene.Symbol=CPNE8 Copine-8	65	63638	4
898	IPI00301609	Tax.Id=9606 Gene.Symbol=NEK9 Serine/threonine-protein kinase Nek9	65	108868	15
899	IPI00290410	Tax.Id=9606 Gene.Symbol=DNTTIP2 Deoxynucleotidyltransferase terminal-interacting protein 2	65	91128	10
900	IPI00026665	Tax.Id=9606 Gene.Symbol=QARS GlutaminyI-tRNA synthetase	65	90569	6
901	IPI00298111	Tax.Id=9606 Gene.Symbol=SNX6 sorting nexin 6 isoform b	64	48116	8
902	IPI00216393	Tax.Id=9606 Gene.Symbol=CLTA Isoform Non-brain of Clathrin light chain A	64	23704	1

903	IPI00893282	Tax.Id=9606 Gene.Symbol=UNC84A 87 kDa protein	64	87739	6
904	IPI00009057	Tax.Id=9606 Gene.Symbol=G3BP2 Isoform A of Ras GTPase-activating protein-binding protein 2	64	54145	8
905	IPI00016702	Tax.Id=9606 Gene.Symbol=RABGAP1 Isoform 1 of Rab GTPase-activating protein 1	63	122915	18
906	IPI00001636	Tax.Id=9606 Gene.Symbol=ATXN10 Ataxin-10	63	54196	9
907	IPI00002459	Tax.Id=9606 Gene.Symbol=ANXA6 annexin VI isoform 2	63	75571	3
908	IPI00003964	Tax.Id=9606 Gene.Symbol=USP9X ubiquitin specific protease 9, X-linked isoform 4	63	293699	15
909	IPI00019269	Tax.Id=9606 Gene.Symbol=WDR61 WD repeat-containing protein 61	63	33731	3
910	IPI00033023	Tax.Id=9606 Gene.Symbol=KCNAB1 Potassium voltage-gated channel beta subunit	63	41995	14
911	IPI00641117	Tax.Id=9606 Gene.Symbol=IKBKG Inhibitor of kappaB kinase gamma	63	56550	16
912	IPI00041325	Tax.Id=9606 Gene.Symbol=NOLA2 H/ACA ribonucleoprotein complex subunit 2	63	17532	6
913	IPI00021167	Tax.Id=9606 Gene.Symbol=PRKRA Isoform 1 of Interferon-inducible double stranded RNA-dependent protein kinase activator A	62	34839	4
914	IPI00100460	Tax.Id=9606 Gene.Symbol=DARS2 Aspartyl-tRNA synthetase, mitochondrial	62	74086	13
915	IPI00024167	Tax.Id=9606 Gene.Symbol=ESF1 ESF1 homolog	61	99134	14
916	IPI00552753	Tax.Id=9606 Gene.Symbol=CEP68 CEP68 protein (Fragment)	61	74810	2
917	IPI00011698	Tax.Id=9606 Gene.Symbol=SAP18 Histone deacetylase complex subunit SAP18	61	17607	9
918	IPI00742027	Tax.Id=9606 Gene.Symbol=LOC284230 similar to mCG7611	61	12643	4
919	IPI00013871	Tax.Id=9606 Gene.Symbol=RRM1 Ribonucleoside-diphosphate reductase large subunit	61	90925	16
920	IPI00024709	Tax.Id=9606 Gene.Symbol=IKBKB Inhibitor of nuclear factor kappa-B kinase subunit beta	61	87535	19
921	IPI00001757	Tax.Id=9606 Gene.Symbol=RBM8A Isoform 1 of RNA-binding protein 8A	61	19934	2
922	IPI00024821	Tax.Id=9606 Gene.Symbol=PSMD14 26S proteasome non-ATPase regulatory subunit 14	61	34726	3
923	IPI00024279	Tax.Id=9606 Gene.Symbol=HEATR1 HEAT repeat-containing protein 1	61	244382	17
924	IPI00219112	Tax.Id=9606 Gene.Symbol=ID3 DNA-binding protein inhibitor ID-3	61	13246	2
925	IPI00787853	Tax.Id=9606 Gene.Symbol=IMPAD1 Inositol monophosphatase 3	60	38828	5
926	IPI00396321	Tax.Id=9606 Gene.Symbol=LRRC59 Leucine-rich repeat-containing protein 59	60	35308	5
927	IPI00000643	Tax.Id=9606 Gene.Symbol=BAG2 BAG family molecular chaperone regulator 2	60	23928	16
928	IPI00033153	Tax.Id=9606 Gene.Symbol=NXF1 Nuclear RNA export factor 1	60	70652	3

929	IPI00792065	Tax.Id=9606 Gene.Symbol=TOR1AIP1 Isoform 1 of Torsin-1A-interacting protein 1	60	66450	4
930	IPI00251559	Tax.Id=9606 Gene.Symbol=RNF20 E3 ubiquitin-protein ligase BRE1A	60	114534	14
931	IPI00021728	Tax.Id=9606 Gene.Symbol=EIF2S2 Eukaryotic translation initiation factor 2 subunit 2	60	38706	6
932	IPI00297113	Tax.Id=9606 Gene.Symbol=TRIM32 Tripartite motif-containing protein 32	60	73539	16
933	IPI00642042	Tax.Id=9606 Gene.Symbol=TPM3 Putative uncharacterized protein DKFZp686J1372	60	27386	5
934	IPI00743931	Tax.Id=9606 Gene.Symbol=GORASP2 Isoform 1 of Golgi reassembly-stacking protein 2	60	47287	5
935	IPI00010790	Tax.Id=9606 Gene.Symbol=BGN Biglycan	59	42027	3
936	IPI00166010	Tax.Id=9606 Gene.Symbol=CCOT1 Isoform 1 of CCR4-NOT transcription complex subunit 1	59	269106	26
937	IPI00760837	Tax.Id=9606 Gene.Symbol=FAM98B family with sequence similarity 98, member B isoform 1	59	45918	8
938	IPI00401264	Tax.Id=9606 Gene.Symbol=TXNDC4 Thioredoxin domain-containing protein 4	59	47341	5
939	IPI00399212	Tax.Id=9606 Gene.Symbol=LOC389842 similar to RanBP1	59	23508	5
940	IPI00003627	Tax.Id=9606 Gene.Symbol=ACTL6A Isoform 1 of Actin-like protein 6A	59	47944	4
941	IPI00215888	Tax.Id=9606 Gene.Symbol=SRP72 Signal recognition particle 72 kDa protein	59	75130	13
942	IPI00186711	Tax.Id=9606 Gene.Symbol=PLEC1 plectin 1 isoform 6	59	533462	93
943	IPI00299524	Tax.Id=9606 Gene.Symbol=NCAPD2 Condensin complex subunit 1	59	158495	17
944	IPI00152075	Tax.Id=9606 Gene.Symbol=TTC8 Isoform 1 of Tetratricopeptide repeat protein 8	58	60810	6
945	IPI00005792	Tax.Id=9606 Gene.Symbol=PABPN1 Isoform 1 of Polyadenylate-binding protein 2	58	32843	10
946	IPI00300789	Tax.Id=9606 Gene.Symbol=STAU2 Isoform 1 of Double-stranded RNA-binding protein Staufin homolog 2	58	62829	10
947	IPI00303158	Tax.Id=9606 Gene.Symbol=CMAS Isoform 1 of N-acylneuraminate cytidylyltransferase	58	49033	10
948	IPI00167419	Tax.Id=9606 Gene.Symbol=ANKRD44 Isoform 2 of Ankyrin repeat domain-containing protein 44	58	109603	11
949	IPI00847579	Tax.Id=9606 Gene.Symbol=RPS12 ribosomal protein S12	58	14905	5
950	IPI00216088	Tax.Id=9606 Gene.Symbol=CRABP2 Cellular retinoic acid-binding protein 2	58	15854	5
951	IPI00759493	Tax.Id=9606 Gene.Symbol=SUCLG1 succinate-CoA ligase, GDP-forming, alpha subunit	58	36626	2
952	IPI00215790	Tax.Id=9606 Gene.Symbol=RPL38 60S ribosomal protein L38	57	8270	2
953	IPI00795171	Tax.Id=9606 Gene.Symbol=PUS1 42 kDa protein	57	42216	6
954	IPI00002375	Tax.Id=9606 Gene.Symbol=TMOD1 Tropomodulin-1	57	40658	6

955	IPI00216470	Tax.Id=9606 Gene.Symbol=PIP4K2B Isoform 1 of 57 Phosphatidylinositol-5-phosphate 4-kinase type-2 beta	47747	9
956	IPI00411886	Tax.Id=9606 Gene.Symbol=NOC2L Nucleolar complex protein 2 homolog	85707	5
957	IPI00017303	Tax.Id=9606 Gene.Symbol=MSH2 DNA mismatch repair protein Msh2	105418	8
958	IPI00012235	Tax.Id=9606 Gene.Symbol=NDFIP1 Isoform 1 of NEDD4 family-interacting protein 1	24997	3
959	IPI00294229	Tax.Id=9606 Gene.Symbol=RCL1 RNA 3'-terminal phosphate cyclase-like protein	41273	3
960	IPI00556487	Tax.Id=9606 Gene.Symbol=SEC13 Uncharacterized protein SEC13	32031	4
961	IPI00295638	Tax.Id=9606 Gene.Symbol=CNTROB Isoform 1 of Centrobins	101476	12
962	IPI00303300	Tax.Id=9606 Gene.Symbol=FKBP10 FK506-binding protein 10	64717	5
963	IPI00643390	Tax.Id=9606 Gene.Symbol=NUBP2 17 kDa protein	16985	4
964	IPI00012970	Tax.Id=9606 Gene.Symbol=PPP6C Serine/threonine-protein phosphatase 6	35806	3
965	IPI00448095	Tax.Id=9606 Gene.Symbol=DCXR L-xylulose reductase	26182	5
966	IPI00176157	Tax.Id=9606 Gene.Symbol=C5orf37 Isoform 1 of Uncharacterized protein C5orf37	63711	13
967	IPI00000162	Tax.Id=9606 Gene.Symbol=NGDN Isoform 1 of Neuroguidin	35872	7
968	IPI00441952	Tax.Id=9606 Gene.Symbol=NIN Isoform 1 of Ninein	245249	46
969	IPI00218693	Tax.Id=9606 Gene.Symbol=APRT Adenine phosphoribosyl-transferase	19766	5
970	IPI00217914	Tax.Id=9606 Gene.Symbol=C6orf182 Uncharacterized protein C6orf182	54356	25
971	IPI00333763	Tax.Id=9606 Gene.Symbol=GLRX5 Glutaredoxin-related protein 5	16732	2
972	IPI00301618	Tax.Id=9606 Gene.Symbol=SDCCAG1 Isoform 1 of Serologically defined colon cancer antigen 1	123407	13
973	IPI00024157	Tax.Id=9606 Gene.Symbol=FKBP3 FK506-binding protein 3	25218	5
974	IPI00021537	Tax.Id=9606 Gene.Symbol=OGFR Isoform 1 of Opioid growth factor receptor	73850	3
975	IPI00055954	Tax.Id=9606 Gene.Symbol=WDR43 WD repeat-containing protein 43	80209	15
976	IPI00012202	Tax.Id=9606 Gene.Symbol=WDR77 Methylosome protein 50	37442	2
977	IPI00549223	Tax.Id=9606 Gene.Symbol=TBL3 TBL3 protein	77753	8
978	IPI00029422	Tax.Id=9606 Gene.Symbol=KIF20A Kinesin-like protein KIF20A	101242	10
979	IPI00007019	Tax.Id=9606 Gene.Symbol=PPIL1 Peptidyl-prolyl cis-trans isomerase-like 1	18339	2
980	IPI00465233	Tax.Id=9606 Gene.Symbol=EIF3EIP Eukaryotic translation initiation factor 3, subunit E interacting protein	71085	3
981	IPI00163230	Tax.Id=9606 Gene.Symbol=COPS6 COP9 signalosome complex subunit 6	36482	1

982	IPI00293009	Tax.Id=9606 Gene.Symbol=RABEP1 Isoform 1 of Rab GTPase-binding effector protein 1	53	99629	28
983	IPI00299507	Tax.Id=9606 Gene.Symbol=NCAPH Condensin complex subunit 2	53	83310	11
984	IPI00300127	Tax.Id=9606 Gene.Symbol=NAT10 N-acetyltransferase 10	53	116543	4
985	IPI00009922	Tax.Id=9606 Gene.Symbol=C14orf156 SRA stem-loop-interacting RNA-binding protein, mitochondrial	52	12398	3
986	IPI00219871	Tax.Id=9606 Gene.Symbol=LSM8 U6 snRNA-associated Sm-like protein LSM8	52	10396	2
987	IPI00009904	Tax.Id=9606 Gene.Symbol=PDIA4 Protein disulfide-isomerase A4	52	73229	5
988	IPI00002398	Tax.Id=9606 Gene.Symbol=KLHL13 kelch-like 13	52	74618	3
989	IPI00087498	Tax.Id=9606 Gene.Symbol=ESCO2 N-acetyltransferase ESCO2	52	69233	2
990	IPI00022774	Tax.Id=9606 Gene.Symbol=VCP Transitional endoplasmic reticulum ATPase	52	89950	8
991	IPI00096972	Tax.Id=9606 Gene.Symbol=EHMT2 Isoform 1 of Histone-lysine N-methyltransferase, H3 lysine-9 specific 3	52	134682	7
992	IPI00878570	Tax.Id=9606 Gene.Symbol=CSNK1E Casein kinase 1, epsilon	52	25770	4
993	IPI00027087	Tax.Id=9606 Gene.Symbol=L1CAM Isoform 1 of Neural cell adhesion molecule L1	52	140885	17
994	IPI00177856	Tax.Id=9606 Gene.Symbol=C14orf172 Isoform 2 of tRNA (adenine-N(1)-)-methyltransferase catalytic subunit TRM61	52	35088	1
995	IPI00299254	Tax.Id=9606 Gene.Symbol=EIF5B Eukaryotic translation initiation factor 5B	51	139171	13
996	IPI00023101	Tax.Id=9606 Gene.Symbol=RQCD1 Cell differentiation protein RCD1 homolog	51	33952	10
997	IPI00418316	Tax.Id=9606 Gene.Symbol=ZMYND8 RACK7 isoform e	51	138735	10
998	IPI00465294	Tax.Id=9606 Gene.Symbol=CDC5L Cell division cycle 5-like protein	51	92422	15
999	IPI00038378	Tax.Id=9606 Gene.Symbol=ENOPH1 Isoform 1 of Enolase-phosphatase E1	51	29086	4
1000	IPI00012340	Tax.Id=9606 Gene.Symbol=SFRS9 Splicing factor, arginine/serine-rich 9	51	25640	2
1001	IPI00016736	Tax.Id=9606 Gene.Symbol=PLCG1 1-phosphatidylinositol-4,5-bisphosphate phosphodiesterase gamma-1	51	149749	7
1002	IPI00017596	Tax.Id=9606 Gene.Symbol=MAPRE1 Microtubule-associated protein RP/EB family member 1	51	30151	5
1003	IPI00410717	Tax.Id=9606 Gene.Symbol=POGZ Isoform 1 of Pogo transposable element with ZNF domain	50	157355	7
1004	IPI00024567	Tax.Id=9606 Gene.Symbol=GLTSCR2 Glioma tumor suppressor candidate region gene 2 protein	50	54470	7
1005	IPI00216734	Tax.Id=9606 Gene.Symbol=CBWD2 COBW domain-containing protein 2	50	44349	9
1006	IPI00219077	Tax.Id=9606 Gene.Symbol=LTA4H Isoform 1 of Leukotriene A-4 hydrolase	50	69868	19

1007	IPI00419575	Tax.Id=9606 Gene.Symbol=C7orf20 Protein of unknown function DUF410 family protein	50	36808	7
1008	IPI00007074	Tax.Id=9606 Gene.Symbol=YARS Tyrosyl-tRNA synthetase, cytoplasmic	50	59448	14
1009	IPI00400922	Tax.Id=9606 Gene.Symbol=PDCD11 Protein RRP5 homolog	50	209939	19
1010	IPI00375441	Tax.Id=9606 Gene.Symbol=FUBP1 Isoform 1 of Far upstream element-binding protein 1	50	67690	20
1011	IPI00016621	Tax.Id=9606 Gene.Symbol=AP2A2 Adaptor-related protein complex 2, alpha 2 subunit variant (Fragment)	50	104936	10
1012	IPI00013847	Tax.Id=9606 Gene.Symbol=UQCRC1 Cytochrome b-c1 complex subunit 1, mitochondrial	50	53297	6
1013	IPI00479946	Tax.Id=9606 Gene.Symbol=STIP1 STIP1 protein	49	68687	12
1014	IPI00104050	Tax.Id=9606 Gene.Symbol=THRAP3 Thyroid hormone receptor-associated protein 3	49	108658	11
1015	IPI00472451	Tax.Id=9606 Gene.Symbol=VAV2 Isoform 1 of Guanine nucleotide exchange factor VAV2	49	102478	23
1016	IPI00007034	Tax.Id=9606 Gene.Symbol=UBAC2 Isoform 2 of Ubiquitin-associated domain-containing protein 2	49	35481	7
1017	IPI00065500	Tax.Id=9606 Gene.Symbol=C1orf58 BRO1 domain-containing protein BROX	49	46960	5
1018	IPI00010270	Tax.Id=9606 Gene.Symbol=RAC2 Ras-related C3 botulinum toxin substrate 2	49	21814	9
1019	IPI00010346	Tax.Id=9606 Gene.Symbol=NLN Neurolysin, mitochondrial	48	81341	11
1020	IPI00030847	Tax.Id=9606 Gene.Symbol=TM9SF3 Transmembrane 9 superfamily member 3	48	68584	9
1021	IPI00646500	Tax.Id=9606 Gene.Symbol=RPA2 Isoform 3 of Replication protein A 32 kDa subunit	48	38957	4
1022	IPI00006658	Tax.Id=9606 Gene.Symbol=PIN4 protein (peptidyl-prolyl cis/trans isomerase) NIMA-interacting, 4	48	16655	2
1023	IPI00796868	Tax.Id=9606 Gene.Symbol=CHMP6 13 kDa protein	48	13146	12
1024	IPI00328825	Tax.Id=9606 Gene.Symbol=N4BP2 Isoform 1 of NEDD4-binding protein 2	47	200444	14
1025	IPI00013468	Tax.Id=9606 Gene.Symbol=BUB3 Mitotic checkpoint protein BUB3	47	37587	1
1026	IPI00871281	Tax.Id=9606 Gene.Symbol=PRC1 77 kDa protein	47	77893	13
1027	IPI00013457	Tax.Id=9606 Gene.Symbol=ZNF207 Isoform 1 of Zinc finger protein 207	47	51002	4
1028	IPI00016339	Tax.Id=9606 Gene.Symbol=RAB5C Ras-related protein Rab-5C	47	23696	5
1029	IPI00657645	Tax.Id=9606 Gene.Symbol=XRN1 Isoform 2 of 5'-3' exoribonuclease 1	47	194261	15
1030	IPI00005102	Tax.Id=9606 Gene.Symbol=SMS Isoform 1 of Spermine synthase	47	41698	2
1031	IPI00009010	Tax.Id=9606 Gene.Symbol=HSPC152 TRM112-like protein	47	14304	2
1032	IPI00550069	Tax.Id=9606 Gene.Symbol=RNH1 Ribonuclease inhibitor	47	51766	3
1033	IPI00384556	Tax.Id=9606 Gene.Symbol=UBTF Ribosomal RNA upstream binding transcription factor (Fragment)	46	76120	31
1034	IPI00299214	Tax.Id=9606 Gene.Symbol=TK1 Thymidine kinase, cytosolic	46	26079	3

1035	IPI00784156	Tax.Id=9606 Gene.Symbol=AP2B1 Isoform 1 of AP-2 complex subunit beta-1	46	105398	10
1036	IPI00291200	Tax.Id=9606 Gene.Symbol=NUP133 Nuclear pore complex protein Nup133	46	129924	8
1037	IPI00217200	Tax.Id=9606 Gene.Symbol=STXBP4 Isoform 1 of Syntaxin-binding protein 4	46	62236	5
1038	IPI00006298	Tax.Id=9606 Gene.Symbol=PPIG Isoform 1 of Peptidyl-prolyl cis-trans isomerase G	46	89078	11
1039	IPI00056357	Tax.Id=9606 Gene.Symbol=C19orf10 UPF0556 protein C19orf10	46	18897	2
1040	IPI00746694	Tax.Id=9606 Gene.Symbol=C22orf32 Similar to Cullin-associated NEDD8-dissociated protein 1	46	137983	13
1041	IPI00037448	Tax.Id=9606 Gene.Symbol=GRHPR Glyoxylate reductase/hydroxypyruvate reductase	46	36045	4
1042	IPI00797603	Tax.Id=9606 Gene.Symbol=PRPSAP1 Phosphoribosyl pyrophosphate synthetase-associated protein 1	46	42726	3
1043	IPI00645211	Tax.Id=9606 Gene.Symbol=TRAPPC2L 13 kDa protein	45	12846	9
1044	IPI00478327	Tax.Id=9606 Gene.Symbol=- Similar to 40S ribosomal protein S9	45	22788	6
1045	IPI00240675	Tax.Id=9606 Gene.Symbol=PDCD4 programmed cell death 4 isoform 2	45	50944	8
1046	IPI00550852	Tax.Id=9606 Gene.Symbol=DCTN4 Dynactin subunit 4	45	53216	3
1047	IPI00290460	Tax.Id=9606 Gene.Symbol=EIF3G Eukaryotic translation initiation factor 3 subunit G	45	35874	7
1048	IPI00072534	Tax.Id=9606 Gene.Symbol=UNC45A Isoform 1 of UNC45 homolog A	45	104266	5
1049	IPI00018214	Tax.Id=9606 Gene.Symbol=MAX Isoform 1 of Protein max	45	18264	5
1050	IPI00030320	Tax.Id=9606 Gene.Symbol=DDX6 Probable ATP-dependent RNA helicase DDX6	45	54781	12
1051	IPI00789455	Tax.Id=9606 Gene.Symbol=KATNAL1 Katanin p60 ATPase-containing subunit A-like 1	45	55699	3
1052	IPI00376960	Tax.Id=9606 Gene.Symbol=RBM23 Isoform 2 of Probable RNA-binding protein 23	45	46965	7
1053	IPI00455428	Tax.Id=9606 Gene.Symbol=LOC440589 hypothetical protein	45	30202	8
1054	IPI00294242	Tax.Id=9606 Gene.Symbol=MRPS31 28S ribosomal protein S31, mitochondrial	45	45405	11
1055	IPI00465160	Tax.Id=9606 Gene.Symbol=ABCF3 Isoform 1 of ATP-binding cassette sub-family F member 3	45	80094	10
1056	IPI00878105	Tax.Id=9606 Gene.Symbol=- 12 kDa protein	45	12003	3
1057	IPI00244391	Tax.Id=9606 Gene.Symbol=XDH Xanthine dehydrogenase/oxidase	45	148611	13
1058	IPI00029447	Tax.Id=9606 Gene.Symbol=GOSR1 Golgi SNAP receptor complex member 1	44	28709	12
1059	IPI00303292	Tax.Id=9606 Gene.Symbol=KPNA1 Importin subunit alpha-1	44	60952	4
1060	IPI00219155	Tax.Id=9606 Gene.Symbol=RPL27 60S ribosomal protein L27	44	15788	3
1061	IPI00011937	Tax.Id=9606 Gene.Symbol=PRDX4 Peroxiredoxin-4	44	30749	4
1062	IPI00024934	Tax.Id=9606 Gene.Symbol=MUT Methylmalonyl-CoA mutase, mitochondrial	44	83524	8

1063	IPI00221088	Tax.Id=9606 Gene.Symbol=RPS9 40S ribosomal protein S9	44	22635	7
1064	IPI00013068	Tax.Id=9606 Gene.Symbol=EIF3E Eukaryotic translation initiation factor 3 subunit E	44	52587	18
1065	IPI00027547	Tax.Id=9606 Gene.Symbol=DCD Dermcidin	44	11391	1
1066	IPI00215918	Tax.Id=9606 Gene.Symbol=ARF4 ADP-ribosylation factor 4	44	20612	4
1067	IPI00016725	Tax.Id=9606 Gene.Symbol=GTF3C4 General transcription factor 3C polypeptide 4	44	93140	10
1068	IPI00019385	Tax.Id=9606 Gene.Symbol=SSR4 Translocon-associated protein subunit delta precursor	44	20371	5
1069	IPI00410319	Tax.Id=9606 Gene.Symbol=C10orf46 Isoform 1 of Uncharacterized protein C10orf46	44	41323	6
1070	IPI00021552	Tax.Id=9606 Gene.Symbol=B3GALNT1 UDP-GalNAc:beta-1,3-N-acetylgalactosaminyltransferase 1	44	39828	2
1071	IPI00845312	Tax.Id=9606 Gene.Symbol=FAM92A1 Isoform 2 of Protein FAM92A1	44	29164	6
1072	IPI00441867	Tax.Id=9606 Gene.Symbol=PEX19 Isoform 1 of Peroxisomal biogenesis factor 19	44	33071	2
1073	IPI00029601	Tax.Id=9606 Gene.Symbol=CTTN Src substrate cortactin	44	61770	7
1074	IPI00789801	Tax.Id=9606 Gene.Symbol=KIAA1524 Isoform 2 of Protein KIAA1524	43	85381	9
1075	IPI00006099	Tax.Id=9606 Gene.Symbol=BMS1 Ribosome biogenesis protein BMS1 homolog	43	146571	17
1076	IPI00383680	Tax.Id=9606 Gene.Symbol=RPN2 Ribophorin II	43	67681	6
1077	IPI00033611	Tax.Id=9606 Gene.Symbol=RBMS1 Isoform 2 of RNA-binding motif, single-stranded-interacting protein 1	43	44337	3
1078	IPI00010219	Tax.Id=9606 Gene.Symbol=SPC25 Kinetochore protein Spc25	43	26194	10
1079	IPI00290812	Tax.Id=9606 Gene.Symbol=TTF2 Isoform 1 of Transcription termination factor 2	42	130762	19
1080	IPI00007411	Tax.Id=9606 Gene.Symbol=AKAP11 A-kinase anchor protein 11	42	212946	12
1081	IPI00294749	Tax.Id=9606 Gene.Symbol=KIF27 Isoform 1 of Kinesin-like protein KIF27	42	161324	33
1082	IPI00160901	Tax.Id=9606 Gene.Symbol=GTSE1 G2 and S phase-expressed protein 1	42	77081	11
1083	IPI00178744	Tax.Id=9606 Gene.Symbol=ACADVL Isoform 2 of Very long-chain specific acyl-CoA dehydrogenase, mitochondrial	42	73288	17
1084	IPI00465260	Tax.Id=9606 Gene.Symbol=GARS 85 kDa protein	42	85208	14
1085	IPI00292135	Tax.Id=9606 Gene.Symbol=LBR Lamin-B receptor	42	71057	9
1086	IPI00000030	Tax.Id=9606 Gene.Symbol=PPP2R5D Isoform Delta-1 of Serine/threonine-protein phosphatase 2A 56 kDa regulatory subunit delta isoform	42	70289	8
1087	IPI00456359	Tax.Id=9606 Gene.Symbol=ATXN2L Isoform 1 of Ataxin-2-like protein	42	113589	22
1088	IPI00514908	Tax.Id=9606 Gene.Symbol=KPRP Keratinocyte proline-rich protein	42	67172	3
1089	IPI00798166	Tax.Id=9606 Gene.Symbol=CASP3 Uncharacterized protein CASP3	42	21668	3

1090	IPI00027831	Tax_Id=9606 Gene_Symbol=GRWD1 Glutamate-rich repeat-containing protein 1	WD 42	49787	4
1091	IPI00005161	Tax_Id=9606 Gene_Symbol=ARPC2 Actin-related protein 2/3 complex subunit 2	42	34426	3
1092	IPI00169325	Tax_Id=9606 Gene_Symbol=WDR36 WD repeat-containing protein 36	42	106282	7
1093	IPI00029012	Tax_Id=9606 Gene_Symbol=EIF3A Eukaryotic translation initiation factor 3 subunit A	42	166867	24
1094	IPI00797383	Tax_Id=9606 Gene_Symbol=SPAG5 128 kDa protein	42	129422	18
1095	IPI00019894	Tax_Id=9606 Gene_Symbol=UBE2K Isoform 2 of Ubiquitin-conjugating enzyme E2 K	41	16722	4
1096	IPI00395568	Tax_Id=9606 Gene_Symbol=PHF6 Isoform 1 of PHD finger protein 6	41	42404	5
1097	IPI00441473	Tax_Id=9606 Gene_Symbol=PRMT5 Protein arginine N-methyltransferase 5	41	73322	7
1098	IPI00017448	Tax_Id=9606 Gene_Symbol=RPS21 40S ribosomal protein S21	41	9220	12
1099	IPI00002255	Tax_Id=9606 Gene_Symbol=LRBA Lipopolysaccharide-responsive and beige-like anchor protein	41	321639	21
1100	IPI00329327	Tax_Id=9606 Gene_Symbol=FRAS1 Isoform 2 of Extracellular matrix protein FRAS1	41	454640	13
1101	IPI00395813	Tax_Id=9606 Gene_Symbol=ZNF687 Isoform 1 of Zinc finger protein 687	41	131898	19
1102	IPI00651776	Tax_Id=9606 Gene_Symbol=TAGAP Isoform 3 of T-cell activation Rho GTPase-activating protein	41	57284	14
1103	IPI00295851	Tax_Id=9606 Gene_Symbol=COPB1 Coatomer subunit beta	41	108214	19
1104	IPI00028338	Tax_Id=9606 Gene_Symbol=SELI Ethanolaminephosphotransferase 1	41	45608	4
1105	IPI00293735	Tax_Id=9606 Gene_Symbol=IKBKAP Elongator complex protein 1	41	151693	10
1106	IPI00395887	Tax_Id=9606 Gene_Symbol=TXNDC1 Thioredoxin domain-containing protein 1	41	32170	2
1107	IPI00855788	Tax_Id=9606 Gene_Symbol=NUSAP1 Isoform 4 of Nucleolar and spindle-associated protein 1	41	47712	8
1108	IPI00167009	Tax_Id=9606 Gene_Symbol=MAP7D1 Isoform 3 of MAP7 domain-containing protein 1	41	42137	19
1109	IPI00302238	Tax_Id=9606 Gene_Symbol=AATF Protein AATF	41	63208	3
1110	IPI00102752	Tax_Id=9606 Gene_Symbol=RBM15 Isoform 1 of Putative RNA-binding protein 15	40	107352	9
1111	IPI00427242	Tax_Id=9606 Gene_Symbol=FCF1 rRNA-processing protein FCF1 homolog	40	23810	5
1112	IPI00009668	Tax_Id=9606 Gene_Symbol=CENPH Centromere protein H	40	28520	8
1113	IPI00014850	Tax_Id=9606 Gene_Symbol=PEA15 Astrocytic phosphoprotein PEA-15	40	15088	2
1114	IPI00005264	Tax_Id=9606 Gene_Symbol=PKP2 Isoform 2 of Plakophilin-2	40	97852	5
1115	IPI00043740	Tax_Id=9606 Gene_Symbol=SCLT1 Isoform 1 of Sodium channel and clathrin linker 1	40	81276	29

1116	IPI00291646	Tax_Id=9606 Gene_Symbol=MTHFD1L Isoform 1 of Monofunc- tional C1-tetrahydrofolate synthase, mitochondrial	40	106636	10
1117	IPI00012493	Tax_Id=9606 Gene_Symbol=RPS20 40S ribosomal protein S20	40	13478	2
1118	IPI00103373	Tax_Id=9606 Gene_Symbol=CYGB Cytoglobin	40	21505	3

SILAC2 total cell lysate

Peak list format	Mascot generic
Search type	MIS
Mascot version	2.2.06
Database	IPI_human
Fasta file	ipi.HUMAN.v3.47.fasta
Total sequences	72082
Total residues	30228094
Sequences after taxonomy filter	72082
Number of queries	4103

Decoy

Number of matches above identity threshold in search of real database	2362
Number of matches above identity threshold in search of decoy database	13
Number of matches above homology threshold in search of real database	3698
Number of matches above homology threshold in search of decoy database	45

Variable modifications

Identifier	Name	Delta	Neutral loss(es)
1	Acetyl (Protein N-term)	42.010559	0
2	Deamidated (NQ)	0.984009	0
3	Oxidation (M)	15.994919	63.9983 0
4	Label:2H(4) (K)	4.025101	0
5	Label:13C(6) (R)	6.020126	0

Search Parameters

Taxonomy filter	All entries
Enzyme	Trypsin/P
Maximum Missed Cleavages	2
Fixed modifications	Carbamidomethyl (C)
Quantitation method	SILAC K+4 R+6
Variable modifications	Acetyl (Protein N-term),Deamidated (NQ),Oxidation (M)
Peptide Mass Tolerance	20
Peptide Mass Tolerance Units	ppm
Fragment Mass Tolerance	0.6
Fragment Mass Tolerance Units	Da
Mass values	Monoisotopic
Instrument type	ESI-TRAP
Isotope error mode	2
Decoy database also searched	1

Format parameters	
Significance threshold	0.05
Max. number of hits	0
Use MudPIT protein scoring	1
Ions score cut-off	0
Include same-set proteins	0
Include sub-set proteins	0
Include unassigned	0
Require bold red	1

Protein hits							
Protein number	hit	Accession	Protein Description	Protein score	Protein mass	Protein matches	Coverage
1		IPI00021440	Tax.Id=9606 Gene.Symbol=ACTG1 Actin, cytoplasmic 2	1919	42108	69	58.9
2		IPI00011654	Tax.Id=9606 Gene.Symbol=TUBB Tubulin beta chain	1818	50095	86	56.8
3		IPI00021439	Tax.Id=9606 Gene.Symbol=ACTB Actin, cytoplasmic 1	1817	42052	66	58.9
4		IPI00479186	Tax.Id=9606 Gene.Symbol=PKM2 Isoform M2 of Pyruvate kinase isozymes M1/M2	1788	58470	61	49.7
5		IPI00414676	Tax.Id=9606 Gene.Symbol=HSP90AB1 Heat shock protein HSP 90-beta	1720	83554	68	43.9
6		IPI00007752	Tax.Id=9606 Gene.Symbol=TUBB2C Tubulin beta-2C chain	1641	50255	79	56.6
7		IPI00784154	Tax.Id=9606 Gene.Symbol=HSPD1 60 kDa heat shock protein, mitochondrial	1606	61187	58	47.1
8		IPI00013475	Tax.Id=9606 Gene.Symbol=TUBB2A Tubulin beta-2A chain	1598	50274	81	54.6
9		IPI00013683	Tax.Id=9606 Gene.Symbol=TUBB3 Tubulin beta-3 chain	1467	50856	63	46.4
10		IPI00003865	Tax.Id=9606 Gene.Symbol=HSPA8 Isoform 1 of Heat shock cognate 71 kDa protein	1467	71082	71	43
11		IPI00180675	Tax.Id=9606 Gene.Symbol=TUBA1A Tubulin alpha-1A chain	1420	50788	51	57
12		IPI00387144	Tax.Id=9606 Gene.Symbol=TUBA1B Tubulin alpha-1B chain	1386	50804	50	57
13		IPI00382470	Tax.Id=9606 Gene.Symbol=HSP90AA1 heat shock protein 90kDa alpha (cytosolic), class A member 1 isoform 1	1312	98670	47	25.5
14		IPI00169383	Tax.Id=9606 Gene.Symbol=PGK1 Phosphoglycerate kinase 1	1063	44985	44	56.8
15		IPI00465439	Tax.Id=9606 Gene.Symbol=ALDOA Fructose-bisphosphate aldolase A	1056	39851	33	41.2
16		IPI00219018	Tax.Id=9606 Gene.Symbol=GAPDH Glyceraldehyde-3-phosphate dehydrogenase	1054	36201	41	46.9
17		IPI00008868	Tax.Id=9606 Gene.Symbol=MAP1B Microtubule-associated protein 1B	961	271651	36	11.1
18		IPI00419585	Tax.Id=9606 Gene.Symbol=PPIA Peptidyl-prolyl cis-trans isomerase A	954	18229	35	57
19		IPI00303476	Tax.Id=9606 Gene.Symbol=ATP5B ATP synthase subunit beta, mitochondrial	937	56525	32	31.2
20		IPI00007765	Tax.Id=9606 Gene.Symbol=HSPA9 Stress-70 protein, mitochondrial	881	73920	30	26.1
21		IPI00465248	Tax.Id=9606 Gene.Symbol=ENO1 Isoform alpha-enolase of Alpha-enolase	868	47481	46	38

22	IPI00291006	Tax.Id=9606 Gene.Symbol=MDH2 Malate dehydrogenase, mitochondrial	823	35965	26	39.1
23	IPI00220740	Tax.Id=9606 Gene.Symbol=NPM1 Isoform 2 of Nucleophosmin	764	29617	26	37.4
24	IPI00440493	Tax.Id=9606 Gene.Symbol=ATP5A1 ATP synthase subunit alpha, mitochondrial	751	59828	29	34.9
25	IPI00465028	Tax.Id=9606 Gene.Symbol=TPI1 Isoform 1 of Triosephosphate isomerase	733	31057	32	55.2
26	IPI00645078	Tax.Id=9606 Gene.Symbol=UBA1 Ubiquitin-like modifier-activating enzyme 1	713	118858	35	20.9
27	IPI00021405	Tax.Id=9606 Gene.Symbol=LMNA Isoform A of Lamin-A/C	697	74380	32	36.1
28	IPI00302592	Tax.Id=9606 Gene.Symbol=FLNA filamin A, alpha isoform 1	691	282581	28	10.8
29	IPI00444262	Tax.Id=9606 Gene.Symbol=NCL cDNA FLJ45706 fis, clone FEBRA2028457, highly similar to Nucleolin	674	65979	29	28.7
30	IPI00022977	Tax.Id=9606 Gene.Symbol=CKB Creatine kinase B-type	659	42902	24	33.6
31	IPI00021263	Tax.Id=9606 Gene.Symbol=YWHAZ 14-3-3 protein zeta/delta	636	27899	25	50.2
32	IPI00186290	Tax.Id=9606 Gene.Symbol=EEF2 Elongation factor 2	634	96246	33	24.5
33	IPI00257508	Tax.Id=9606 Gene.Symbol=DPYSL2 Dihydropyrimidinase-related protein 2	626	62711	25	27.4
34	IPI00000816	Tax.Id=9606 Gene.Symbol=YWHAE 14-3-3 protein epsilon	595	29326	21	56.1
35	IPI00396485	Tax.Id=9606 Gene.Symbol=EEF1A1 Elongation factor 1-alpha 1	582	50451	36	42
36	IPI00297779	Tax.Id=9606 Gene.Symbol=CCT2 T-complex protein 1 subunit beta	580	57794	17	26
37	IPI00219757	Tax.Id=9606 Gene.Symbol=GSTP1 Glutathione S-transferase P	577	23569	19	41.4
38	IPI00216049	Tax.Id=9606 Gene.Symbol=HNRNPK Isoform 1 of Heterogeneous nuclear ribonucleoprotein K	570	51230	23	30.2
39	IPI00030363	Tax.Id=9606 Gene.Symbol=ACAT1 Acetyl-CoA acetyltransferase, mitochondrial	551	45456	17	30.9
40	IPI00026781	Tax.Id=9606 Gene.Symbol=FASN Fatty acid synthase	548	275850	32	10.5
41	IPI00219446	Tax.Id=9606 Gene.Symbol=PEBP1 Phosphatidylethanolamine-binding protein 1	548	21158	14	45.5
42	IPI00420108	Tax.Id=9606 Gene.Symbol=DLST Dihydrolipoyllysine-residue succinyltransferase component of 2-oxoglutarate dehydrogenase complex, mitochondrial	513	48952	14	17.4
43	IPI00163187	Tax.Id=9606 Gene.Symbol=FSCN1 Fascin	510	55123	17	25.8
44	IPI00783271	Tax.Id=9606 Gene.Symbol=LRPPRC Leucine-rich PPR motif-containing protein, mitochondrial	493	159003	21	12.7
45	IPI00218993	Tax.Id=9606 Gene.Symbol=HSPH1 Isoform Beta of Heat shock protein 105 kDa	489	92970	20	23.1
46	IPI00215965	Tax.Id=9606 Gene.Symbol=HNRNPA1 Isoform A1-B of Heterogeneous nuclear ribonucleoprotein A1	486	38936	15	23.9
47	IPI00003362	Tax.Id=9606 Gene.Symbol=HSPA5 HSPA5 protein	477	72492	32	30.7
48	IPI00304925	Tax.Id=9606 Gene.Symbol=HSPA1B;HSPA1A Heat shock 70 kDa protein 1	476	70294	28	32.1
49	IPI00030275	Tax.Id=9606 Gene.Symbol=TRAP1 Heat shock protein 75 kDa, mitochondrial	471	80345	13	14.5

50	IPI00290566	Tax.Id=9606 Gene.Symbol=TCP1 T-complex protein 1 subunit alpha	471	60819	20	29.1
51	IPI00018352	Tax.Id=9606 Gene.Symbol=UCHL1 Ubiquitin carboxyl-terminal hydrolase isozyme L1	470	25151	29	60.1
52	IPI00550363	Tax.Id=9606 Gene.Symbol=TAGLN2 Transgelin-2	470	22548	16	44.2
53	IPI00018146	Tax.Id=9606 Gene.Symbol=YWHAQ 14-3-3 protein theta	466	28032	22	51.8
54	IPI00025252	Tax.Id=9606 Gene.Symbol=PDIA3 Protein disulfide-isomerase A3	445	57146	24	25.5
55	IPI00017726	Tax.Id=9606 Gene.Symbol=HSD17B10 Isoform 1 of 3-hydroxyacyl-CoA dehydrogenase type-2	440	27134	14	41
56	IPI00455315	Tax.Id=9606 Gene.Symbol=ANXA2 Annexin A2	436	38808	27	43.1
57	IPI00216318	Tax.Id=9606 Gene.Symbol=YWHAB Isoform Long of 14-3-3 protein beta/alpha	433	28179	19	50.8
58	IPI00220642	Tax.Id=9606 Gene.Symbol=YWHAG 14-3-3 protein gamma	431	28456	18	44.1
59	IPI00000877	Tax.Id=9606 Gene.Symbol=HYOU1 Hypoxia up-regulated protein 1	408	111494	16	9.9
60	IPI00375015	Tax.Id=9606 Gene.Symbol=DUT Isoform DUT-N of Deoxyuridine 5'-triphosphate nucleotidohydrolase, mitochondrial	408	17908	17	42.7
61	IPI00002966	Tax.Id=9606 Gene.Symbol=HSPA4 Heat shock 70 kDa protein 4	401	95096	12	13.6
62	IPI00413108	Tax.Id=9606 Gene.Symbol=RPSA 33 kDa protein	400	33464	18	32.7
63	IPI00299024	Tax.Id=9606 Gene.Symbol=BASP1 Brain acid soluble protein 1	397	22680	19	71.4
64	IPI00012011	Tax.Id=9606 Gene.Symbol=CFL1 Cofilin-1	392	18719	12	53
65	IPI00021700	Tax.Id=9606 Gene.Symbol=PCNA Proliferating cell nuclear antigen	385	29092	26	44.1
66	IPI00302925	Tax.Id=9606 Gene.Symbol=CCT8 59 kDa protein	384	60011	20	29.1
67	IPI00011200	Tax.Id=9606 Gene.Symbol=PHGDH D-3-phosphoglycerate dehydrogenase	380	57356	16	21.6
68	IPI00015964	Tax.Id=9606 Gene.Symbol=GAP43 Neuromodulin	378	24902	22	65.1
69	IPI00027107	Tax.Id=9606 Gene.Symbol=TUFM Tu translation elongation factor, mitochondrial precursor	371	50185	12	17.1
70	IPI00645948	Tax.Id=9606 Gene.Symbol=HMGB1 High-mobility group box 1	369	18967	19	53.7
71	IPI00001453	Tax.Id=9606 Gene.Symbol=INA Alpha-internexin	364	55528	13	20.8
72	IPI00411704	Tax.Id=9606 Gene.Symbol=EIF5A Isoform 1 of Eukaryotic translation initiation factor 5A-1	364	17049	17	33.1
73	IPI00216691	Tax.Id=9606 Gene.Symbol=PFN1 Profilin-1	358	15216	19	70.7
74	IPI00025491	Tax.Id=9606 Gene.Symbol=EIF4A1 Eukaryotic initiation factor 4A-I	356	46353	16	30
75	IPI00003815	Tax.Id=9606 Gene.Symbol=ARHGDIA Rho GDP-dissociation inhibitor 1	355	23250	13	29.4
76	IPI00216308	Tax.Id=9606 Gene.Symbol=VDAC1 Voltage-dependent anion-selective channel protein 1	355	30868	25	35
77	IPI00218319	Tax.Id=9606 Gene.Symbol=TPM3 Isoform 2 of Tropomyosin alpha-3 chain	353	29243	13	33.9
78	IPI00008524	Tax.Id=9606 Gene.Symbol=PABPC1 Isoform 1 of Polyadenylate-binding protein 1	348	70854	12	13.1
79	IPI00027497	Tax.Id=9606 Gene.Symbol=GPI Glucose-6-phosphate isomerase	343	63335	15	19.4

80	IPI00219217	Tax_Id=9606 Gene_Symbol=LDHB L-lactate dehydrogenase B chain	343	36900	19	29.6
81	IPI00020101	Tax_Id=9606 Gene_Symbol=HIST1H2BI;HIST1H2BG;HIST1H2BI histone cluster 1, H2bg	342	13898	12	45.2
82	IPI00000494	Tax_Id=9606 Gene_Symbol=RPL5 60S ribosomal protein L5	339	34569	10	18.2
83	IPI00013808	Tax_Id=9606 Gene_Symbol=ACTN4 Alpha-actinin-4	339	105245	17	14.7
84	IPI00299571	Tax_Id=9606 Gene_Symbol=PDIA6 Isoform 2 of Protein disulfide-isomerase A6	336	54380	12	18.1
85	IPI00016610	Tax_Id=9606 Gene_Symbol=PCBP1 Poly(rC)-binding protein 1	330	37987	9	18
86	IPI00022774	Tax_Id=9606 Gene_Symbol=VCP Transitional endoplasmic reticulum ATPase	318	89950	16	19
87	IPI00022744	Tax_Id=9606 Gene_Symbol=CSE1L Isoform 1 of Exportin-2	315	111145	8	4.1
88	IPI00414123	Tax_Id=9606 Gene_Symbol=CRMP1 Dihydropyrimidinase-related protein 1	311	62487	15	14.3
89	IPI00008603	Tax_Id=9606 Gene_Symbol=ACTA2 Actin, aortic smooth muscle	309	42381	30	39.3
90	IPI00746388	Tax_Id=9606 Gene_Symbol=EZR Ezrin	308	69353	9	11.8
91	IPI00217975	Tax_Id=9606 Gene_Symbol=LMNB1 Lamin-B1	308	66653	13	18.3
92	IPI00025849	Tax_Id=9606 Gene_Symbol=ANP32A Acidic leucine-rich nuclear phosphoprotein 32 family member A	308	28682	7	20.1
93	IPI00644079	Tax_Id=9606 Gene_Symbol=HNRNPU heterogeneous nuclear ribonucleoprotein U isoform a	305	91269	24	18.8
94	IPI00013508	Tax_Id=9606 Gene_Symbol=ACTN1 Alpha-actinin-1	298	103563	11	10.7
95	IPI00430812	Tax_Id=9606 Gene_Symbol=CNBP Isoform 1 of Cellular nucleic acid-binding protein	298	20704	7	23.7
96	IPI00003918	Tax_Id=9606 Gene_Symbol=RPL4 60S ribosomal protein L4	298	47953	17	23
97	IPI00009362	Tax_Id=9606 Gene_Symbol=SCG2 Secretogranin-2	297	70897	20	19.8
98	IPI00012066	Tax_Id=9606 Gene_Symbol=PCBP2 poly(rC) binding protein 2 isoform b	295	38597	10	20.4
99	IPI00604590	Tax_Id=9606 Gene_Symbol=NME2 Nucleoside diphosphate kinase	290	32906	15	29.8
100	IPI00299573	Tax_Id=9606 Gene_Symbol=RPL7A 60S ribosomal protein L7a	287	30148	13	25.6
101	IPI00009104	Tax_Id=9606 Gene_Symbol=RUVBL2 RuvB-like 2	286	51296	10	22.5
102	IPI00788802	Tax_Id=9606 Gene_Symbol=TKT Transketolase variant (Fragment)	286	68547	14	15.9
103	IPI00554737	Tax_Id=9606 Gene_Symbol=PPP2R1A Serine/threonine-protein phosphatase 2A 65 kDa regulatory subunit A alpha isoform	286	66065	15	14.4
104	IPI00025329	Tax_Id=9606 Gene_Symbol=RPL19 60S ribosomal protein L19	285	23565	7	17.3
105	IPI00026268	Tax_Id=9606 Gene_Symbol=GNB1 Guanine nucleotide-binding protein G(I)/G(S)/G(T) subunit beta-1	284	38151	11	19.4
106	IPI00032460	Tax_Id=9606 Gene_Symbol=LSM2 U6 snRNA-associated Sm-like protein LSM2	283	10942	4	31.6
107	IPI00219097	Tax_Id=9606 Gene_Symbol=HMGB2 High mobility group protein B2	282	24190	11	25.4
108	IPI00024145	Tax_Id=9606 Gene_Symbol=VDAC2 Voltage-dependent anion-selective channel protein 2	280	38639	16	21.6

109	IPI00007797	Tax.Id=9606 Gene.Symbol=FABP5;FABP5L7 Fatty acid-binding protein, epidermal	279	15497	10	29.6
110	IPI00014177	Tax.Id=9606 Gene.Symbol=SEPT2 Septin-2	273	41689	7	19.4
111	IPI00021924	Tax.Id=9606 Gene.Symbol=H1FX Histone H1x	271	22474	9	21.6
112	IPI00013881	Tax.Id=9606 Gene.Symbol=HNRNPH1 Heterogeneous nuclear ribonucleoprotein H	270	49484	13	18.3
113	IPI00031522	Tax.Id=9606 Gene.Symbol=HADHA Trifunctional enzyme subunit alpha, mitochondrial	267	83688	15	16.3
114	IPI00023748	Tax.Id=9606 Gene.Symbol=NACA Nascent polypeptide-associated complex subunit alpha	266	23370	10	26.5
115	IPI00009865	Tax.Id=9606 Gene.Symbol=KRT10 Keratin, type I cytoskeletal 10	262	59703	12	24.3
116	IPI00006482	Tax.Id=9606 Gene.Symbol=ATP1A1 Isoform Long of Sodium/potassium-transporting ATPase subunit alpha-1	261	114135	9	7.3
117	IPI00328840	Tax.Id=9606 Gene.Symbol=THOC4 THO complex subunit 4	261	27541	7	16.3
118	IPI00010796	Tax.Id=9606 Gene.Symbol=P4HB Protein disulfide-isomerase	254	57480	11	20.1
119	IPI00012007	Tax.Id=9606 Gene.Symbol=AHCY Adenosylhomocysteinase	254	48255	15	28.5
120	IPI00026272	Tax.Id=9606 Gene.Symbol=HIST1H2AE;HIST1H2AB Histone H2A type 1-B	253	14127	10	30
121	IPI00219005	Tax.Id=9606 Gene.Symbol=FKBP4 FK506-binding protein 4	249	52057	15	22
122	IPI00006510	Tax.Id=9606 Gene.Symbol=TUBB1 Tubulin beta-1 chain	248	50865	21	18.2
123	IPI00010779	Tax.Id=9606 Gene.Symbol=TPM4 Isoform 1 of Tropomyosin alpha-4 chain	248	28619	11	36.3
124	IPI00000874	Tax.Id=9606 Gene.Symbol=PRDX1 Peroxiredoxin-1	246	22324	16	47.2
125	IPI00165393	Tax.Id=9606 Gene.Symbol=ANP32E Acidic leucine-rich nuclear phosphoprotein 32 family member E	246	30902	8	21.3
126	IPI00215719	Tax.Id=9606 Gene.Symbol=RPL18 60S ribosomal protein L18	245	21735	11	39.9
127	IPI00023048	Tax.Id=9606 Gene.Symbol=EEF1D Elongation factor 1-delta	245	31217	11	37.7
128	IPI00001639	Tax.Id=9606 Gene.Symbol=KPNB1 Importin subunit beta-1	245	98420	11	10.6
129	IPI00872430	Tax.Id=9606 Gene.Symbol=RPS8 25 kDa protein	244	25460	10	43.3
130	IPI00218342	Tax.Id=9606 Gene.Symbol=MTHFD1 C-1-tetrahydrofolate synthase, cytoplasmic	242	102180	16	14.1
131	IPI00022434	Tax.Id=9606 Gene.Symbol=ALB Uncharacterized protein ALB	237	73881	9	12.8
132	IPI00290770	Tax.Id=9606 Gene.Symbol=CCT3 chaperonin containing TCP1, subunit 3 isoform b	233	60994	17	28.3
133	IPI00010154	Tax.Id=9606 Gene.Symbol=GDI1 Rab GDP dissociation inhibitor alpha	233	51177	12	24.6
134	IPI00014398	Tax.Id=9606 Gene.Symbol=FHL1 Four and a half LIM domains 1 variant	231	35494	8	19.9
135	IPI00010153	Tax.Id=9606 Gene.Symbol=RPL23 60S ribosomal protein L23	231	14970	5	20
136	IPI00328319	Tax.Id=9606 Gene.Symbol=RBBP4 Histone-binding protein RBBP4	226	47911	9	13.6
137	IPI00217466	Tax.Id=9606 Gene.Symbol=HIST1H1D Histone H1.3	220	22336	12	18.6
138	IPI00015018	Tax.Id=9606 Gene.Symbol=PPA1 Inorganic pyrophosphatase	219	33095	6	24.9
139	IPI00140420	Tax.Id=9606 Gene.Symbol=SND1 Staphylococcal nuclease domain-containing protein 1	219	102618	12	13.7

140	IPI00844578	Tax.Id=9606 Gene.Symbol=DHX9 ATP-dependent RNA heli- case A	217	142181	9	6.9
141	IPI00008529	Tax.Id=9606 Gene.Symbol=RPLP2 60S acidic ribosomal protein P2	216	11658	11	85.2
142	IPI00027442	Tax.Id=9606 Gene.Symbol=AARS Alanyl-tRNA synthetase, cy- toplasmic	216	107484	11	8.4
143	IPI00027626	Tax.Id=9606 Gene.Symbol=CCT6A T-complex protein 1 subunit zeta	215	58444	10	15.4
144	IPI00871535	Tax.Id=9606 Gene.Symbol=SPTAN1 Isoform 2 of Spectrin alpha chain, brain	213	285717	10	3.9
145	IPI00425405	Tax.Id=9606 Gene.Symbol=KIF21A Isoform 2 of Kinesin-like protein KIF21A	212	186706	9	4.6
146	IPI00018522	Tax.Id=9606 Gene.Symbol=PRMT1 HMT1 hnRNP methyltransferase-like 2 isoform 1	212	43061	8	17.3
147	IPI00293276	Tax.Id=9606 Gene.Symbol=MIF;LOC284889 Macrophage mi- gration inhibitory factor	209	12639	9	35.7
148	IPI00031461	Tax.Id=9606 Gene.Symbol=GDI2 Rab GDP dissociation in- hibitor beta	207	51087	9	18
149	IPI00031812	Tax.Id=9606 Gene.Symbol=YBX1 Nuclease-sensitive element- binding protein 1	207	35903	13	17.9
150	IPI00021290	Tax.Id=9606 Gene.Symbol=ACLY ATP-citrate synthase	207	121674	15	9.6
151	IPI00002214	Tax.Id=9606 Gene.Symbol=LOC728860;KPNA2 Importin sub- unit alpha-2	206	58168	5	12.9
152	IPI00027230	Tax.Id=9606 Gene.Symbol=HSP90B1 Endoplasmic	206	92696	13	11.1
153	IPI00020599	Tax.Id=9606 Gene.Symbol=CALR Calreticulin	206	48283	9	16.1
154	IPI00024933	Tax.Id=9606 Gene.Symbol=RPL12 Isoform 1 of 60S ribosomal protein L12	204	17979	7	45.5
155	IPI00449049	Tax.Id=9606 Gene.Symbol=PARP1 Poly [ADP-ribose] poly- merase 1	203	113811	17	13
156	IPI00008274	Tax.Id=9606 Gene.Symbol=CAP1 Adenylyl cyclase-associated protein 1	203	52222	9	14.3
157	IPI00012048	Tax.Id=9606 Gene.Symbol=NME1;NME2 Nucleoside diphos- phate kinase A	202	17309	13	47.4
158	IPI00006052	Tax.Id=9606 Gene.Symbol=PFDN2 Prefoldin subunit 2	201	16695	7	43.5
159	IPI00004902	Tax.Id=9606 Gene.Symbol=ETFB Isoform 1 of Electron transfer flavoprotein subunit beta	200	28054	4	6.7
160	IPI00020021	Tax.Id=9606 Gene.Symbol=DEK Protein DEK	200	42933	12	20
161	IPI00012442	Tax.Id=9606 Gene.Symbol=G3BP1 Ras GTPase-activating protein-binding protein 1	200	52189	10	21.9
162	IPI00383296	Tax.Id=9606 Gene.Symbol=HNRNPM Isoform 2 of Heteroge- neous nuclear ribonucleoprotein M	199	73857	15	21.6
163	IPI00306332	Tax.Id=9606 Gene.Symbol=RPL24 60S ribosomal protein L24	199	17882	5	15.9
164	IPI00873656	Tax.Id=9606 Gene.Symbol=SEPT7 Putative uncharacterized protein DKFZp586I031	196	48970	14	15.1
165	IPI00017617	Tax.Id=9606 Gene.Symbol=DDX5 Probable ATP-dependent RNA helicase DDX5	196	69618	22	26.4

166	IPI00289499	Tax.Id=9606 Gene.Symbol=ATIC Bifunctional purine biosynthesis protein PURH	196	65089	11	17.7	
167	IPI00008557	Tax.Id=9606 Gene.Symbol=IGF2BP1 Insulin-like growth factor 2 mRNA-binding protein 1	194	63759	10	14.2	
168	IPI00006663	Tax.Id=9606 Gene.Symbol=ALDH2 Aldehyde dehydrogenase, mitochondrial	194	56859	8	13.3	
169	IPI00217030	Tax.Id=9606 Gene.Symbol=RPS4X 40S ribosomal protein S4, X isoform	193	29807	10	23.2	
170	IPI00414603	Tax.Id=9606 Gene.Symbol=LOC402057 similar to 40S ribosomal protein S17	192	15763	4	38.5	
171	IPI00893541	Tax.Id=9606 Gene.Symbol=PDIA3 14 kDa protein	192	13739	8	29.3	
172	IPI00171438	Tax.Id=9606 Gene.Symbol=MUTED;TXNDC5 Thioredoxin domain-containing protein 5	192	48283	6	8.1	
173	IPI00020984	Tax.Id=9606 Gene.Symbol=CANX Calnexin	190	67982	10	12	
174	IPI00334587	Tax.Id=9606 Gene.Symbol=HNRNPAB Isoform 2 of Heterogeneous nuclear ribonucleoprotein A/B	190	36059	9	14.8	
175	IPI00220362	Tax.Id=9606 Gene.Symbol=HSPE1 10 kDa heat shock protein, mitochondrial	189	10925	8	45.1	
176	IPI00013164	Tax.Id=9606 Gene.Symbol=PRPH Isoform 1 of Peripherin	189	53732	15	19.4	
177	IPI00845507	Tax.Id=9606 Gene.Symbol=LOC641293 Similar to 60S ribosomal protein L21	188	18590	10	28.8	
178	IPI00216171	Tax.Id=9606 Gene.Symbol=ENO2 Gamma-enolase	186	47581	8	12.9	
179	IPI00029623	Tax.Id=9606 Gene.Symbol=PSMA6 Proteasome subunit alpha type-6	183	27838	7	19.9	
180	IPI00296337	Tax.Id=9606 Gene.Symbol=PRKDC Isoform 1 of DNA-dependent protein kinase catalytic subunit	182	473749	32	7	
181	IPI00001734	Tax.Id=9606 Gene.Symbol=PSAT1 Isoform 1 of Phosphoserine aminotransferase	180	40796	9	24.9	
182	IPI00413344	Tax.Id=9606 Gene.Symbol=CFL2 Cofilin-2	176	18839	5	26.5	
183	IPI00014808	Tax.Id=9606 Gene.Symbol=PAFAH1B3 Platelet-activating factor acetylhydrolase IB subunit gamma	176	25832	3	13	
184	IPI00014424	Tax.Id=9606 Gene.Symbol=EEF1A2 Elongation factor 1-alpha 2	175	50780	17	24.4	
185	IPI00216153	Tax.Id=9606 Gene.Symbol=RPS15 40S ribosomal protein S15	174	17029	6	21.4	
186	IPI00017596	Tax.Id=9606 Gene.Symbol=MAPRE1 Microtubule-associated protein RP/EB family member 1	174	30151	4	13.8	
187	IPI00022462	Tax.Id=9606 Gene.Symbol=TFRC Transferrin receptor protein 1	173	85274	9	9.6	
188	IPI00001960	Tax.Id=9606 Gene.Symbol=CLIC4 Chloride intracellular channel protein 4	172	28982	6	17	
189	IPI00015911	Tax.Id=9606 Gene.Symbol=DLD Dihydrolipoyl dehydrogenase, mitochondrial	172	54686	7	13	
190	IPI00395865	Tax.Id=9606 Gene.Symbol=RBBP7 Histone-binding protein RBBP7	172	48132	6	11.1	
191	IPI00013917	Tax.Id=9606 Gene.Symbol=RPS12 40S ribosomal protein S12	171	14859	3	16.7	
192	IPI00453473	Tax.Id=9606 Gene.Symbol=HIST2H4B;HIST1H4F;HIST1H4J;HIST1H4K Histone H4	170	11360	14	52.4	H4H;HIST
193	IPI00744692	Tax.Id=9606 Gene.Symbol=TALDO1 Transaldolase	169	37688	7	16	

194	IPI00848226	Tax_Id=9606 Gene_Symbol=GNB2L1 Guanine nucleotide-binding protein subunit beta-2-like 1	168	35511	11	26.2
195	IPI00015897	Tax_Id=9606 Gene_Symbol=CHORDC1 Isoform 1 of Cysteine and histidine-rich domain-containing protein 1	168	38264	7	14.8
196	IPI00218236	Tax_Id=9606 Gene_Symbol=PPP1CB Serine/threonine-protein phosphatase PP1-beta catalytic subunit	168	37961	8	18
197	IPI00011253	Tax_Id=9606 Gene_Symbol=RPS3 40S ribosomal protein S3	167	26842	9	32.5
198	IPI00026496	Tax_Id=9606 Gene_Symbol=NPM3 Nucleoplasmin-3	166	19617	5	14.6
199	IPI00027834	Tax_Id=9606 Gene_Symbol=HNRNPL heterogeneous nuclear ribonucleoprotein L isoform a	166	64720	10	10
200	IPI00005537	Tax_Id=9606 Gene_Symbol=MRPL12 39S ribosomal protein L12, mitochondrial	163	21563	6	28.8
201	IPI00815732	Tax_Id=9606 Gene_Symbol=PAICS phosphoribosylaminoimidazole carboxylase, phosphoribosylaminoimidazole succinocarboxamide synthetase isoform 1	163	48669	11	19
202	IPI00894416	Tax_Id=9606 Gene_Symbol=BZW2 47 kDa protein	163	47112	7	12
203	IPI00006034	Tax_Id=9606 Gene_Symbol=CRIP2 Cysteine-rich protein 2	162	23276	2	23.1
204	IPI00023860	Tax_Id=9606 Gene_Symbol=NAP1L1 Nucleosome assembly protein 1-like 1	161	45631	5	9
205	IPI00024915	Tax_Id=9606 Gene_Symbol=PRDX5 Isoform Mitochondrial of Peroxiredoxin-5, mitochondrial	160	22298	5	29.4
206	IPI00001539	Tax_Id=9606 Gene_Symbol=ACAA2 3-ketoacyl-CoA thiolase, mitochondrial	160	42354	7	7.1
207	IPI00219678	Tax_Id=9606 Gene_Symbol=EIF2S1 Eukaryotic translation initiation factor 2 subunit 1	160	36374	5	12.7
208	IPI00304596	Tax_Id=9606 Gene_Symbol=NONO Non-POU domain-containing octamer-binding protein	160	54311	16	22.1
209	IPI00025091	Tax_Id=9606 Gene_Symbol=RPS11 40S ribosomal protein S11	157	18590	7	34.8
210	IPI00220301	Tax_Id=9606 Gene_Symbol=PRDX6 Peroxiredoxin-6	157	25133	10	39.3
211	IPI00412977	Tax_Id=9606 Gene_Symbol=- Prothymosin alpha	156	11952	7	22.9
212	IPI00396378	Tax_Id=9606 Gene_Symbol=HNRNPA2B1 Isoform B1 of Heterogeneous nuclear ribonucleoproteins A2/B1	155	37464	8	21.5
213	IPI00220528	Tax_Id=9606 Gene_Symbol=SNRPF Small nuclear ribonucleoprotein F	155	9776	5	44.2
214	IPI00024920	Tax_Id=9606 Gene_Symbol=ATP5D ATP synthase subunit delta, mitochondrial	154	17479	4	13.7
215	IPI00018465	Tax_Id=9606 Gene_Symbol=CCT7 T-complex protein 1 subunit eta	154	59842	12	20.1
216	IPI00335168	Tax_Id=9606 Gene_Symbol=MYL6;MYL6B Isoform Non-muscle of Myosin light polypeptide 6	149	17090	10	40.4
217	IPI00021187	Tax_Id=9606 Gene_Symbol=RUVBL1 Isoform 1 of RuvB-like 1	149	50538	11	20.4
218	IPI00018206	Tax_Id=9606 Gene_Symbol=GOT2 Aspartate aminotransferase, mitochondrial	148	47844	7	14
219	IPI00217507	Tax_Id=9606 Gene_Symbol=NEFM Neurofilament medium polypeptide	148	102444	15	10.9

220	IPI00456925	Tax.Id=9606 Gene.Symbol=DBNL Isoform 1 of Drebrin-like protein	146	48463	8	16.3
221	IPI00298547	Tax.Id=9606 Gene.Symbol=PARK7 Protein DJ-1	146	20050	8	30.2
222	IPI00619951	Tax.Id=9606 Gene.Symbol=TPD52 tumor protein D52 isoform 2	145	22464	3	6.8
223	IPI00014439	Tax.Id=9606 Gene.Symbol=QDPR Dihydropteridine reductase	145	26001	3	11.9
224	IPI00014230	Tax.Id=9606 Gene.Symbol=C1QBP Complement component 1 Q subcomponent-binding protein, mitochondrial	145	31742	7	10.3
225	IPI00216230	Tax.Id=9606 Gene.Symbol=TMPO Lamina-associated polypeptide 2 isoform alpha	144	76016	10	13.4
226	IPI00550021	Tax.Id=9606 Gene.Symbol=RPL3 60S ribosomal protein L3	143	46365	8	17.9
227	IPI00029631	Tax.Id=9606 Gene.Symbol=ERH Enhancer of rudimentary homolog	143	12422	5	26.9
228	IPI00016342	Tax.Id=9606 Gene.Symbol=RAB7A Ras-related protein Rab-7a	143	23760	10	29.5
229	IPI00017297	Tax.Id=9606 Gene.Symbol=MATR3 Matrin-3	142	95078	7	8.1
230	IPI00216057	Tax.Id=9606 Gene.Symbol=SORD Sorbitol dehydrogenase	142	38899	9	19.3
231	IPI00008530	Tax.Id=9606 Gene.Symbol=RPLP0 60S acidic ribosomal protein P0	141	34423	8	23
232	IPI00018140	Tax.Id=9606 Gene.Symbol=SYNCRIP Isoform 1 of Heterogeneous nuclear ribonucleoprotein Q	140	69788	11	13.5
233	IPI00012772	Tax.Id=9606 Gene.Symbol=RPL8 60S ribosomal protein L8	139	28235	4	13.2
234	IPI00375441	Tax.Id=9606 Gene.Symbol=FUBP1 Isoform 1 of Far upstream element-binding protein 1	137	67690	13	16.1
235	IPI00010157	Tax.Id=9606 Gene.Symbol=MAT2A S-adenosylmethionine synthetase isoform type-2	137	43975	5	9.4
236	IPI00015102	Tax.Id=9606 Gene.Symbol=ALCAM Isoform 1 of CD166 antigen	137	65745	9	12
237	IPI00024919	Tax.Id=9606 Gene.Symbol=PRDX3 Thioredoxin-dependent peroxide reductase, mitochondrial	136	28017	6	16
238	IPI00003881	Tax.Id=9606 Gene.Symbol=HNRNPF Heterogeneous nuclear ribonucleoprotein F	135	45985	6	10.1
239	IPI00023785	Tax.Id=9606 Gene.Symbol=DDX17 DEAD box polypeptide 17 isoform 1	135	80906	14	13.4
240	IPI00021435	Tax.Id=9606 Gene.Symbol=PSMC2 26S protease regulatory subunit 7	135	49002	3	6
241	IPI00028888	Tax.Id=9606 Gene.Symbol=HNRNPD Isoform 1 of Heterogeneous nuclear ribonucleoprotein D0	133	38581	8	11.8
242	IPI00009032	Tax.Id=9606 Gene.Symbol=SSB Lupus La protein	133	46979	10	13
243	IPI00072377	Tax.Id=9606 Gene.Symbol=SET Isoform 1 of Protein SET	132	33469	4	12.8
244	IPI00069058	Tax.Id=9606 Gene.Symbol=VGF VGF nerve growth factor inducible precursor	132	67275	4	9.6
245	IPI00179964	Tax.Id=9606 Gene.Symbol=PTBP1 Isoform 1 of Polypyrimidine tract-binding protein 1	132	57357	10	13.9
246	IPI00005589	Tax.Id=9606 Gene.Symbol=hCG_18290 Uncharacterized protein ENSP00000275524	132	15855	6	34.1
247	IPI00027423	Tax.Id=9606 Gene.Symbol=PPP1CA protein phosphatase 1, catalytic subunit, alpha isoform 3	131	39405	4	12

248	IPI00220493	Tax_Id=9606 Gene_Symbol=LSM5 U6 snRNA-associated Sm-like protein LSM5	130	9988	2	20.9
249	IPI00293434	Tax_Id=9606 Gene_Symbol=SRP14 Signal recognition particle 14 kDa protein	128	14675	3	19.9
250	IPI00010896	Tax_Id=9606 Gene_Symbol=CLIC1 Chloride intracellular channel protein 1	128	27248	4	17.4
251	IPI00008433	Tax_Id=9606 Gene_Symbol=RPS5 40S ribosomal protein S5	128	23033	3	13.7
252	IPI00453476	Tax_Id=9606 Gene_Symbol=- Uncharacterized protein ENSP00000348237	128	29003	4	8.3
253	IPI00013894	Tax_Id=9606 Gene_Symbol=STIP1 Stress-induced-phosphoprotein 1	125	63227	11	11.8
254	IPI00178440	Tax_Id=9606 Gene_Symbol=EEF1B2 Elongation factor 1-beta	125	24919	3	12.4
255	IPI00216298	Tax_Id=9606 Gene_Symbol=TXN Thioredoxin	124	12015	3	22.9
256	IPI00294536	Tax_Id=9606 Gene_Symbol=STRAP Serine-threonine kinase receptor-associated protein	124	38756	3	5.1
257	IPI00027350	Tax_Id=9606 Gene_Symbol=PRDX2 Peroxiredoxin-2	122	22049	8	30.3
258	IPI00017763	Tax_Id=9606 Gene_Symbol=NAP1L4 Nucleosome assembly protein 1-like 4	122	42968	5	14.1
259	IPI00029737	Tax_Id=9606 Gene_Symbol=ACSL4 Isoform Long of Long-chain-fatty-acid-CoA ligase 4	122	80220	3	4.4
260	IPI00015947	Tax_Id=9606 Gene_Symbol=DNAJB1 DnaJ homolog subfamily B member 1	121	38191	7	18.8
261	IPI00029628	Tax_Id=9606 Gene_Symbol=RCN2 Reticulocalbin-2	120	36911	3	9.8
262	IPI00217236	Tax_Id=9606 Gene_Symbol=TBCA Tubulin-specific chaperone A	120	12904	4	19.4
263	IPI00411706	Tax_Id=9606 Gene_Symbol=ESD S-formylglutathione hydrolase	120	31956	5	13.8
264	IPI00237671	Tax_Id=9606 Gene_Symbol=NEFL Neurofilament light polypeptide	120	61536	10	14.5
265	IPI00644055	Tax_Id=9606 Gene_Symbol=HNRNPR heterogeneous nuclear ribonucleoprotein R isoform 1	119	71555	16	17.4
266	IPI00011229	Tax_Id=9606 Gene_Symbol=CTSD Cathepsin D	119	45037	4	9
267	IPI00411680	Tax_Id=9606 Gene_Symbol=PCMT1 Isoform 1 of Protein-L-isoaspartate(D-aspartate) O-methyltransferase	118	24806	11	28.6
268	IPI00107555	Tax_Id=9606 Gene_Symbol=PFN2 Isoform IIb of Profilin-2	118	15421	3	20
269	IPI00220327	Tax_Id=9606 Gene_Symbol=KRT1 Keratin, type II cytoskeletal 1	118	66149	12	19.4
270	IPI00177817	Tax_Id=9606 Gene_Symbol=ATP2A2 Isoform SERCA2A of Sarcolemmal/endoplasmic reticulum calcium ATPase 2	117	111103	14	15.1
271	IPI00641829	Tax_Id=9606 Gene_Symbol=BAT1 Isoform 2 of Spliceosome RNA helicase BAT1	117	51103	6	7.2
272	IPI00005978	Tax_Id=9606 Gene_Symbol=SFRS2 Splicing factor, arginine/serine-rich 2	115	25461	5	19
273	IPI00179953	Tax_Id=9606 Gene_Symbol=NASP Isoform 1 of Nuclear autoantigenic sperm protein	115	85471	8	5.3
274	IPI00037283	Tax_Id=9606 Gene_Symbol=DNM1L Isoform 5 of Dynamin-1-like protein	115	79573	3	3.2

275	IPI00033494	Tax.Id=9606 Gene.Symbol=MRLC2 Myosin regulatory light chain	114	19824	3	16.9
276	IPI00021338	Tax.Id=9606 Gene.Symbol=DLAT Dihydrolipoyllysine-residue acetyltransferase component of pyruvate dehydrogenase complex, mitochondrial	112	66195	4	6.8
277	IPI00029750	Tax.Id=9606 Gene.Symbol=RPS24 Isoform 1 of 40S ribosomal protein S24	111	15413	5	28.6
278	IPI00013296	Tax.Id=9606 Gene.Symbol=RPS18;LOC100130553 40S ribosomal protein S18	111	17708	10	38.8
279	IPI00221178	Tax.Id=9606 Gene.Symbol=TPD52L2 Isoform 2 of Tumor protein D54	111	19946	6	27.4
280	IPI00010204	Tax.Id=9606 Gene.Symbol=SFRS3 Splicing factor, arginine/serine-rich 3	111	19546	5	25
281	IPI00465260	Tax.Id=9606 Gene.Symbol=GARS 85 kDa protein	111	85208	8	12.7
282	IPI00022793	Tax.Id=9606 Gene.Symbol=HADHB Trifunctional enzyme subunit beta, mitochondrial	111	51547	7	10.8
283	IPI00010720	Tax.Id=9606 Gene.Symbol=CCT5 T-complex protein 1 subunit epsilon	110	60089	8	15.9
284	IPI00021926	Tax.Id=9606 Gene.Symbol=PSMC6 26S protease regulatory subunit S10B	110	44430	3	10
285	IPI00003406	Tax.Id=9606 Gene.Symbol=DBN1 Isoform 1 of Drebrin	109	71838	4	8
286	IPI00216592	Tax.Id=9606 Gene.Symbol=HNRNPC Isoform C1 of Heterogeneous nuclear ribonucleoproteins C1/C2	109	32375	13	23.9
287	IPI00007764	Tax.Id=9606 Gene.Symbol=HN1 Isoform 1 of Hematological and neurological expressed 1 protein	108	16005	5	11.7
288	IPI00005613	Tax.Id=9606 Gene.Symbol=U2AF1 Splicing factor U2AF 35 kDa subunit	108	28368	3	9.2
289	IPI00024171	Tax.Id=9606 Gene.Symbol=PHOX2A Paired mesoderm homeobox protein 2A	108	29977	3	8.5
290	IPI00419880	Tax.Id=9606 Gene.Symbol=RPS3A 40S ribosomal protein S3a	108	30154	9	28.8
291	IPI00479786	Tax.Id=9606 Gene.Symbol=KHSRP Isoform 1 of Far upstream element-binding protein 2	107	73443	10	14.1
292	IPI00260715	Tax.Id=9606 Gene.Symbol=FUS Fus-like protein (Fragment)	107	53573	6	13.4
293	IPI00024067	Tax.Id=9606 Gene.Symbol=CLTC Isoform 1 of Clathrin heavy chain 1	107	193260	7	2.8
294	IPI00179330	Tax.Id=9606 Gene.Symbol=UBC;UBB;RPS27A ubiquitin and ribosomal protein S27a precursor	106	18296	5	23.7
295	IPI00297982	Tax.Id=9606 Gene.Symbol=EIF2S3 Eukaryotic translation initiation factor 2 subunit 3	105	51647	3	7.2
296	IPI00479997	Tax.Id=9606 Gene.Symbol=STMN1 Stathmin	105	17292	12	36.9
297	IPI00002520	Tax.Id=9606 Gene.Symbol=SHMT2 Serine hydroxymethyltransferase, mitochondrial	105	56414	4	7.1
298	IPI00171199	Tax.Id=9606 Gene.Symbol=PSMA3 Isoform 2 of Proteasome subunit alpha type-3	104	27858	3	4.8
299	IPI00221222	Tax.Id=9606 Gene.Symbol=SUB1 Activated RNA polymerase II transcriptional coactivator p15	103	14386	6	33.9

300	IPI00031804	Tax.Id=9606 Gene.Symbol=VDAC3 Isoform 1 of Voltage-dependent anion-selective channel protein 3	103	30981	12	19.1
301	IPI00021728	Tax.Id=9606 Gene.Symbol=EIF2S2 Eukaryotic translation initiation factor 2 subunit 2	103	38706	4	13.8
302	IPI00646689	Tax.Id=9606 Gene.Symbol=TXNDC17 Thioredoxin domain-containing protein 17	102	14217	4	11.4
303	IPI00156689	Tax.Id=9606 Gene.Symbol=VAT1 Synaptic vesicle membrane protein VAT-1 homolog	102	42122	3	11.5
304	IPI00026185	Tax.Id=9606 Gene.Symbol=CAPZB Isoform 1 of F-actin-capping protein subunit beta	102	31616	8	18.4
305	IPI00010740	Tax.Id=9606 Gene.Symbol=SFPQ Isoform Long of Splicing factor, proline- and glutamine-rich	102	76216	8	9.9
306	IPI00032826	Tax.Id=9606 Gene.Symbol=ST13 Hsc70-interacting protein	102	41477	6	13.6
307	IPI00009328	Tax.Id=9606 Gene.Symbol=EIF4A3 Eukaryotic initiation factor 4A-III	101	47126	8	14.4
308	IPI00646304	Tax.Id=9606 Gene.Symbol=PPIB peptidylprolyl isomerase B precursor	100	23785	6	18.5
309	IPI00012535	Tax.Id=9606 Gene.Symbol=DNAJA1 DnaJ homolog subfamily A member 1	100	45581	2	6
310	IPI00017855	Tax.Id=9606 Gene.Symbol=ACO2 Aconitate hydratase, mitochondrial	100	86113	5	6
311	IPI00024157	Tax.Id=9606 Gene.Symbol=FKBP3 FK506-binding protein 3	100	25218	6	17
312	IPI00219718	Tax.Id=9606 Gene.Symbol=RBP1 Retinol-binding protein I, cellular	99	22524	2	6.1
313	IPI00376798	Tax.Id=9606 Gene.Symbol=RPL11 Isoform 1 of 60S ribosomal protein L11	98	20468	5	20.2
314	IPI00465361	Tax.Id=9606 Gene.Symbol=RPL13 60S ribosomal protein L13	97	24304	9	32.7
315	IPI00010415	Tax.Id=9606 Gene.Symbol=ACOT7 Isoform 1 of Cytosolic acyl coenzyme A thioester hydrolase	97	42454	4	12.1
316	IPI00302927	Tax.Id=9606 Gene.Symbol=CCT4 T-complex protein 1 subunit delta	96	58401	6	9.3
317	IPI00219156	Tax.Id=9606 Gene.Symbol=RPL30 60S ribosomal protein L30	96	12947	6	32.2
318	IPI00033030	Tax.Id=9606 Gene.Symbol=ADRM1 Protein ADRM1	96	42412	3	3.9
319	IPI00413986	Tax.Id=9606 Gene.Symbol=- Ribosomal protein L1	96	25020	8	24.9
320	IPI00024175	Tax.Id=9606 Gene.Symbol=PSMA7 Isoform 1 of Proteasome subunit alpha type-7	95	28041	8	19.4
321	IPI00221234	Tax.Id=9606 Gene.Symbol=ALDH7A1 aldehyde dehydrogenase 7 family, member A1	94	59020	2	2.6
322	IPI00883762	Tax.Id=9606 Gene.Symbol=ACOT7 Isoform 2 of Cytosolic acyl coenzyme A thioester hydrolase	94	27366	4	18.7
323	IPI00646425	Tax.Id=9606 Gene.Symbol=VAR5 Valyl-tRNA synthetase	94	40070	3	10.4
324	IPI00075248	Tax.Id=9606 Gene.Symbol=CALM3;CALM2;CALM1 Calmodulin	93	16827	7	29.5
325	IPI00219301	Tax.Id=9606 Gene.Symbol=MARCKS Myristoylated alanine-rich C-kinase substrate	93	31707	6	17.8

326	IPI00005198	Tax.Id=9606 Gene.Symbol=ILF2 Interleukin enhancer-binding factor 2	93	43263	3	10.3
327	IPI00304612	Tax.Id=9606 Gene.Symbol=RPL13A 60S ribosomal protein L13a	92	23619	5	15.8
328	IPI00642816	Tax.Id=9606 Gene.Symbol=SRP9;hCG_1781062 Signal recognition particle 9 kDa protein	92	10219	4	40.7
329	IPI00641579	Tax.Id=9606 Gene.Symbol=CIRBP 32 kDa protein	91	32355	5	10.1
330	IPI00011274	Tax.Id=9606 Gene.Symbol=HNRPDL Isoform 1 of Heterogeneous nuclear ribonucleoprotein D-like	91	46580	8	8.3
331	IPI00020956	Tax.Id=9606 Gene.Symbol=HDGF Hepatoma-derived growth factor	90	26886	5	18.3
332	IPI00412987	Tax.Id=9606 Gene.Symbol=GMFB GMFB protein	90	18326	5	20.8
333	IPI00026302	Tax.Id=9606 Gene.Symbol=RPL31 60S ribosomal protein L31	89	14454	3	18.4
334	IPI00395627	Tax.Id=9606 Gene.Symbol=CACYBP Isoform 1 of Calcyclin-binding protein	89	26308	6	18
335	IPI00022597	Tax.Id=9606 Gene.Symbol=UBE2M NEDD8-conjugating enzyme Ubc12	89	21172	6	15.3
336	IPI00646308	Tax.Id=9606 Gene.Symbol=FAM107B Family with sequence similarity 107, member B	89	10816	3	36.7
337	IPI00030910	Tax.Id=9606 Gene.Symbol=CAPRIN1 GPI-anchored membrane protein 1	88	72935	3	3.5
338	IPI00003870	Tax.Id=9606 Gene.Symbol=CLPP Putative ATP-dependent Clp protease proteolytic subunit, mitochondrial	88	30446	1	5.4
339	IPI00218606	Tax.Id=9606 Gene.Symbol=RPS23 40S ribosomal protein S23	88	15969	1	7.7
340	IPI00013723	Tax.Id=9606 Gene.Symbol=PIN1 Peptidyl-prolyl cis-trans isomerase NIMA-interacting 1	87	18346	1	12.3
341	IPI00789253	Tax.Id=9606 Gene.Symbol=FAM49B 33 kDa protein	87	32770	5	14.7
342	IPI00006658	Tax.Id=9606 Gene.Symbol=PIN4 protein (peptidyl-prolyl cis/trans isomerase) NIMA-interacting, 4	87	16655	2	7.7
343	IPI00418471	Tax.Id=9606 Gene.Symbol=VIM Vimentin	87	53676	8	16.7
344	IPI00001589	Tax.Id=9606 Gene.Symbol=TIMM13 Mitochondrial import inner membrane translocase subunit Tim13	86	10721	1	14.7
345	IPI00103373	Tax.Id=9606 Gene.Symbol=CYGB Cytoglobin	86	21505	4	16.3
346	IPI00873410	Tax.Id=9606 Gene.Symbol=CNN3 46 kDa protein	86	45798	8	20.5
347	IPI00298111	Tax.Id=9606 Gene.Symbol=SNX6 sorting nexin 6 isoform b	86	48116	3	11.2
348	IPI00291419	Tax.Id=9606 Gene.Symbol=ACAT2 Acetyl-CoA acetyltransferase, cytosolic	86	41838	5	8.8
349	IPI00013466	Tax.Id=9606 Gene.Symbol=ASNA1 Arsenical pump-driving ATPase	86	39224	3	8.9
350	IPI00013877	Tax.Id=9606 Gene.Symbol=HNRNPH3 Isoform 1 of Heterogeneous nuclear ribonucleoprotein H3	85	36960	6	11.3
351	IPI00026182	Tax.Id=9606 Gene.Symbol=CAPZA2 F-actin-capping protein subunit alpha-2	85	33157	2	4.9
352	IPI00386755	Tax.Id=9606 Gene.Symbol=ERO1L ERO1-like protein alpha	85	55213	3	4.7
353	IPI00013122	Tax.Id=9606 Gene.Symbol=CDC37 Hsp90 co-chaperone Cdc37	84	44953	10	15.1
354	IPI00293655	Tax.Id=9606 Gene.Symbol=DDX1 ATP-dependent RNA helicase DDX1	84	83349	6	8.4

355	IPI00217468	Tax.Id=9606 Gene.Symbol=HIST1H1B Histone H1.5	84	22566	5	8.8
356	IPI00640929	Tax.Id=9606 Gene.Symbol=RPS6 Ribosomal protein S6	83	10465	5	29.7
357	IPI00017963	Tax.Id=9606 Gene.Symbol=SNRPD2 Small nuclear ribonucleo-protein Sm D2	83	13632	4	16.9
358	IPI00107745	Tax.Id=9606 Gene.Symbol=CROP Isoform 1 of Cisplatin resistance-associated overexpressed protein	83	51834	1	3.2
359	IPI00300567	Tax.Id=9606 Gene.Symbol=DCI Isoform 1 of 3,2-trans-enoyl-CoA isomerase, mitochondrial	82	33080	2	8.3
360	IPI00216088	Tax.Id=9606 Gene.Symbol=CRABP2 Cellular retinoic acid-binding protein 2	82	15854	4	11.6
361	IPI00375446	Tax.Id=9606 Gene.Symbol=ITPA inosine triphosphatase isoform b	82	19990	3	24.3
362	IPI00030243	Tax.Id=9606 Gene.Symbol=PSME3 Isoform 1 of Proteasome activator complex subunit 3	82	29602	5	17.3
363	IPI00290460	Tax.Id=9606 Gene.Symbol=EIF3G Eukaryotic translation initiation factor 3 subunit G	82	35874	4	6.9
364	IPI00000875	Tax.Id=9606 Gene.Symbol=EEF1G Elongation factor 1-gamma	82	50429	4	9.4
365	IPI00328753	Tax.Id=9606 Gene.Symbol=KTN1 Isoform 1 of Kinectin	82	156464	10	8.1
366	IPI00299000	Tax.Id=9606 Gene.Symbol=PA2G4 Proliferation-associated protein 2G4	80	44101	6	12.4
367	IPI00646917	Tax.Id=9606 Gene.Symbol=NUDT21 Cleavage and polyadenylation specificity factor subunit 5	79	26268	1	7.5
368	IPI00017448	Tax.Id=9606 Gene.Symbol=RPS21 40S ribosomal protein S21	79	9220	4	32.5
369	IPI00292135	Tax.Id=9606 Gene.Symbol=LBR Lamin-B receptor	79	71057	4	6.3
370	IPI00026271	Tax.Id=9606 Gene.Symbol=RPS14 40S ribosomal protein S14	78	16434	3	15.9
371	IPI00019848	Tax.Id=9606 Gene.Symbol=HCFC1 Isoform 1 of Host cell factor	78	210598	11	3.5
372	IPI00215911	Tax.Id=9606 Gene.Symbol=APEX1 DNA-(apurinic or apyrimidinic site) lyase	78	35931	7	16.4
373	IPI00218667	Tax.Id=9606 Gene.Symbol=STMN2 Stathmin-2	78	20929	8	28.5
374	IPI00215884	Tax.Id=9606 Gene.Symbol=SFRS1 Isoform ASF-1 of Splicing factor, arginine/serine-rich 1	78	27842	2	4.8
375	IPI00329389	Tax.Id=9606 Gene.Symbol=RPL6 60S ribosomal protein L6	76	32765	6	17.7
376	IPI00033143	Tax.Id=9606 Gene.Symbol=EIF3K Eukaryotic translation initiation factor 3 subunit K	76	25329	2	6.4
377	IPI00008454	Tax.Id=9606 Gene.Symbol=DNAJB11 DnaJ homolog subfamily B member 11	75	40774	1	4.5
378	IPI00007001	Tax.Id=9606 Gene.Symbol=MRPL11 39S ribosomal protein L11, mitochondrial	75	20727	4	9.4
379	IPI00025318	Tax.Id=9606 Gene.Symbol=SH3BGRL SH3 domain-binding glutamic acid-rich-like protein	75	12766	2	11.4
380	IPI00016346	Tax.Id=9606 Gene.Symbol=PROSC Proline synthetase co-transcribed bacterial homolog protein	74	30610	4	10.9
381	IPI00473014	Tax.Id=9606 Gene.Symbol=DSTN Destrin	74	18950	3	15.2
382	IPI00887162	Tax.Id=9606 Gene.Symbol=LOC284393 similar to QM protein isoform 2	74	19765	4	25.1

383	IPI00643041	Tax.Id=9606 Gene.Symbol=RAN GTP-binding nuclear protein Ran	73	24579	8	27.3
384	IPI00003348	Tax.Id=9606 Gene.Symbol=GNB2 Guanine nucleotide-binding protein G(I)/G(S)/G(T) subunit beta-2	73	38048	4	13.5
385	IPI00032406	Tax.Id=9606 Gene.Symbol=DNAJA2 DnaJ homolog subfamily A member 2	73	46344	5	9.2
386	IPI00006167	Tax.Id=9606 Gene.Symbol=PPM1G Protein phosphatase 1G	73	59919	3	4.9
387	IPI00291005	Tax.Id=9606 Gene.Symbol=MDH1 Malate dehydrogenase, cyto- plasmic	73	36631	8	12.6
388	IPI00024911	Tax.Id=9606 Gene.Symbol=ERP29 Endoplasmic reticulum pro- tein ERp29	73	29032	3	9.6
389	IPI00009904	Tax.Id=9606 Gene.Symbol=PDIA4 Protein disulfide-isomerase A4	72	73229	5	6.8
390	IPI00022228	Tax.Id=9606 Gene.Symbol=HDLBP Vigilin	72	141979	8	8.3
391	IPI00299402	Tax.Id=9606 Gene.Symbol=PC Pyruvate carboxylase, mitochon- drial	72	130293	6	7.6
392	IPI00217477	Tax.Id=9606 Gene.Symbol=HMGB3 High mobility group protein B3	72	23137	4	13.5
393	IPI00029012	Tax.Id=9606 Gene.Symbol=EIF3A Eukaryotic translation initi- ation factor 3 subunit A	72	166867	3	2
394	IPI00008475	Tax.Id=9606 Gene.Symbol=HMGCS1 Hydroxymethylglutaryl- CoA synthase, cytoplasmic	72	57828	4	11.7
395	IPI00384463	Tax.Id=9606 Gene.Symbol=EIF4G1 eukaryotic translation initi- ation factor 4 gamma, 1 isoform 2	71	167227	7	4.7
396	IPI00216319	Tax.Id=9606 Gene.Symbol=YWHAH 14-3-3 protein eta	71	28372	8	24.4
397	IPI00017510	Tax.Id=9606 Gene.Symbol=MT-CO2 Cytochrome c oxidase sub- unit 2	71	25719	2	7
398	IPI00006865	Tax.Id=9606 Gene.Symbol=SEC22B Vesicle-trafficking protein SEC22b	70	24896	3	15.3
399	IPI00009943	Tax.Id=9606 Gene.Symbol=TPT1 Tumor protein, translationally-controlled 1	70	21626	5	31.4
400	IPI00019600	Tax.Id=9606 Gene.Symbol=UBE2V2 Ubiquitin-conjugating en- zyme E2 variant 2	69	16409	2	11
401	IPI00216744	Tax.Id=9606 Gene.Symbol=DCX Doublecortex	69	50386	4	9.4
402	IPI00784614	Tax.Id=9606 Gene.Symbol=SEPT9 Isoform 1 of Septin-9	69	65646	6	9
403	IPI00017964	Tax.Id=9606 Gene.Symbol=SNRPD3 Small nuclear ribonucleo- protein Sm D3	69	14021	3	23.8
404	IPI00045396	Tax.Id=9606 Gene.Symbol=CALU Isoform 2 of Calumenin	69	37225	2	4.1
405	IPI00011416	Tax.Id=9606 Gene.Symbol=ECH1 Delta(3,5)-Delta(2,4)-dienoyl- CoA isomerase, mitochondrial	69	36136	3	9.5
406	IPI00010270	Tax.Id=9606 Gene.Symbol=RAC2 Ras-related C3 botulinum toxin substrate 2	68	21814	3	10.9
407	IPI00026202	Tax.Id=9606 Gene.Symbol=RPL18A 60S ribosomal protein L18a	68	21034	4	21
408	IPI00027252	Tax.Id=9606 Gene.Symbol=PHB2 Prohibitin-2	68	33276	2	6.7
409	IPI00032147	Tax.Id=9606 Gene.Symbol=ATP6V1G2 Vacuolar proton pump subunit G 2	68	13653	6	23.7

410	IPI00030179	Tax.Id=9606 Gene.Symbol=RPL7 60S ribosomal protein L7	68	29264	7	23.4
411	IPI00374054	Tax.Id=9606 Gene.Symbol=ENAH Isoform 2 of Protein enabled homolog	67	64000	3	6
412	IPI00296053	Tax.Id=9606 Gene.Symbol=FH Isoform Mitochondrial of Fumarate hydratase, mitochondrial	67	54773	4	13.7
413	IPI00246975	Tax.Id=9606 Gene.Symbol=GSTM3 Glutathione S-transferase Mu 3	67	26998	5	14.2
414	IPI00011421	Tax.Id=9606 Gene.Symbol=MLLT11 Protein AF1q	67	10055	1	13.3
415	IPI00026216	Tax.Id=9606 Gene.Symbol=NPEPPS Puromycin-sensitive aminopeptidase	67	103895	3	3.9
416	IPI00299155	Tax.Id=9606 Gene.Symbol=PSMA4 Proteasome subunit alpha type-4	66	29750	3	9.2
417	IPI00002134	Tax.Id=9606 Gene.Symbol=PSMD5 26S proteasome non-ATPase regulatory subunit 5	66	56560	2	1.8
418	IPI00152692	Tax.Id=9606 Gene.Symbol=DTD1 D-tyrosyl-tRNA(Tyr) deacylase 1	66	23580	2	7.2
419	IPI00293126	Tax.Id=9606 Gene.Symbol=TBCB Tubulin folding cofactor B	64	27594	3	13.1
420	IPI00010810	Tax.Id=9606 Gene.Symbol=ETFA Electron transfer flavoprotein subunit alpha, mitochondrial	64	35400	6	14.1
421	IPI00002821	Tax.Id=9606 Gene.Symbol=RPL14 60S ribosomal protein L14	64	23389	5	15
422	IPI00009922	Tax.Id=9606 Gene.Symbol=C14orf156 SRA stem-loop-interacting RNA-binding protein, mitochondrial	64	12398	2	12.8
423	IPI00008527	Tax.Id=9606 Gene.Symbol=RPLP1 60S acidic ribosomal protein P1	64	11621	3	34.2
424	IPI00793442	Tax.Id=9606 Gene.Symbol=PHB Uncharacterized protein PHB	63	22894	4	15.1
425	IPI00012493	Tax.Id=9606 Gene.Symbol=RPS20 40S ribosomal protein S20	63	13478	2	9.2
426	IPI00419473	Tax.Id=9606 Gene.Symbol=BTF3 Isoform 2 of Transcription factor BTF3	63	17688	7	42
427	IPI00013415	Tax.Id=9606 Gene.Symbol=RPS7 40S ribosomal protein S7	62	22113	3	14.4
428	IPI00013949	Tax.Id=9606 Gene.Symbol=SGTA Small glutamine-rich tetratricopeptide repeat-containing protein alpha	62	34270	7	13.4
429	IPI00218847	Tax.Id=9606 Gene.Symbol=ACP1 Isoform 2 of Low molecular weight phosphotyrosine protein phosphatase	62	18422	4	12
430	IPI00008380	Tax.Id=9606 Gene.Symbol=PPP2CA Serine/threonine-protein phosphatase 2A catalytic subunit alpha isoform	62	36142	3	14.2
431	IPI00398135	Tax.Id=9606 Gene.Symbol=hCG_21078 hypothetical protein LOC389435	61	16726	3	8.8
432	IPI00026833	Tax.Id=9606 Gene.Symbol=ADSS Adenylosuccinate synthetase isozyme 2	61	50465	4	9.2
433	IPI00220281	Tax.Id=9606 Gene.Symbol=GNAO1 Isoform Alpha-1 of Guanine nucleotide-binding protein G(o) subunit alpha	61	40595	3	7.3
434	IPI00290461	Tax.Id=9606 Gene.Symbol=EIF3J Eukaryotic translation initiation factor 3 subunit J	61	29159	2	8.1
435	IPI00022431	Tax.Id=9606 Gene.Symbol=AHSG Alpha-2-HS-glycoprotein	61	40098	4	5.4
436	IPI00027146	Tax.Id=9606 Gene.Symbol=GLUD2 Glutamate dehydrogenase 2, mitochondrial	61	61738	6	7.5

437	IPI00220487	Tax.Id=9606 Gene.Symbol=ATP5H Isoform 1 of ATP synthase subunit d, mitochondrial	61	18537	4	19.3
438	IPI00217232	Tax.Id=9606 Gene.Symbol=SUCLA2 Isoform 2 of Succinyl-CoA ligase [ADP-forming] subunit beta, mitochondrial	61	48351	4	9.5
439	IPI00329801	Tax.Id=9606 Gene.Symbol=ANXA5 Annexin A5	60	35971	4	10.3
440	IPI00060715	Tax.Id=9606 Gene.Symbol=KCTD12 BTB/POZ domain-containing protein KCTD12	60	35964	4	15.4
441	IPI00010178	Tax.Id=9606 Gene.Symbol=TH Isoform 3 of Tyrosine 3-monooxygenase	60	58887	2	5.3
442	IPI00848320	Tax.Id=9606 Gene.Symbol=- Similar to Vacuolar ATP synthase subunit B, brain isoform	60	45724	3	8.9
443	IPI00465294	Tax.Id=9606 Gene.Symbol=CDC5L Cell division cycle 5-like protein	60	92422	6	8.9
444	IPI00299977	Tax.Id=9606 Gene.Symbol=PHPT1 14 kDa phosphohistidine phosphatase	59	13995	3	25.6
445	IPI00396370	Tax.Id=9606 Gene.Symbol=EIF3B Isoform 1 of Eukaryotic translation initiation factor 3 subunit B	59	92833	6	4.7
446	IPI00333215	Tax.Id=9606 Gene.Symbol=TCEA1 Isoform 1 of Transcription elongation factor A protein 1	59	34404	5	14.6
447	IPI00290462	Tax.Id=9606 Gene.Symbol=CBR3 Carbonyl reductase [NADPH] 3	59	31230	4	22.4
448	IPI00030702	Tax.Id=9606 Gene.Symbol=IDH3A Isoform 1 of Isocitrate dehydrogenase [NAD] subunit alpha, mitochondrial	59	40022	2	3.3
449	IPI00658109	Tax.Id=9606 Gene.Symbol=CKMT1B;CKMT1A;LOC100133623 Creatine kinase, ubiquitous mitochondrial	59	47406	2	2.4
450	IPI00375380	Tax.Id=9606 Gene.Symbol=PSMD13 proteasome 26S non-ATPase subunit 13 isoform 2	59	43257	4	10.8
451	IPI00220219	Tax.Id=9606 Gene.Symbol=COPB2 Coatomer subunit beta	59	103278	2	3.4
452	IPI00011937	Tax.Id=9606 Gene.Symbol=PRDX4 Peroxiredoxin-4	58	30749	3	7.7
453	IPI00023919	Tax.Id=9606 Gene.Symbol=PSMC5 26S protease regulatory subunit 8	58	45768	1	3.4
454	IPI00140827	Tax.Id=9606 Gene.Symbol=- SMT3 suppressor of mif two 3 homolog 2 isoform b precursor	58	10889	1	12.6
455	IPI00220271	Tax.Id=9606 Gene.Symbol=AKR1A1 Alcohol dehydrogenase [NADP+]	58	36892	4	10.8
456	IPI00746694	Tax.Id=9606 Gene.Symbol=C22orf32 Similar to Cullin-associated NEDD8-dissociated protein 1	58	137983	5	4.5
457	IPI00792109	Tax.Id=9606 Gene.Symbol=CCDC43 CCDC43 protein	58	25605	1	4.8
458	IPI00020194	Tax.Id=9606 Gene.Symbol=TAF15 Isoform Short of TATA-binding protein-associated factor 2N	58	61749	2	3.1
459	IPI00186712	Tax.Id=9606 Gene.Symbol=RPS26 Ribosomal protein 26 (RPS26) pseudogene	57	13278	4	20.9
460	IPI00289524	Tax.Id=9606 Gene.Symbol=AKR1C4 Aldo-keto reductase family 1 member C4	57	37470	4	7.7
461	IPI00290416	Tax.Id=9606 Gene.Symbol=OLA1 Isoform 1 of Obg-like ATPase 1	57	44943	3	6.1

462	IPI00056357	Tax_Id=9606 Gene_Symbol=C19orf10 UPF0556 protein C19orf10	57	18897	2	8.7
463	IPI00250297	Tax_Id=9606 Gene_Symbol=AASDHPPT L-aminoadipate-semialdehyde dehydrogenase-phosphopantetheinyl transferase	57	35981	2	4.9
464	IPI00395507	Tax_Id=9606 Gene_Symbol=ELAVL4 Isoform 2 of ELAV-like protein 4	57	40582	5	15
465	IPI00019812	Tax_Id=9606 Gene_Symbol=PPP5C Serine/threonine-protein phosphatase 5	56	57412	1	2.6
466	IPI00295209	Tax_Id=9606 Gene_Symbol=SNX5 Sorting nexin-5	56	47072	6	16.3
467	IPI00470438	Tax_Id=9606 Gene_Symbol=C1orf77 24 kDa protein	56	23647	4	23.3
468	IPI00215780	Tax_Id=9606 Gene_Symbol=RPS19 40S ribosomal protein S19	56	16051	4	27.6
469	IPI00013452	Tax_Id=9606 Gene_Symbol=EPRS Bifunctional aminoacyl-tRNA synthetase	55	172137	5	3.9
470	IPI00178188	Tax_Id=9606 Gene_Symbol=DYNLRB2 Dynein light chain roadblock-type 2	55	10905	2	12.5
471	IPI00018350	Tax_Id=9606 Gene_Symbol=MCM5 DNA replication licensing factor MCM5	55	83031	3	6.8
472	IPI00011604	Tax_Id=9606 Gene_Symbol=GCSH;LOC730107 Glycine cleavage system H protein, mitochondrial	55	19127	1	11.6
473	IPI00555956	Tax_Id=9606 Gene_Symbol=PSMB4 Proteasome subunit beta type-4	55	29242	4	11.4
474	IPI00019376	Tax_Id=9606 Gene_Symbol=SEPT11 Septin-11	54	49652	8	14.5
475	IPI00005162	Tax_Id=9606 Gene_Symbol=ARPC3 Actin-related protein 2/3 complex subunit 3	54	20761	1	7.3
476	IPI00013468	Tax_Id=9606 Gene_Symbol=BUB3 Mitotic checkpoint protein BUB3	54	37587	5	14.3
477	IPI00021304	Tax_Id=9606 Gene_Symbol=KRT2 Keratin, type II cytoskeletal 2 epidermal	54	66110	4	5.4
478	IPI00013485	Tax_Id=9606 Gene_Symbol=RPS2 40S ribosomal protein S2	54	31590	4	15.7
479	IPI00105598	Tax_Id=9606 Gene_Symbol=PSMD11 Proteasome 26S non-ATPase subunit 11 variant (Fragment)	54	47790	4	9
480	IPI00008223	Tax_Id=9606 Gene_Symbol=RAD23B UV excision repair protein RAD23 homolog B	54	43202	7	12.2
481	IPI00215637	Tax_Id=9606 Gene_Symbol=DDX3X ATP-dependent RNA helicase DDX3X	54	73597	9	9.8
482	IPI00018398	Tax_Id=9606 Gene_Symbol=PSMC3 26S protease regulatory subunit 6A	54	49458	7	14.4
483	IPI00470528	Tax_Id=9606 Gene_Symbol=RPL15 60S ribosomal protein L15	53	24245	2	11.3
484	IPI00383975	Tax_Id=9606 Gene_Symbol=CHGA Full-length cDNA clone CS0DN001YP04 of Adult brain of Homo sapiens (Fragment)	53	40716	3	8.2
485	IPI00220834	Tax_Id=9606 Gene_Symbol=XRCC5 ATP-dependent DNA helicase 2 subunit 2	53	83222	3	4.4
486	IPI00456969	Tax_Id=9606 Gene_Symbol=DYNC1H1 Cytoplasmic dynein 1 heavy chain 1	53	534809	13	2.8
487	IPI00306369	Tax_Id=9606 Gene_Symbol=NSUN2 tRNA (cytosine-5-)-methyltransferase NSUN2	53	87214	5	6.6
488	IPI00182533	Tax_Id=9606 Gene_Symbol=RPL28 60S ribosomal protein L28	52	15795	3	15.3

489	IPI00465044	Tax_Id=9606 Gene_Symbol=RCC2 Protein RCC2	52	56790	2	2.5
490	IPI00005981	Tax_Id=9606 Gene_Symbol=TAGLN3 Transgelin-3	52	22629	2	12.1
491	IPI00009960	Tax_Id=9606 Gene_Symbol=IMMT Isoform 1 of Mitochondrial inner membrane protein	51	84026	4	8.4
492	IPI00015029	Tax_Id=9606 Gene_Symbol=PTGES3 Prostaglandin E synthase 3	51	18971	1	8.1
493	IPI00029744	Tax_Id=9606 Gene_Symbol=SSBP1 Single-stranded DNA-binding protein, mitochondrial	51	17249	1	5.4
494	IPI00013174	Tax_Id=9606 Gene_Symbol=RBM14 Isoform 1 of RNA-binding protein 14	51	69620	4	8.5
495	IPI00022202	Tax_Id=9606 Gene_Symbol=SLC25A3 Isoform A of Phosphate carrier protein, mitochondrial	50	40525	2	3.3
496	IPI00018931	Tax_Id=9606 Gene_Symbol=VPS35 Vacuolar protein sorting-associated protein 35	50	92447	5	9.3
497	IPI00029133	Tax_Id=9606 Gene_Symbol=ATP5F1 ATP synthase subunit b, mitochondrial	50	28947	3	12.9
498	IPI00016862	Tax_Id=9606 Gene_Symbol=GSR Isoform Mitochondrial of Glutathione reductase, mitochondrial	50	56791	3	4.6
499	IPI00218693	Tax_Id=9606 Gene_Symbol=APRT Adenine phosphoribosyl-transferase	50	19766	4	17.8
500	IPI00016339	Tax_Id=9606 Gene_Symbol=RAB5C Ras-related protein Rab-5C	50	23696	4	26.4
501	IPI00015602	Tax_Id=9606 Gene_Symbol=TOMM70A Mitochondrial import receptor subunit TOM70	50	68096	5	7.4
502	IPI00216256	Tax_Id=9606 Gene_Symbol=WDR1 Isoform 2 of WD repeat-containing protein 1	50	58593	3	5.6
503	IPI00790743	Tax_Id=9606 Gene_Symbol=- Protein	49	16170	3	15.9
504	IPI00002460	Tax_Id=9606 Gene_Symbol=ANXA7 Isoform 1 of Annexin A7	49	53078	1	1.8
505	IPI00009480	Tax_Id=9606 Gene_Symbol=COPS8 COP9 signalosome complex subunit 8	49	23268	4	20.1
506	IPI00306043	Tax_Id=9606 Gene_Symbol=YTHDF2 Isoform 1 of YTH domain family protein 2	49	62467	5	6.9
507	IPI00012382	Tax_Id=9606 Gene_Symbol=SNRPA U1 small nuclear ribonucleoprotein A	49	31259	4	8.2
508	IPI00413587	Tax_Id=9606 Gene_Symbol=BID Isoform 1 of BH3-interacting domain death agonist	49	22152	3	6.7
509	IPI00295741	Tax_Id=9606 Gene_Symbol=CTSB Cathepsin B	49	38766	3	4.1
510	IPI00550746	Tax_Id=9606 Gene_Symbol=NUDC Nuclear migration protein nudC	49	38276	3	6
511	IPI00002280	Tax_Id=9606 Gene_Symbol=PCSK1N ProSAAS	49	27413	1	5.4
512	IPI00219729	Tax_Id=9606 Gene_Symbol=SLC25A11 Mitochondrial 2-oxoglutarate/malate carrier protein	48	34211	2	5.4
513	IPI00186338	Tax_Id=9606 Gene_Symbol=LOC645870 similar to barrier-to-autointegration factor	48	9905	4	40.7
514	IPI00009253	Tax_Id=9606 Gene_Symbol=NAPA Alpha-soluble NSF attachment protein	48	33667	2	7.8

515	IPI00009841	Tax.Id=9606 Gene.Symbol=EWSR1 cDNA FLJ31747 fis, clone NT2RI2007377, highly similar to RNA-BINDING PROTEIN EWS	48	69208	2	5
516	IPI00384051	Tax.Id=9606 Gene.Symbol=PSME2 Uncharacterized protein PSME2	47	28755	1	5.6
517	IPI00012795	Tax.Id=9606 Gene.Symbol=EIF3I Eukaryotic translation initiation factor 3 subunit I	47	36878	1	2.8
518	IPI00029019	Tax.Id=9606 Gene.Symbol=UBAP2L Isoform 2 of Ubiquitin-associated protein 2-like	47	105085	3	2
519	IPI00183500	Tax.Id=9606 Gene.Symbol=NCBP2 Nuclear cap-binding protein subunit 2	47	18161	2	7.1
520	IPI00012998	Tax.Id=9606 Gene.Symbol=CPSF6 Isoform 1 of Cleavage and polyadenylation specificity factor subunit 6	47	59344	2	3.8
521	IPI00013195	Tax.Id=9606 Gene.Symbol=MRPL49 39S ribosomal protein L49, mitochondrial	47	19243	2	15.1
522	IPI00073713	Tax.Id=9606 Gene.Symbol=MSI2 Isoform 1 of RNA-binding protein Musashi homolog 2	46	35345	1	4.6
523	IPI00399212	Tax.Id=9606 Gene.Symbol=LOC389842 similar to RanBP1	46	23508	4	15.4
524	IPI00029601	Tax.Id=9606 Gene.Symbol=CTTN Src substrate cortactin	46	61770	6	10.5
525	IPI00455023	Tax.Id=9606 Gene.Symbol=tcag7.1260 Putative uncharacterized protein	46	53890	2	1.7
526	IPI00011107	Tax.Id=9606 Gene.Symbol=IDH2 Isocitrate dehydrogenase [NADP], mitochondrial	46	51333	3	5.8
527	IPI00025815	Tax.Id=9606 Gene.Symbol=TARDBP TDP43	46	45305	3	5.3
528	IPI00292771	Tax.Id=9606 Gene.Symbol=NUMA1 Isoform 1 of Nuclear mitotic apparatus protein 1	46	239199	8	4.2
529	IPI00184330	Tax.Id=9606 Gene.Symbol=MCM2 DNA replication licensing factor MCM2	45	102516	5	4.1
530	IPI00219622	Tax.Id=9606 Gene.Symbol=PSMA2 Proteasome subunit alpha type-2	45	25996	3	12.4
531	IPI00220503	Tax.Id=9606 Gene.Symbol=DCTN2 dynactin 2	45	44906	6	14.3
532	IPI00396435	Tax.Id=9606 Gene.Symbol=DHX15 Putative pre-mRNA-splicing factor ATP-dependent RNA helicase DHX15	45	91673	4	5.9
533	IPI00443909	Tax.Id=9606 Gene.Symbol=CNPY2 Isoform 1 of Protein canopy homolog 2	45	20981	1	8.8
534	IPI00025019	Tax.Id=9606 Gene.Symbol=PSMB1 Proteasome subunit beta type-1	45	26700	2	8.3
535	IPI00015894	Tax.Id=9606 Gene.Symbol=CDC42EP4 Cdc42 effector protein 4	45	38014	2	3.9
536	IPI00005487	Tax.Id=9606 Gene.Symbol=RBKS Ribokinase	45	34577	1	3.7
537	IPI00000811	Tax.Id=9606 Gene.Symbol=PSMB6 Proteasome subunit beta type-6	44	25570	1	4.2
538	IPI00027463	Tax.Id=9606 Gene.Symbol=S100A6 Protein S100-A6	44	10230	3	16.7
539	IPI00017672	Tax.Id=9606 Gene.Symbol=NP CDNA FLJ25678 fis, clone TST04067, highly similar to PURINE NUCLEOSIDE PHOSPHORYLASE	44	32758	3	11.9
540	IPI00413641	Tax.Id=9606 Gene.Symbol=AKR1B1 Aldose reductase	44	36230	4	8.2

541	IPI00893179	Tax_Id=9606 Gene_Symbol=XRCC6 X-ray repair complementing defective repair in Chinese hamster cells 6	43	64263	4	7.4
542	IPI00215888	Tax_Id=9606 Gene_Symbol=SRP72 Signal recognition particle 72 kDa protein	43	75130	5	7.9
543	IPI00000581	Tax_Id=9606 Gene_Symbol=OTUB1 Putative uncharacterized protein DKFZp564E242	43	31633	2	8.8
544	IPI00759493	Tax_Id=9606 Gene_Symbol=SUCLG1 succinate-CoA ligase, GDP-forming, alpha subunit	43	36626	2	4.6
545	IPI00217683	Tax_Id=9606 Gene_Symbol=AKAP12 A-kinase anchor protein 12 isoform 2	43	182150	3	2.6
546	IPI00008418	Tax_Id=9606 Gene_Symbol=DIABLO Diablo homolog, mitochondrial precursor	43	36279	1	3.2
547	IPI00030770	Tax_Id=9606 Gene_Symbol=PSMG1 Isoform 1 of Proteasome assembly chaperone 1	42	33631	1	3.5
548	IPI00012750	Tax_Id=9606 Gene_Symbol=RPS25 40S ribosomal protein S25	41	13791	1	7.2