

Supplemental Table 1. Complete list of 3882 proteins identified from mouse retina tissue (False Discovery Rate < 1%).

N	Accession #	Protein Name	Unused Score	%coverage	Peptides(95%)
1	IPI:IPI00757353.2	Spna2 spectrin alpha chain, brain isoform 2	285.83	62.29	186
2	IPI:IPI00462072.3	Eno1;LOC100044223;Gm5506 Alpha-enolase	238.22	85.25	457
3	IPI:IPI00119876.1	Dync1h1 Cytoplasmic dynein 1 heavy chain 1	189.19	33.51	148
4	IPI:IPI00319830.7	Spnb2 Isoform 1 of Spectrin beta chain, brain 1	162.32	44.86	98
5	IPI:IPI00407130.4	Pkm2 Isoform M2 of Pyruvate kinase isozymes M1/M2	159.24	80.98	234
6	IPI:IPI00309361.6	Rbp3 Retinol-binding protein 3	152.76	62.24	159
7	IPI:IPI00169916.1 1	Cltc Clathrin heavy chain 1	152.32	48.24	173
8	IPI:IPI00136703.1	Ckb Creatine kinase B-type	134.94	87.14	238
9	IPI:IPI00874964.3	- 36 kDa protein	134.51	78.64	253
10	IPI:IPI00122048.2	Atp1a3 Sodium/potassium-transporting ATPase subunit alpha-3	134.48	59.33	175
11	IPI:IPI00229940.4	Sag S-arrestin	131.68	89.08	249
12	IPI:IPI00323357.3	Hspa8 Heat shock cognate 71 kDa protein	127.73	76.16	137
13	IPI:IPI00169463.1	Tubb2c Tubulin beta-2C chain	126.64	78.43	230
14	IPI:IPI00330804.4	Hsp90aa1 Heat shock protein HSP 90-alpha	122.42	60.85	95
15	IPI:IPI00131695.3	Alb Serum albumin	119.29	56.58	94
16	IPI:IPI00850779.1	Gm2606 similar to Glyceraldehyde-3-phosphate dehydrogenase isoform 1	119.19	79.58	187
17	IPI:IPI00828488.1	Hnrnpa2b1 Isoform 1 of Heterogeneous nuclear ribonucleoproteins A2/B1	99.54	74.22	94
18	IPI:IPI00130280.1	Atp5a1 ATP synthase subunit alpha, mitochondrial	99.52	60.04	130
19	IPI:IPI00468481.2	Atp5b ATP synthase subunit beta, mitochondrial	99.18	77.32	183
20	IPI:IPI00469114.5	Hba-a1 Hemoglobin subunit alpha	99.12	94.37	149
21	IPI:IPI00656325.2	Nsf Vesicle-fusing ATPase	98.6	60.08	69
22	IPI:IPI00227299.6	Vim Vimentin	98.29	75.54	97
23	IPI:IPI00415402.3	Stxbp1 Isoform 1 of Syntaxin-binding protein 1	96.79	66.33	88
24	IPI:IPI00108737.1	Cryaa Isoform 1 of Alpha-crystallin A chain	96.52	84.69	88
25	IPI:IPI00225275.5	Pygm Glycogen phosphorylase, muscle form	94.97	52.61	64
26	IPI:IPI00876255.1	Nsf 83 kDa protein	94.28	57.80	65
27	IPI:IPI00109729.1	Cryaa Isoform 2 of Alpha-crystallin A chain	93.04	87.28	84
28	IPI:IPI00626790.3	Glul Glutamine synthetase	92.71	80.97	143
29	IPI:IPI00555069.3	Pgk1 Phosphoglycerate kinase 1	92.5	73.86	95
30	IPI:IPI00222211.5	Crybb2 Beta-crystallin B2	92.18	87.32	99
31	IPI:IPI00110753.1	Tuba1a Tubulin alpha-1A chain	91.37	78.49	163
32	IPI:IPI00138274.1	Cryab Alpha-crystallin B chain	91.26	95.43	95
33	IPI:IPI00622235.5	Vcp Transitional endoplasmic reticulum ATPase	91.23	63.52	80

34	IPI:IPI00122971.2	Ncam1 Isoform 1 of Neural cell adhesion molecule 1	91.1	46.46	72
35	IPI:IPI00856379.1	Aldoa fructose-bisphosphate aldolase A isoform 1	90.91	79.19	96
36	IPI:IPI00110850.1	Actb Actin, cytoplasmic 1	89.27	79.47	152
37	IPI:IPI00330289.3	Epb4.1l2 band 4.1-like protein 2	87.75	55.47	66
38	IPI:IPI00123313.1	Uba1 Ubiquitin-like modifier-activating enzyme 1	87.1	48.2	88
39	IPI:IPI00117348.4	Tuba1b Tubulin alpha-1B chain	87.09	71.62	189
40	IPI:IPI00553333.2	Hbb-b1 Hemoglobin subunit beta-1	86.76	95.24	140
41	IPI:IPI00114375.2	Dpysl2 Dihydropyrimidinase-related protein 2	86.61	70.63	91
42	IPI:IPI00762858.1	Hk1 hexokinase-1 isoform HK1	86.1	46.51	59
43	IPI:IPI00116074.1	Aco2 Aconitate hydratase, mitochondrial	85.16	55.64	86
44	IPI:IPI00467833.6	Tpi1 triosephosphate isomerase	84.92	69.9	97
45	IPI:IPI00137409.3	Tkt Transketolase	84.15	58.75	92
46	IPI:IPI00465648.3	Dnm1 Isoform 3 of Dynamin-1	81.11	48.77	63
47	IPI:IPI00118899.1	Actn4 Alpha-actinin-4	80.71	51.75	49
48	IPI:IPI00139788.2	Trf Serotransferrin	80.26	52.51	52
49	IPI:IPI00760082.2	Crocc rootletin isoform 1	80.14	27.78	53
50	IPI:IPI00311654.4	Atp2a1 Sarcoplasmic/endoplasmic reticulum calcium ATPase 1	79.74	39.54	64
51	IPI:IPI00117312.1	Got2 Aspartate aminotransferase, mitochondrial	77.79	73.95	70
52	IPI:IPI00751369.1	Ldha L-lactate dehydrogenase A chain isoform 2	77.27	75.07	91
53	IPI:IPI00308885.6	Hspd1 Isoform 1 of 60 kDa heat shock protein, mitochondrial	76.89	71.90	71
54	IPI:IPI00928559.1	Hk1 Putative uncharacterized protein	75.53	43.84	46
55	IPI:IPI00228633.7	Gpi1 Glucose-6-phosphate isomerase	75.13	56.27	82
56	IPI:IPI00874482.1	Actg1 Actin, cytoplasmic 2	74.21	76.53	113
57	IPI:IPI00554989.3	Ppia Peptidyl-prolyl cis-trans isomerase	73.49	74.85	85
58	IPI:IPI00406447.3	Dpysl3 Collapsin response mediator protein 4A	72.67	69.25	94
59	IPI:IPI00331704.7	Eno2 Gamma-enolase	71.48	74.19	184
60	IPI:IPI00127596.1	Ckm Creatine kinase M-type	71.01	79.27	83
61	IPI:IPI00828309.1	Crocc rootletin isoform 2	71	25.96	40
62	IPI:IPI00466069.3	Eef2 Elongation factor 2	70.77	48.02	46
63	IPI:IPI00230108.6	Pdia3 Protein disulfide-isomerase A3	69.26	62.77	46
64	IPI:IPI00133522.1	P4hb Protein disulfide-isomerase	68.99	70.73	44
65	IPI:IPI00122815.3	P4hb Putative uncharacterized protein	66.56	71.12	47
66	IPI:IPI00129526.1	Hsp90b1 Endoplasmic	66.34	41.27	50
67	IPI:IPI00407692.3	Atp6v1a Isoform 1 of V-type proton ATPase catalytic subunit A	66.24	51.05	61
68	IPI:IPI00880647.1	Pde6a Phosphodiesterase 6A, cGMP-specific, rod, alpha	66.02	41.51	41
69	IPI:IPI00457898.3	Pgam1 Phosphoglycerate mutase 1	65.79	82.28	98
70	IPI:IPI00319992.1	Hspa5 78 kDa glucose-regulated protein	65.65	59.54	58

71	IPI:IPI00515398.1	Myh10 Myosin-10	64.7	24.65	44
72	IPI:IPI00929850.1	Pgm1;Pgm2 phosphoglucomutase-1	64.65	68.86	40
73	IPI:IPI00115679.1	Ganab Isoform 2 of Neutral alpha-glucosidase AB	64.34	38.51	46
74	IPI:IPI00762047.1	Acly ATP-citrate synthase	64.12	38.96	41
75	IPI:IPI00115564.5	Slc25a4 ADP/ATP translocase 1	63.93	67.79	49
76	IPI:IPI00230394.5	Lmnb1 Lamin-B1	63.66	54.93	54
77	IPI:IPI00896700.1	Mtap1b microtubule-associated protein 1B	63.25	24.55	47
78	IPI:IPI00113223.2	Fasn Fatty acid synthase	62.85	23.08	42
79	IPI:IPI00137730.7	Pebp1 Phosphatidylethanolamine-binding protein 1	62.22	94.12	86
80	IPI:IPI00120716.3	Gnb1 Guanine nucleotide-binding protein G(I)/G(S)/G(T) subunit beta-1	61.35	75.29	67
81	IPI:IPI00378436.1	Crygb Putative uncharacterized protein	60.48	78.29	91
82	IPI:IPI00126248.3	Acly Putative uncharacterized protein	60.07	34.51	33
83	IPI:IPI00224575.1	Hnrnpk Isoform 2 of Heterogeneous nuclear ribonucleoprotein K	58.97	67.24	49
84	IPI:IPI00323592.2	Mdh2 Malate dehydrogenase, mitochondrial	58.49	67.75	58
85	IPI:IPI00387312.2	Pfkl 6-phosphofructokinase, liver type	58.04	37.82	37
86	IPI:IPI00119113.3	Atp6v1b2 V-type proton ATPase subunit B, brain isoform	57.45	71.43	56
87	IPI:IPI00626237.2	Ogdh Isoform 1 of 2-oxoglutarate dehydrogenase, mitochondrial	57.33	38.81	34
88	IPI:IPI00339468.4	Dhx9 Isoform 2 of ATP-dependent RNA helicase A	57.01	26.16	42
89	IPI:IPI00119618.1	Canx Calnexin	56.73	52.79	41
90	IPI:IPI00453826.2	Matr3 Matrin-3	56.08	34.75	40
91	IPI:IPI00323179.3	Gdi1 Rab GDP dissociation inhibitor alpha	55.87	63.09	39
92	IPI:IPI00553798.2	Ahnak AHNAK nucleoprotein isoform 1	55.64	31.9	43
93	IPI:IPI00311682.5	Atp1a1 Sodium/potassium-transporting ATPase subunit alpha-1	55.47	44.67	96
94	IPI:IPI00653307.1	Ddx17 probable ATP-dependent RNA helicase DDX17 isoform 1	55.41	36.35	34
95	IPI:IPI00230204.7	Got1 Aspartate aminotransferase, cytoplasmic	55.19	75.06	64
96	IPI:IPI00554941.2	Crygb Gamma-crystallin B	55.03	78.29	90
97	IPI:IPI00123639.1	Calr Calreticulin	54.08	74.28	42
98	IPI:IPI00230351.1	Sdha Succinate dehydrogenase [ubiquinone] flavoprotein subunit, mitochondrial	54.04	52.41	34
99	IPI:IPI00877254.1	Slc12a5 Isoform 1 of Solute carrier family 12 member 5	53.8	28.65	34
100	IPI:IPI00317710.1	Hspa4l Isoform 1 of Heat shock 70 kDa protein 4L	53.26	39.98	34
101	IPI:IPI00462934.2	Khsrp Far upstream element-binding protein 2	52.7	48.93	41
102	IPI:IPI00121514.3	Stip1 Stress-induced-phosphoprotein 1	52.49	42.17	31
103	IPI:IPI00230427.5	Mif Macrophage migration inhibitory factor	52.25	74.78	53
104	IPI:IPI00122565.1	Gdi2 Isoform 1 of Rab GDP dissociation inhibitor beta	51.92	56.18	37

105	IPI:IPI00308162.3	Slc25a12 Calcium-binding mitochondrial carrier protein Aralar1	50.96	51.4	32
106	IPI:IPI00420882.3	Ogdh Isoform 4 of 2-oxoglutarate dehydrogenase, mitochondrial	50.79	29.21	28
107	IPI:IPI00123390.8	Acsf6 Isoform 2 of Long-chain-fatty-acid--CoA ligase 6	50.67	38.64	29
108	IPI:IPI00317794.5	Ncl Nucleolin	50.51	30.27	31
109	IPI:IPI00130000.2	Npepps Puromycin-sensitive aminopeptidase	50.4	39.78	31
110	IPI:IPI00119689.1	Ap2b1 Isoform 1 of AP-2 complex subunit beta	50.25	31.91	31
111	IPI:IPI00122549.1	Vdac1 Isoform PI-VDAC1 of Voltage-dependent anion-selective channel protein 1	50.24	77.36	42
112	IPI:IPI00817004.1	Hnrnpa1 Isoform Long of Heterogeneous nuclear ribonucleoprotein A1	49.99	60.94	58
113	IPI:IPI00880839.1	Hspa9 stress-70 protein, mitochondrial	49.49	40.65	33
114	IPI:IPI00111218.1	Aldh2 Aldehyde dehydrogenase, mitochondrial	49.41	56.07	31
115	IPI:IPI00407499.1	Abat Isoform 1 of 4-aminobutyrate aminotransferase, mitochondrial	49.35	58.8	38
116	IPI:IPI00875275.1	Abca8a ATP-binding cassette, sub-family A (ABC1), member 8a	49.3	22.35	37
117	IPI:IPI00126051.7	Crybb1 Beta-crystallin B1	49.19	90.0	59
118	IPI:IPI00226080.5	Rlbp1 Retinaldehyde-binding protein 1	49.02	72.56	60
119	IPI:IPI00224456.2	Srl Isoform 1 of Sarcalumenin	48.97	30.44	30
120	IPI:IPI00119138.1	Uqcrc2 Cytochrome b-c1 complex subunit 2, mitochondrial	48.89	57.62	40
121	IPI:IPI00269661.1	Hnrnpa3 Isoform 1 of Heterogeneous nuclear ribonucleoprotein A3	48.88	47.76	50
122	IPI:IPI00845652.1	Ogdh Isoform 3 of 2-oxoglutarate dehydrogenase, mitochondrial	48.54	31.79	29
123	IPI:IPI00330646.4	Gnat1 Guanine nucleotide-binding protein G(t) subunit alpha-1	48.35	58.29	69
124	IPI:IPI00320217.9	Cct2 T-complex protein 1 subunit beta	48.26	59.07	31
125	IPI:IPI00331556.5	Hspa4 Heat shock 70 kDa protein 4	48.25	37.46	32
126	IPI:IPI00336324.1	Mdh1 Malate dehydrogenase, cytoplasmic	48.01	53.59	41
127	IPI:IPI00465769.3	Slc12a5 Isoform 2 of Solute carrier family 12 member 5	47.93	26.01	30
128	IPI:IPI00310091.8	Ppp2r1a Serine/threonine-protein phosphatase 2A 65 kDa regulatory subunit A alpha isoform	47.63	49.24	32
129	IPI:IPI00890005.1	Hnrnpk Isoform 3 of Heterogeneous nuclear ribonucleoprotein K	47.62	58.31	44
130	IPI:IPI00265406.3	Pfas Phosphoribosylformylglycinamide synthase	47.46	32.76	28
131	IPI:IPI00420363.2	Ddx5 Probable ATP-dependent RNA helicase DDX5	47.28	44.63	39
132	IPI:IPI00116498.1	Ywhaz 14-3-3 protein zeta/delta	47.2	83.67	61
133	IPI:IPI00649253.1	Pgm1;Pgm2 Phosphoglucomutase 2	47.2	49.66	25

134	IPI:IPI00307837.6	Eef1a1 Elongation factor 1-alpha 1	47.12	56.49	41
135	IPI:IPI00556827.1	Atp2b1 plasma membrane calcium ATPase 1	47.1	26.56	31
136	IPI:IPI00554894.2	Anxa6 Annexin A6	47.01	42.05	26
137	IPI:IPI00895996.1	Dpysl4 dihydropyrimidinase-related protein 4	46.95	69.41	40
138	IPI:IPI00653598.2	Uqcrc1 cytochrome b-c1 complex subunit 1, mitochondrial precursor	46.88	53.96	44
139	IPI:IPI00119458.7	Aldoc Fructose-bisphosphate aldolase C	46.87	83.47	68
140	IPI:IPI00458583.3	Hnrnpu Heterogeneous nuclear ribonucleoprotein U	46.75	31.25	33
141	IPI:IPI00132595.4	Abca4 Retinal-specific ATP-binding cassette transporter	46.6	16.88	31
142	IPI:IPI00130922.3	Crygs Beta-crystallin S	46.55	73.60	57
143	IPI:IPI00116283.1	Cct3 T-complex protein 1 subunit gamma	46.39	49.54	31
144	IPI:IPI00480357.6	Hnrnmp Isoform 2 of Heterogeneous nuclear ribonucleoprotein M	46.34	43.62	35
145	IPI:IPI00128441.3	Hnrnpr Putative uncharacterized protein	45.61	34.18	28
146	IPI:IPI00555059.2	Prdx6 Peroxiredoxin-6	45.57	81.25	51
147	IPI:IPI00896727.1	Cand1 Cullin-associated NEDD8-dissociated protein 1	45.26	30.73	39
148	IPI:IPI00229796.3	Pygb Glycogen phosphorylase, brain form	45.14	39.62	41
149	IPI:IPI00132443.3	Hnrnmp Isoform 1 of Heterogeneous nuclear ribonucleoprotein M	44.91	39.78	36
150	IPI:IPI00123181.4	Myh9 Myosin-9	44.23	22.35	33
151	IPI:IPI00228150.1	Immt Isoform 1 of Mitochondrial inner membrane protein	44.17	42.8	33
152	IPI:IPI00653643.3	Hnrnpl Putative uncharacterized protein	43.87	44.43	39
153	IPI:IPI00134845.1	Cryba1 Crystallin, beta A1	43.69	75.35	83
154	IPI:IPI00346965.5	Ap1b1 AP-1 complex subunit beta-1	43.59	29.59	27
155	IPI:IPI00469392.2	Rtn4 Isoform 1 of Reticulon-4	43.58	38.30	35
156	IPI:IPI00875218.1	Anxa6 76 kDa protein	43.35	42.86	24
157	IPI:IPI00227849.5	Cryba2 Beta-crystallin A2	43.3	76.14	44
158	IPI:IPI00970385.1	Impdh1 61 kDa protein	43.18	48.06	30
159	IPI:IPI00129618.1	Syt1 Synaptotagmin-1	43.16	52.02	35
160	IPI:IPI00845581.1	Dpysl4 Isoform 2 of Dihydropyrimidinase-related protein 4	42.78	63.07	31
161	IPI:IPI00223092.5	Hadha Trifunctional enzyme subunit alpha, mitochondrial	42.71	40.1	32
162	IPI:IPI00222363.5	Rcvrn Recoverin	42.67	75.25	36
163	IPI:IPI00133916.2	Hnrnph1 Heterogeneous nuclear ribonucleoprotein H	42.47	49.89	36
164	IPI:IPI00308882.4	Ndufs1 NADH-ubiquinone oxidoreductase 75 kDa subunit, mitochondrial	42.17	35.76	29
165	IPI:IPI00230192.5	Gnao1 Isoform Alpha-1 of Guanine nucleotide-binding protein G(o) subunit alpha	42.07	58.76	46

166	IPI:IPI00121534.1 1	Car2 Carbonic anhydrase 2	41.65	80.38	69
167	IPI:IPI00553777.2	Hnrnpa1 Putative uncharacterized protein	41.6	45.31	56
168	IPI:IPI00930784.1	Ndufs1 NADH-ubiquinone oxidoreductase 75 kDa subunit, mitochondrial precursor	41.57	41.68	24
169	IPI:IPI00116279.3	Cct5 T-complex protein 1 subunit epsilon	41.46	48.06	28
170	IPI:IPI00116277.3	Cct4 T-complex protein 1 subunit delta	41.22	44.34	30
171	IPI:IPI00755791.4	Slmap Isoform 4 of Sarcolemmal membrane-associated protein	41.14	23.33	23
172	IPI:IPI00111885.1	Uqcrc1 Cytochrome b-c1 complex subunit 1, mitochondrial	40.98	54.37	38
173	IPI:IPI00117042.3	Gfap Isoform 1 of Glial fibrillary acidic protein	40.78	52.79	31
174	IPI:IPI00336881.1	Ddah2 N(G),N(G)-dimethylarginine dimethylaminohydrolase 2	40.58	80.35	27
175	IPI:IPI00465786.3	Tln1 Talin-1	40.37	14.40	27
176	IPI:IPI00130187.1	Atp6v0a1 Isoform A1-II of V-type proton ATPase 116 kDa subunit a isoform 1	40.16	23.12	27
177	IPI:IPI00131830.1	Serpina3k Serine protease inhibitor A3K	40.05	47.37	29
178	IPI:IPI00312128.3	Trim28 Isoform 1 of Transcription intermediary factor 1-beta	39.94	35.01	23
179	IPI:IPI00921642.1	Ank2 Isoform 5 of Ankyrin-2	39.89	10.85	27
180	IPI:IPI00856365.1	Dctn1 Dctn1 protein	39.84	28.16	26
181	IPI:IPI00119346.1	Calb2 Calretinin	39.75	68.27	32
182	IPI:IPI00228526.3	Atp6v0a1 ATPase, H+ transporting, lysosomal V0 subunit a isoform 1	39.42	26.68	27
183	IPI:IPI00756238.2	Mpp2 Isoform 2 of MAGUK p55 subfamily member 2	39.37	36.91	32
184	IPI:IPI00230540.1	Vdac1 Isoform Mt-VDAC1 of Voltage-dependent anion-selective channel protein 1	39.23	68.55	30
185	IPI:IPI00469268.5	Cct8 T-complex protein 1 subunit theta	39.18	43.07	26
186	IPI:IPI00331541.5	Pfkm 6-phosphofructokinase, muscle type	38.96	42.05	27
187	IPI:IPI00409462.2	Bat1a Spliceosome RNA helicase Bat1	38.9	42.29	31
188	IPI:IPI00623553.1	Gm10250;LOC100044492 hypothetical protein	38.86	81.88	33
189	IPI:IPI00400180.1	Amph Amphiphysin	38.67	34.69	23
190	IPI:IPI00229080.7	Hsp90ab1 Putative uncharacterized protein	38.67	52.07	80
191	IPI:IPI00135231.2	Idh1 Isocitrate dehydrogenase	38.65	53.79	30
192	IPI:IPI00321734.7	Glo1 Lactoylglutathione lyase	38.34	70.65	43
193	IPI:IPI00459493.5	Tcp1 Isoform 1 of T-complex protein 1 subunit alpha	38.3	40.47	26
194	IPI:IPI00224729.1	Hnrnp1 Putative uncharacterized protein	38.01	43.86	37
195	IPI:IPI00122270.3	Crybb3 Beta-crystallin B3	37.72	74.88	35
196	IPI:IPI00123613.1	Pacsin1 Protein kinase C and casein kinase substrate in neurons protein 1	37.56	59.41	25
197	IPI:IPI00124692.1	Taldo1 Transaldolase	37.43	43.62	24

198	IPI:IPI00828950.1	Atp6v0a1 ATPase, H+ transporting, lysosomal V0 subunit a isoform 1	37.42	21.15	25
199	IPI:IPI00626662.3	Aldh1a1 Retinal dehydrogenase 1	37.39	37.72	29
200	IPI:IPI00315879.1	Cndp2 Cytosolic non-specific dipeptidase	37.14	54.53	23
201	IPI:IPI00623284.4	Sf3b1 Splicing factor 3B subunit 1	37.13	23.47	21
202	IPI:IPI00798482.2 0	Hspa1a Heat shock 70 kDa protein 1A	36.92	55.85	57
203	IPI:IPI00111222.1	Aldh3a1 Aldehyde dehydrogenase, dimeric NADP-preferring	36.8	35.1	27
204	IPI:IPI00133176.1	Pdc Phosducin	36.7	63.93	49
205	IPI:IPI00400209.1	Plec Isoform PLEC-1H of Plectin	36.59	6.788	21
206	IPI:IPI00929758.1	Tln1 talin-1	36.44	15.31	29
207	IPI:IPI00123342.4	Hyou1 Hypoxia up-regulated protein 1	36.35	30.43	19
208	IPI:IPI00124287.1	Pabpc1 Polyadenylate-binding protein 1	36.24	33.18	21
209	IPI:IPI00928552.1	Impdh1 Inosine-5'-monophosphate dehydrogenase	36.21	46.63	25
210	IPI:IPI00314736.3	Anp32a Acidic leucine-rich nuclear phosphoprotein 32 family member A	36.16	50.20	34
211	IPI:IPI00403336.4	Opa1 Isoform 2 of Dynamin-like 120 kDa protein, mitochondrial	36.11	22.27	18
212	IPI:IPI00881945.1	Tpm3 29 kDa protein	36.04	54.44	19
213	IPI:IPI00118986.1	Atp5o;LOC100047429 ATP synthase subunit O, mitochondrial	35.96	69.95	38
214	IPI:IPI00116281.3	Cct6a T-complex protein 1 subunit zeta	35.96	44.07	23
215	IPI:IPI00664643.2	Flna Filamin, alpha	35.85	13.33	20
216	IPI:IPI00411074.2	Pcbp3 Isoform 1 of Poly(rC)-binding protein 3	35.75	62.8	32
217	IPI:IPI00228548.6	Eno3 Beta-enolase	35.72	63.13	181
218	IPI:IPI00271951.5	Pdia4 protein disulfide-isomerase A4	35.64	39.78	26
219	IPI:IPI00890117.1	Cfl1 Cofilin-1	35.6	74.1	26
220	IPI:IPI00556723.1	Dnm1l Isoform 1 of Dynamin-1-like protein	35.52	39.08	25
221	IPI:IPI00131304.3	Rpe65 Retinoid isomerohydrolase	35.44	28.33	20
222	IPI:IPI00554845.2	Immt Isoform 5 of Mitochondrial inner membrane protein	35.27	35.52	23
223	IPI:IPI00317309.5	Anxa5 Annexin A5	35.23	58.31	26
224	IPI:IPI00762452.2	Idh1 isocitrate dehydrogenase [NADP] cytoplasmic	35.09	52.90	26
225	IPI:IPI00759952.1	Ktn1 Isoform 3 of Kinectin	34.99	22.31	18
226	IPI:IPI00555125.1	Kif5b kinesin-1 heavy chain	34.9	23.78	21
227	IPI:IPI00118384.1	Ywhae 14-3-3 protein epsilon	34.79	68.24	55
228	IPI:IPI00881918.1	Usp5 Ubiquitin carboxyl-terminal hydrolase	34.69	34.01	21
229	IPI:IPI00227235.4	Ank2 Isoform 2 of Ankyrin-2	34.49	10.72	27
230	IPI:IPI00403996.2	Ilf3 Isoform 2 of Interleukin enhancer-binding factor 3	34.44	29.05	20
231	IPI:IPI00969867.1	Serpina1b Serpina1a protein	34.24	50.85	29

232	IPI:IPI00223319.3	Stx3 syntaxin-3 isoform B	34.08	54.36	31
233	IPI:IPI00114352.1	Bin1 Isoform 1 of Myc box-dependent-interacting protein 1	34.02	39.29	24
234	IPI:IPI00776384.1	Ilf3 Nuclear factor 90	33.93	32.15	21
235	IPI:IPI00229299.1	Epb4.1l3 Isoform 6 of Band 4.1-like protein 3	33.58	32.54	25
236	IPI:IPI00850833.1	Cadm2 Isoform 3 of Cell adhesion molecule 2	33.14	51.39	25
237	IPI:IPI00464317.3	Gls glutaminase isoform 1	33.14	37.39	22
238	IPI:IPI00753468.2	Ap2a2 AP-2 complex subunit alpha-2	33.12	28.89	24
239	IPI:IPI00129517.1	Prdx5 Isoform Mitochondrial of Peroxiredoxin-5, mitochondrial	33.06	63.33	23
240	IPI:IPI00124444.1	Pfkp Isoform 1 of 6-phosphofructokinase type C	32.95	31.51	25
241	IPI:IPI00230507.5	Atp5h ATP synthase subunit d, mitochondrial	32.85	85.09	26
242	IPI:IPI00112963.1	Ctnna1 Catenin alpha-1	32.73	32.01	21
243	IPI:IPI00129430.1	Sfpq Splicing factor, proline- and glutamine-rich	32.67	27.18	27
244	IPI:IPI00314748.7	Wdr1 WD repeat-containing protein 1	32.66	31.52	21
245	IPI:IPI00759940.2	Fh1 fumarate hydratase, mitochondrial precursor	32.62	46.55	26
246	IPI:IPI00110684.1	Ppa1 Inorganic pyrophosphatase	32.59	57.44	20
247	IPI:IPI00378063.1	Ap2b1 Isoform 2 of AP-2 complex subunit beta	32.53	25.55	22
248	IPI:IPI00312527.4	Crmp1 Crmp1 protein	32.45	51.9	44
249	IPI:IPI00110721.5	Glod4 Isoform 1 of Glyoxalase domain-containing protein 4	32.41	57.38	19
250	IPI:IPI00336874.1	Hnrnpd Isoform 4 of Heterogeneous nuclear ribonucleoprotein D0	32.34	40.42	31
251	IPI:IPI00420329.1	Snrnp200 Small nuclear ribonucleoprotein 200	32.31	11.33	19
252	IPI:IPI00670114.1	Cadps Isoform 4 of Calcium-dependent secretion activator 1	32.25	17.17	21
253	IPI:IPI00761696.2	Calm1;Calm2;Calm3 Calmodulin	32.24	93.96	53
254	IPI:IPI00473748.5	Mtap4 Isoform 3 of Microtubule-associated protein 4	32.15	26.03	21
255	IPI:IPI00226073.2	Hnrnpf Isoform 1 of Heterogeneous nuclear ribonucleoprotein F	31.84	54.22	28
256	IPI:IPI00881540.3	Synj1 Synaptojanin-1	31.65	18.87	25
257	IPI:IPI00132653.1	Oxct1 Succinyl-CoA:3-ketoacid-coenzyme A transferase 1, mitochondrial	31.65	41.35	19
258	IPI:IPI00113214.1	Usp5 Ubiquitin carboxyl-terminal hydrolase 5	31.59	31.93	18
259	IPI:IPI00918800.1	Rdh5 retinol dehydrogenase 5	31.57	69.18	20
260	IPI:IPI00134344.6	Spnb3 Putative uncharacterized protein	31.57	12.69	25
261	IPI:IPI00339916.9	Eprs Bifunctional aminoacyl-tRNA synthetase	31.55	15.41	20
262	IPI:IPI00311461.1	Atp6v1h V-type proton ATPase subunit H	31.5	38.3	19
263	IPI:IPI00128296.1	Ckmt1 Creatine kinase U-type, mitochondrial	31.47	55.5	33
264	IPI:IPI00808550.1	Fam169a Protein FAM169A	31.31	32.63	26
265	IPI:IPI00261627.1	Sucla2 Succinyl-CoA ligase [ADP-forming] subunit beta, mitochondrial	31.3	34.99	18

266	IPI:IPI00121550.3	Atp1b1 Sodium/potassium-transporting ATPase subunit beta-1	31.28	41.78	21
267	IPI:IPI00111412.3	Rpl4 60S ribosomal protein L4	31.06	38.9	19
268	IPI:IPI00225337.5	Rbp1 Retinol-binding protein 1	31.06	72.59	24
269	IPI:IPI00331552.4	Pabpc1 polyadenylate-binding protein 1	30.92	31.6	18
270	IPI:IPI00229510.5	Ldhb L-lactate dehydrogenase B chain	30.78	54.79	29
271	IPI:IPI00930878.1	Psmc3 26S protease regulatory subunit 6A	30.72	45.7	20
272	IPI:IPI00126128.1	Grk1;LOC100045507 Rhodopsin kinase	30.62	32.62	19
273	IPI:IPI00113141.1	Cs Citrate synthase, mitochondrial	30.61	44.4	39
274	IPI:IPI00226891.1	Myef2 Isoform 1 of Myelin expression factor 2	30.51	25.38	19
275	IPI:IPI00116112.3	Dctn2 Dynactin subunit 2	30.48	59.45	21
276	IPI:IPI00122011.2	Sf3b3 Isoform 1 of Splicing factor 3B subunit 3	30.41	19.31	23
277	IPI:IPI00230440.6	Ahcy Adenosylhomocysteinase	30.3	43.06	21
278	IPI:IPI00459725.2	Idh3a Isoform 1 of Isocitrate dehydrogenase [NAD] subunit alpha, mitochondrial	30.3	51.09	25
279	IPI:IPI00858128.1	Camk2d calcium/calmodulin-dependent protein kinase type II subunit delta isoform 1	30.28	33.4	22
280	IPI:IPI00620362.4	Hnrnpl Heterogeneous nuclear ribonucleoprotein L	30.25	35.15	36
281	IPI:IPI00227782.5	Cryba4 Beta-crystallin A4	30.24	70.92	41
282	IPI:IPI00123704.1	Atp1b2 Sodium/potassium-transporting ATPase subunit beta-2	30.22	32.07	20
283	IPI:IPI00127172.3	Ddx1 ATP-dependent RNA helicase DDX1	30.22	25.81	18
284	IPI:IPI00125635.1	Snap25 Isoform SNAP-25b of Synaptosomal-associated protein 25	30.2	60.19	29
285	IPI:IPI00462873.3	Epb4.1 Isoform 2 of Protein 4.1	30.12	26.12	19
286	IPI:IPI00136134.1	Ndr2 Isoform 1 of Protein NDRG2	29.88	59.3	29
287	IPI:IPI00113530.3	Impg1 Isoform 2 of Interphotoreceptor matrix proteoglycan 1	29.87	28.17	19
288	IPI:IPI00461967.2	Cadm1 Isoform 3 of Cell adhesion molecule 1	29.83	42.76	37
289	IPI:IPI00927975.1	Pfcp Putative uncharacterized protein	29.77	28.06	23
290	IPI:IPI00134300.1	Ssb Lupus La protein homolog	29.77	35.66	17
291	IPI:IPI00875244.1	Cadm1 46 kDa protein	29.74	43.93	32
292	IPI:IPI00874456.1	Dld Dihydrolipoyl dehydrogenase, mitochondrial	29.73	43.22	19
293	IPI:IPI00855011.1	Opa1 similar to optic atrophy 1	29.55	26.91	18
294	IPI:IPI00130016.1	Anp32e Isoform 1 of Acidic leucine-rich nuclear phosphoprotein 32 family member E	29.5	55.77	34
295	IPI:IPI00131459.1	Nme1;LOC100046344 Nucleoside diphosphate kinase A	29.46	83.55	17
296	IPI:IPI00117831.2	Cp Ceruloplasmin	29.42	19.98	19
297	IPI:IPI00331174.5	Cct7 T-complex protein 1 subunit eta	29.38	34.01	20
298	IPI:IPI00874653.1	Cadm2 43 kDa protein	29.31	49.87	28
299	IPI:IPI00830427.1	Tpm1 tropomyosin alpha-1 chain isoform 9	29.24	43.42	18
300	IPI:IPI00464296.5	Epb4.1i3 Isoform 8 of Band 4.1-like protein 3	29.18	23.46	23

301	IPI:IPI00119115.2	Atp6v1e1 V-type proton ATPase subunit E 1	29.07	63.27	33
302	IPI:IPI00116850.3	D10Wsu52e UPF0027 protein C22orf28 homolog	29.07	36.83	21
303	IPI:IPI00890008.1	Gucy2e guanylyl cyclase GC-E precursor	29	23.01	22
304	IPI:IPI00153660.4	Dlat Dihydrolipoyllysine-residue acetyltransferase component of pyruvate dehydrogenase complex, mitochondrial	28.92	34.27	19
305	IPI:IPI00649135.2	Gstm1 Glutathione S-transferase, mu 1	28.88	48.36	20
306	IPI:IPI00222208.2	Hnrnpul2 Heterogeneous nuclear ribonucleoprotein U-like protein 2	28.85	29.53	21
307	IPI:IPI00653158.1	Acaa2 Putative uncharacterized protein	28.83	61.46	19
308	IPI:IPI00969326.1	Prdx5 Prdx5 protein	28.68	57.62	26
309	IPI:IPI00154084.2	Myef2 Isoform 2 of Myelin expression factor 2	28.43	26.13	18
310	IPI:IPI00667117.2	Dbi Acyl-CoA-binding protein	28.42	79.31	30
311	IPI:IPI00648567.1	Sh3gl2 SH3-domain GRB2-like 2	28.38	46.64	22
312	IPI:IPI00130729.3	Gucy2e Guanylyl cyclase GC-E	28.37	17.33	20
313	IPI:IPI00453777.2	Atp5d ATP synthase subunit delta, mitochondrial	28.36	67.26	22
314	IPI:IPI00227432.7	Dnm3 Isoform 1 of Dynamin-3	28.33	30.01	32
315	IPI:IPI00129178.1	Oat Ornithine aminotransferase, mitochondrial	28.27	49.43	21
316	IPI:IPI00122094.2	Dlg4 Isoform 2 of Disks large homolog 4	28.14	31.55	17
317	IPI:IPI00354210.7	Cryge Gamma-crystallin E	28.12	74.71	70
318	IPI:IPI00123292.5	Fubp1 Putative uncharacterized protein	27.98	26.29	21
319	IPI:IPI00114209.1	Glud1 Glutamate dehydrogenase 1, mitochondrial	27.86	32.44	17
320	IPI:IPI00120719.4	Cox5a Cytochrome c oxidase subunit 5A, mitochondrial	27.69	59.59	20
321	IPI:IPI00128028.1	Scgn Secretagoin	27.67	54.35	25
322	IPI:IPI00121788.1	Prdx1 Peroxiredoxin-1	27.65	64.32	23
323	IPI:IPI00880644.2	Tpr nuclear pore complex-associated protein Tpr	27.65	9.461	15
324	IPI:IPI00117288.3	Hnrnpab Heterogeneous nuclear ribonucleoprotein A/B	27.63	34.39	25
325	IPI:IPI00849047.1	- similar to heterogeneous nuclear ribonucleoprotein U-like 2	27.62	29.53	21
326	IPI:IPI00121209.1	Apoa1 Apolipoprotein A-I	27.62	59.47	18
327	IPI:IPI00114342.1	Hk2 Hexokinase-2	27.6	24.65	25
328	IPI:IPI00930882.1	Slc3a2 4F2 cell-surface antigen heavy chain isoform a	27.57	30.44	18
329	IPI:IPI00469317.4	Sars Seryl-tRNA synthetase, cytoplasmic	27.56	29.88	15
330	IPI:IPI00223047.2	Ckap4 Cytoskeleton-associated protein 4	27.55	28.87	18
331	IPI:IPI00225307.1	Sars Seryl-aminoacyl-tRNA synthetase, isoform CRA_b	27.53	39.74	22
332	IPI:IPI00134599.1	Rps3 40S ribosomal protein S3	27.51	39.51	8
333	IPI:IPI00858144.1	Camk2d 55 kDa protein	27.47	33.61	18
334	IPI:IPI00321308.4	Aars Alanyl-tRNA synthetase, cytoplasmic	27.38	19.63	16
335	IPI:IPI00284806.8	Hprt Hypoxanthine-guanine	27.33	67.43	19

		phosphoribosyltransferase			
336	IPI:IPI00337893.2	Pdha1 Pyruvate dehydrogenase E1 component subunit alpha, somatic form, mitochondrial	27.3	36.15	19
337	IPI:IPI00466032.3	Elav1 ELAV-like protein 1	27.22	52.15	20
338	IPI:IPI00555023.2	Gstp1 Glutathione S-transferase P 1	27.2	58.57	33
339	IPI:IPI00894579.1	Pgd 6-phosphogluconate dehydrogenase, decarboxylating	27.11	31.26	18
340	IPI:IPI00396797.2	Ddx17 Isoform 1 of Probable ATP-dependent RNA helicase DDX17	27.01	32.46	26
341	IPI:IPI00420807.3	Srsf1;LOC100048559 Isoform 1 of Serine/arginine-rich splicing factor 1	26.97	40.73	15
342	IPI:IPI00649033.5	Gfap Isoform 2 of Glial fibrillary acidic protein	26.95	34.58	20
343	IPI:IPI00929813.1	Nap1l1 nucleosome assembly protein 1-like 1 isoform 1	26.94	44.02	21
344	IPI:IPI00128071.7	Uso1 Isoform 1 of General vesicular transport factor p115	26.92	10.53	9
345	IPI:IPI00136000.1	Add1 Isoform 1 of Alpha-adducin	26.9	21.36	14
346	IPI:IPI00895414.1	Park7 Parkinson disease (Autosomal recessive, early onset) 7	26.8	67.55	26
347	IPI:IPI00128023.3	Ndufs2 NADH dehydrogenase [ubiquinone] iron-sulfur protein 2, mitochondrial	26.8	28.51	9
348	IPI:IPI00154054.1	Acat1 Acetyl-CoA acetyltransferase, mitochondrial	26.75	45.05	23
349	IPI:IPI00322033.7	Tom1l2 Isoform 1 of TOM1-like protein 2	26.7	41.22	14
350	IPI:IPI00227144.1	Rdh12 Retinol dehydrogenase 12	26.63	47.47	17
351	IPI:IPI00126635.1	Idh3b isocitrate dehydrogenase 3, beta subunit	26.62	42.45	17
352	IPI:IPI00131614.1	Sncb Beta-synuclein	26.61	96.99	24
353	IPI:IPI00895965.1	Mtap2 Microtubule-associated protein	26.58	14.55	18
354	IPI:IPI00775838.1	Dhx15 putative pre-mRNA-splicing factor ATP-dependent RNA helicase DHX15 isoform 1	26.43	24.61	16
355	IPI:IPI00223443.1	Hnrnpc Isoform C1 of Heterogeneous nuclear ribonucleoproteins C1/C2	26.43	42.67	21
356	IPI:IPI00759881.1	Acad9 acyl-CoA dehydrogenase family member 9, mitochondrial precursor	26.28	28.16	14
357	IPI:IPI00405227.3	Vcl Vinculin	26.25	20.26	15
358	IPI:IPI00122547.1	Vdac2 Voltage-dependent anion-selective channel protein 2	26.15	52.88	18
359	IPI:IPI00624192.3	Dpysl5 Dihydropyrimidinase-related protein 5	26.11	35.64	14
360	IPI:IPI00313962.3	Uchl1 Ubiquitin carboxyl-terminal hydrolase isozyme L1	26.1	69.06	23
361	IPI:IPI00943457.1	Pcx pyruvate carboxylase isoform 1	25.96	13.74	9
362	IPI:IPI00318550.5	Ilf2 Interleukin enhancer-binding factor 2	25.94	47.95	14
363	IPI:IPI00128904.1	Pcbp1 Poly(rC)-binding protein 1	25.92	61.52	29
364	IPI:IPI00411088.5	Cadm1 Isoform 2 of Cell adhesion molecule 1	25.91	42.02	34
365	IPI:IPI00117910.3	Prdx2 Peroxiredoxin-2	25.89	63.64	30

366	IPI:IPI00750256.2	Ak1 Isoform 2 of Adenylate kinase isoenzyme 1	25.88	50.48	20
367	IPI:IPI00130173.1	Uba2 SUMO-activating enzyme subunit 2	25.72	27.9	14
368	IPI:IPI00187557.2	Obp1a Putative uncharacterized protein	25.66	58.9	21
369	IPI:IPI00408892.2	Rab7 Ras-related protein Rab-7a	25.58	62.32	18
370	IPI:IPI00169788.1	Prkar2a cAMP-dependent protein kinase type II-alpha regulatory chain	25.53	42.79	17
371	IPI:IPI00929789.1	Guk1 guanylate kinase isoform 2	25.42	71.01	19
372	IPI:IPI00850430.1	LOC100046151 similar to Solute carrier family 25 (mitochondrial carrier, phosphate carrier), member 3	25.41	30.25	17
373	IPI:IPI00125899.1	Ctnnb1 Catenin beta-1	25.4	17.8	8
374	IPI:IPI00349401.5	Sf3b2 splicing factor 3b, subunit 2	25.37	21.98	15
375	IPI:IPI00775854.1	Dlg2 Uncharacterized protein	25.29	21.19	15
376	IPI:IPI00626797.1	Dlg4 Isoform 3 of Disks large homolog 4	25.25	33.56	17
377	IPI:IPI00400432.2	Eif4a2 Isoform 1 of Eukaryotic initiation factor 4A-II	25.21	45.21	19
378	IPI:IPI00222515.5	Psmd11 26S proteasome non-ATPase regulatory subunit 11	25.18	34.12	14
379	IPI:IPI00122353.1	PrkcsH Isoform 2 of Glucosidase 2 subunit beta	25.17	22.35	12
380	IPI:IPI00458612.5	Aak1 Isoform 1 of AP2-associated protein kinase 1	25.03	15.64	9
381	IPI:IPI00874570.1	Cp Putative uncharacterized protein	24.82	17.97	15
382	IPI:IPI00268144.1	Si Silver, isoform CRA_a	24.8	22.68	20
383	IPI:IPI00279443.1	Hspa12a Heat shock 70 kDa protein 12A	24.79	15.11	9
384	IPI:IPI00124771.1	Slc25a3 Phosphate carrier protein, mitochondrial	24.79	34.73	19
385	IPI:IPI00850217.2	LOC100046119 similar to ubiquitin-conjugating enzyme E2 UbcH-ben	24.78	58.62	18
386	IPI:IPI00845772.1	Cyc1 Isoform 2 of Cytochrome c1, heme protein, mitochondrial	24.75	51.13	16
387	IPI:IPI00653794.2	Rap1gds1 RAP1, GTP-GDP dissociation stimulator 1 isoform a	24.71	29	14
388	IPI:IPI00316740.4	Ddb1 DNA damage-binding protein 1	24.68	13.95	15
389	IPI:IPI00134809.2	Dist Isoform 1 of Dihydrolipoyllysine-residue succinyltransferase component of 2-oxoglutarate dehydrogenase complex, mitochondrial	24.67	40.31	19
390	IPI:IPI00553593.1	Tnr Isoform 2 of Tenascin-R	24.67	17.74	16
391	IPI:IPI00331092.7	Rps4x 40S ribosomal protein S4, X isoform	24.66	30.42	8
392	IPI:IPI00129319.3	Ppp1r7 Protein phosphatase 1 regulatory subunit 7	24.65	36.29	9
393	IPI:IPI00788505.1	Impg1 Isoform 1 of Interphotoreceptor matrix proteoglycan 1	24.59	18.17	15
394	IPI:IPI00133440.1	Phb Prohibitin	24.56	55.15	15
395	IPI:IPI00480307.1	Cops2 Isoform 2 of COP9 signalosome complex subunit 2	24.38	20.22	9
396	IPI:IPI00153421.1	Dync1li1 Cytoplasmic dynein 1 light intermediate chain 1	24.37	23.52	9

397	IPI:IPI00760078.1	Ktn1 Isoform 9 of Kinectin	24.36	16.61	14
398	IPI:IPI00314191.6	Cbr1 Carbonyl reductase [NADPH] 1	24.32	54.87	16
399	IPI:IPI00221613.5	Arf1 ADP-ribosylation factor 1	24.3	69.06	20
400	IPI:IPI00622811.2	Ap2m1 Putative uncharacterized protein	24.3	30.72	14
401	IPI:IPI00957027.1	Rpl3 Putative uncharacterized protein	24.21	31.51	18
402	IPI:IPI00112719.1	Alad Delta-aminolevulinic acid dehydratase	24.2	45.76	19
403	IPI:IPI00406118.1	Syncrip Isoform 2 of Heterogeneous nuclear ribonucleoprotein Q	24.13	42.53	20
404	IPI:IPI00944067.1	Ndufa9 NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 9, mitochondrial precursor	24.03	38.99	12
405	IPI:IPI00408269.4	Snap91 Isoform 3 of Clathrin coat assembly protein AP180	24	24.42	22
406	IPI:IPI00110827.1	Acta1 Actin, alpha skeletal muscle	23.94	73.74	95
407	IPI:IPI00132042.1	Pdhb Pyruvate dehydrogenase E1 component subunit beta, mitochondrial	23.89	33.7	19
408	IPI:IPI00277066.4	Hnrnpab heterogeneous nuclear ribonucleoprotein A/B isoform 1	23.85	26.81	22
409	IPI:IPI00342603.7	Ogdhl oxoglutarate dehydrogenase-like	23.84	22.55	21
410	IPI:IPI00875110.1	Idh2 52 kDa protein	23.84	31.34	15
411	IPI:IPI00313817.1	Hdgf Hepatoma-derived growth factor	23.83	50.21	15
412	IPI:IPI00230760.5	Mb Myoglobin	23.8	65.58	18
413	IPI:IPI00315100.1	Rhoa Transforming protein RhoA	23.73	58.03	19
414	IPI:IPI00229834.3	Copa Coatomer subunit alpha	23.55	17.73	16
415	IPI:IPI00649885.3	Acadvl Acyl-Coenzyme A dehydrogenase, very long chain	23.49	30.44	14
416	IPI:IPI00127415.1	Npm1 Nucleophosmin	23.49	43.84	21
417	IPI:IPI00881197.1	Me1 NADP-dependent malic enzyme	23.46	29.37	17
418	IPI:IPI00624840.2	- 12 kDa protein	23.42	62.86	14
419	IPI:IPI00316491.4	Hbb-b2 Hemoglobin subunit beta-2	23.4	95.24	90
420	IPI:IPI00228385.5	G6pdx Glucose-6-phosphate 1-dehydrogenase X	23.35	27.38	15
421	IPI:IPI00124223.3	Psme1 Proteasome activator complex subunit 1	23.21	48.59	15
422	IPI:IPI00894724.1	Mtap2 Putative uncharacterized protein	23.16	13.57	17
423	IPI:IPI00649753.2	Epb4.1 protein 4.1 isoform 3	23.12	27.88	19
424	IPI:IPI00421218.5	Tln2 Talin-2	23.12	11.94	20
425	IPI:IPI00130186.4	Atp6v1c1 V-type proton ATPase subunit C 1	23.12	31.68	15
426	IPI:IPI00222496.3	Pdia6 Putative uncharacterized protein	23.1	37.08	15
427	IPI:IPI00230044.5	Tpm3 Isoform 2 of Tropomyosin alpha-3 chain	23.1	44.35	15
428	IPI:IPI00118787.1	Atp6v1d V-type proton ATPase subunit D	23.01	39.68	9
429	IPI:IPI00123604.4	Rpsa;LOC100045332 40S ribosomal protein SA	22.99	39.66	9
430	IPI:IPI00760003.1	Ktn1 Isoform 5 of Kinectin	22.93	13.33	12
431	IPI:IPI00453818.3	Pdcd6ip programmed cell death 6-interacting protein isoform 3	22.92	22.09	15

432	IPI:IPI00130769.1	Prph2 Peripherin-2	22.91	27.75	18
433	IPI:IPI00120030.1	Crym Mu-crystallin homolog	22.9	50.8	19
434	IPI:IPI00341282.2	Atp5f1 ATP synthase subunit b, mitochondrial	22.85	39.45	15
435	IPI:IPI00120076.2	Ckmt2 Creatine kinase S-type, mitochondrial	22.83	50.84	28
436	IPI:IPI00113149.1	Stx1b Syntaxin-1B	22.82	42.01	18
437	IPI:IPI00467841.6	Calm1;Calm2;Calm3 Putative uncharacterized protein	22.79	52.79	60
438	IPI:IPI00857226.1	Acs1 Uncharacterized protein	22.78	24.75	15
439	IPI:IPI00221614.3	Arf3 ADP-ribosylation factor 3	22.65	67.4	18
440	IPI:IPI00134704.1	Cryz Quinone oxidoreductase	22.57	40.48	9
441	IPI:IPI00318614.9	Idh2 Isocitrate dehydrogenase [NADP], mitochondrial	22.56	37.83	16
442	IPI:IPI00136002.1	Ptbp2 Isoform 2 of Polypyrimidine tract-binding protein 2	22.55	24.81	9
443	IPI:IPI00323881.1	Kpnb1 Importin subunit beta-1	22.53	18.38	13
444	IPI:IPI00408495.1	Bsg Isoform 1 of Basigin	22.44	38.82	18
445	IPI:IPI00230139.5	Fkbp4 Peptidyl-prolyl cis-trans isomerase FKBP4	22.39	29.91	16
446	IPI:IPI00121758.1	Tardbp TAR DNA-binding protein 43	22.36	26.09	9
447	IPI:IPI00108189.4	Hint1 Histidine triad nucleotide-binding protein 1	22.33	87.3	15
448	IPI:IPI00875405.1	Psm1 111 kDa protein	22.33	11.08	8
449	IPI:IPI00309035.2	Rpn1 Dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit 1	22.26	13.16	8
450	IPI:IPI00876202.1	Nap1l4 Nucleosome assembly protein 1-like 4	22.26	33.33	16
451	IPI:IPI00136498.1	Lin7c Protein lin-7 homolog C	22.24	48.73	9
452	IPI:IPI00111181.1	Vps35 Vacuolar protein sorting-associated protein 35	22.21	13.19	8
453	IPI:IPI00273164.1	Aldh5a1 Succinate-semialdehyde dehydrogenase, mitochondrial	22.21	16.25	6
454	IPI:IPI00928416.1	Ndufv1 Uncharacterized protein	22.17	28.35	13
455	IPI:IPI00123624.8	2610301G19Rik Protein KIAA1967 homolog	22.17	20.5	15
456	IPI:IPI00113794.1	Rom1 Rod outer segment membrane protein 1	22.13	29.63	9
457	IPI:IPI00421267.1	Plec Isoform PLEC-1D of Plectin	22.07	5.941	20
458	IPI:IPI00116356.5	Ap2m1 AP-2 complex subunit mu	22	30.57	14
459	IPI:IPI00757181.1	LOC100045958 similar to hCG45299 isoform 3	21.94	51.49	15
460	IPI:IPI00830707.1	Cdh2 Uncharacterized protein	21.92	23.2	14
461	IPI:IPI00132728.2	Cyc1 Isoform 1 of Cytochrome c1, heme protein, mitochondrial	21.9	53.54	16
462	IPI:IPI00323809.3	Palm Isoform 2 of Paralemmin	21.84	39.82	9
463	IPI:IPI00625248.3	Impa1 inositol monophosphatase 1	21.79	38.63	9
464	IPI:IPI00380436.1	Actn1 Alpha-actinin-1	21.74	37.11	32
465	IPI:IPI00338536.1	Sdhb Succinate dehydrogenase [ubiquinone] iron-sulfur subunit, mitochondrial	21.7	31.91	14
466	IPI:IPI00849478.1	LOC100047252 similar to Phosphoserine aminotransferase 1 isoform 1	21.62	17.84	8

467	IPI:IPI00111013.1	Ctsd Cathepsin D	21.55	30	9
468	IPI:IPI00113869.1	Bsg Isoform 2 of Basigin	21.54	42.49	16
469	IPI:IPI00649950.3	Eftud2 116 kDa U5 small nuclear ribonucleoprotein component isoform b	21.53	15.12	14
470	IPI:IPI00130589.8	Sod1 Superoxide dismutase [Cu-Zn]	21.52	77.27	21
471	IPI:IPI00881096.1	Napg Uncharacterized protein	21.51	30.88	9
472	IPI:IPI00353563.4	Fscn1 Fascin	21.51	24.95	9
473	IPI:IPI00751607.1	LOC100045958 similar to hCG45299 isoform 2	21.5	50.17	11
474	IPI:IPI00109813.1	Hnrnpa0 heterogeneous nuclear ribonucleoprotein A0	21.43	40.98	21
475	IPI:IPI00117978.1	Cox4i1 Cytochrome c oxidase subunit 4 isoform 1, mitochondrial	21.43	45.56	16
476	IPI:IPI00229294.1	Epb4.1l3 Isoform 2 of Band 4.1-like protein 3	21.36	32.37	27
477	IPI:IPI00230754.5	Slc25a11 Mitochondrial 2-oxoglutarate/malate carrier protein	21.32	44.59	14
478	IPI:IPI00116940.5	Gngt1 Guanine nucleotide-binding protein G(T) subunit gamma-T1	21.27	63.51	35
479	IPI:IPI00112251.1	Tubb3 Tubulin beta-3 chain	21.23	73.11	147
480	IPI:IPI00130252.1	Rs1 Retinoschisin	21.17	44.2	14
481	IPI:IPI00129519.3	Basp1 Brain acid soluble protein 1	21.16	41.59	6
482	IPI:IPI00124787.3	Arl3 ADP-ribosylation factor-like protein 3	21.14	64.29	13
483	IPI:IPI00308217.1	Adsl Adenylosuccinate lyase	21.09	34.92	16
484	IPI:IPI00515505.3	Srsf1 Isoform 3 of Serine/arginine-rich splicing factor 1	21.07	45.92	13
485	IPI:IPI00408796.3	Sf3a1 Splicing factor 3A subunit 1	21.04	14.54	9
486	IPI:IPI00462445.2	Nedd4 E3 ubiquitin-protein ligase NEDD4	21.03	12.06	9
487	IPI:IPI00622911.1	Ap2a1 Isoform B of AP-2 complex subunit alpha-1	21.02	25.13	21
488	IPI:IPI00315999.4	Atp6v1f V-type proton ATPase subunit F	21.02	77.31	14
489	IPI:IPI00131674.3	2210010C04Rik trypsinogen 7	21.01	30.77	36
490	IPI:IPI00133977.3	Nap1l4 Putative uncharacterized protein	21	36.26	20
491	IPI:IPI00626994.3	Ipo5 Isoform 1 of Importin-5	20.98	9.936	7
492	IPI:IPI00109482.3	Ddah1 N(G),N(G)-dimethylarginine dimethylaminohydrolase 1	20.97	51.93	19
493	IPI:IPI00323911.3	Gsta4 Glutathione S-transferase A4	20.85	39.64	13
494	IPI:IPI00153107.3	Blmh Bleomycin hydrolase	20.84	23.74	9
495	IPI:IPI00270326.1	Psmc2 Putative uncharacterized protein	20.84	27.79	13
496	IPI:IPI00124221.1	Atp1b3 Sodium/potassium-transporting ATPase subunit beta-3	20.83	39.57	15
497	IPI:IPI00894588.1	Acadl long-chain specific acyl-CoA dehydrogenase, mitochondrial precursor	20.79	26.28	14
498	IPI:IPI00134621.3	Ran;LOC100045999 GTP-binding nuclear protein Ran	20.76	58.8	15
499	IPI:IPI00776187.1	Myo6 Putative uncharacterized protein	20.73	14.45	16
500	IPI:IPI00230418.5	Vsnl1 Visinin-like protein 1	20.73	47.12	13

501	IPI:IPI00653617.1	Snap91 Putative uncharacterized protein	20.68	21.6	18
502	IPI:IPI00331066.6	Calb1 Calbindin	20.66	58.62	17
503	IPI:IPI00131406.1	Psma7 Proteasome subunit alpha type-7	20.62	59.68	12
504	IPI:IPI00410883.1	Set Isoform 2 of Protein SET	20.62	39.35	16
505	IPI:IPI00649292.1	Myh2 Myosin, heavy polypeptide 2, skeletal muscle, adult	20.55	11.51	16
506	IPI:IPI00127841.3	Slc25a5 ADP/ATP translocase 2	20.54	57.38	42
507	IPI:IPI00121596.4	Prpf8 Pre-mRNA-processing-splicing factor 8	20.53	6.552	9
508	IPI:IPI00132080.1	Pgls 6-phosphogluconolactonase	20.46	44.75	9
509	IPI:IPI00153340.1	Cplx3 Complexin-3	20.45	54.43	21
510	IPI:IPI00749860.1	Cdh2;LOC100044363 cadherin-2 precursor	20.41	19.43	11
511	IPI:IPI00131871.1	Cops4 COP9 signalosome complex subunit 4	20.35	29.56	9
512	IPI:IPI00677454.2	Cbx3 Chromobox homolog 3	20.35	42.62	9
513	IPI:IPI00119785.2	C2cd2l C2 domain-containing protein 2-like	20.33	26.35	15
514	IPI:IPI00137227.1	Rab2a Ras-related protein Rab-2A	20.3	50	9
515	IPI:IPI00742334.1	Kpnb1 importin subunit beta-1	20.27	15.3	11
516	IPI:IPI00788417.1	Pde6b rod cGMP-specific 3',5'-cyclic phosphodiesterase subunit beta precursor	20.26	30.26	30
517	IPI:IPI00625738.3	Dnm3 Isoform 2 of Dynamin-3	20.26	24.56	17
518	IPI:IPI00132966.3	Ppid Peptidyl-prolyl cis-trans isomerase D	20.23	33.51	21
519	IPI:IPI00626312.1	Gm6136 similar to ribosomal protein L6	20.23	28.38	7
520	IPI:IPI00653423.2	Bcat1 Branched-chain-amino-acid aminotransferase	20.15	36.27	15
521	IPI:IPI00126042.3	Rab14 Ras-related protein Rab-14	20.12	62.79	17
522	IPI:IPI00133240.1	Uqcrfs1 Cytochrome b-c1 complex subunit Rieske, mitochondrial	20.1	53.28	14
523	IPI:IPI00653007.1	Actc1 Putative uncharacterized protein	20.07	71.88	67
524	IPI:IPI00135186.1	Calu Calumenin	20.02	32.06	9
525	IPI:IPI00465810.3	Sv2a Synaptic vesicle glycoprotein 2A	20	11.19	9
526	IPI:IPI00318841.4	Eef1g Elongation factor 1-gamma	19.88	22.65	9
527	IPI:IPI00132456.1	2700060E02Rik UPF0568 protein C14orf166 homolog	19.88	47.13	9
528	IPI:IPI00128986.1	Tagln3 Transgelin-3	19.86	52.76	16
529	IPI:IPI00222398.5	Crygc Gamma-crystallin C	19.86	70.69	78
530	IPI:IPI00134961.1	Acadm Medium-chain specific acyl-CoA dehydrogenase, mitochondrial	19.84	21.14	8
531	IPI:IPI00122965.1	Rab3a Ras-related protein Rab-3A	19.82	55.45	20
532	IPI:IPI00331394.3	Dnpep aspartyl aminopeptidase isoform a	19.82	29.89	15
533	IPI:IPI00970652.1	Pcmt1 protein-L-isoaspartate(D-aspartate) O-methyltransferase	19.82	51.23	12
534	IPI:IPI00116753.4	Etfa Electron transfer flavoprotein subunit alpha, mitochondrial	19.78	47.15	14
535	IPI:IPI00114162.3	Fabp5 Fatty acid-binding protein, epidermal	19.75	64.44	21

536	IPI:IPI00754487.1	- similar to ribosomal protein L3 isoform 1	19.75	21.59	8
537	IPI:IPI00130530.1	Grhpr Glyoxylate reductase/hydroxypyruvate reductase	19.59	26.83	7
538	IPI:IPI00138342.3	Es1 Liver carboxylesterase N	19.58	21.48	8
539	IPI:IPI00348531.6	Gm14743 Novel protein similar to odorant binding protein Ib Obp1b	19.37	60.23	15
540	IPI:IPI00555000.2	Uqcrb Cytochrome b-c1 complex subunit 7	19.34	52.25	8
541	IPI:IPI00313841.1	Atp6v0d1 V-type proton ATPase subunit d 1	19.3	33.62	9
542	IPI:IPI00408176.2	Csnk2a1;Gm10031 casein kinase II subunit alpha	19.29	34.27	14
543	IPI:IPI00221890.6	Car3 Carbonic anhydrase 3	19.23	54.62	18
544	IPI:IPI00311236.1	Rpl7 60S ribosomal protein L7	19.2	22.59	9
545	IPI:IPI00875742.1	Ilf2 Putative uncharacterized protein	19.18	43.59	11
546	IPI:IPI00127050.1	Ppa2 Isoform 1 of Inorganic pyrophosphatase 2, mitochondrial	19.11	50.61	13
547	IPI:IPI00277026.1	Anp32e Isoform 2 of Acidic leucine-rich nuclear phosphoprotein 32 family member E	19.11	45.56	26
548	IPI:IPI00132874.4	Mgll Putative uncharacterized protein	19.09	43.07	15
549	IPI:IPI00856904.1	Add1 73 kDa protein	19.09	23.03	11
550	IPI:IPI00139795.2	Rplp2 60S acidic ribosomal protein P2	19.06	92.17	17
551	IPI:IPI00776023.1	Pls3 Plastin 3	19.02	12.68	8
552	IPI:IPI00118880.5	Gucy1b3 Guanylate cyclase soluble subunit beta-1	19.01	13.71	7
553	IPI:IPI00132089.2	Prep Putative uncharacterized protein	18.93	12.72	8
554	IPI:IPI00117167.2	Gsn Isoform 1 of Gelsolin	18.9	24.23	12
555	IPI:IPI00230677.1	Acin1 Isoform 4 of Apoptotic chromatin condensation inducer in the nucleus	18.89	12.33	13
556	IPI:IPI00169925.2	Ndufv2 Isoform 1 of NADH dehydrogenase [ubiquinone] flavoprotein 2, mitochondrial	18.86	39.52	11
557	IPI:IPI00116192.1	Prdx3 Thioredoxin-dependent peroxide reductase, mitochondrial	18.8	41.25	16
558	IPI:IPI00853924.1	Ywhaq 34 kDa protein	18.76	53.47	40
559	IPI:IPI00108895.1	Psmc4 26S protease regulatory subunit 6B	18.76	30.86	9
560	IPI:IPI00461469.3	Mars Methionyl-tRNA synthetase, cytoplasmic	18.75	14.08	11
561	IPI:IPI00857896.1	6430548M08Rik hypothetical protein LOC234797 isoform b	18.7	17.38	7
562	IPI:IPI00555004.3	Adh5 Alcohol dehydrogenase class-3	18.64	25.13	9
563	IPI:IPI00884460.1	Prkca protein kinase C alpha type	18.62	12.95	9
564	IPI:IPI00474959.2	Rcn2 Putative uncharacterized protein	18.57	26.2	9
565	IPI:IPI00109109.1	Sod2 Superoxide dismutase [Mn], mitochondrial	18.56	45.05	14
566	IPI:IPI00132314.1	Nucb1 Nucleobindin-1	18.55	20.04	7
567	IPI:IPI00474883.2	Capzb Capping protein (Actin filament) muscle Z-line, beta	18.45	28.9	9
568	IPI:IPI00132705.1	My12b Myosin regulatory light chain 12B	18.43	49.42	7
569	IPI:IPI00133985.1	Ruvbl1 RuvB-like 1	18.4	32.68	9

570	IPI:IPI00123494.3	Psm2 26S proteasome non-ATPase regulatory subunit 2	18.4	12.22	9
571	IPI:IPI00876005.1	- 11 kDa protein	18.37	53.85	12
572	IPI:IPI00116308.1	St13 Hsc70-interacting protein	18.36	25.34	9
573	IPI:IPI00283511.1	Pdxk Pyridoxal kinase	18.34	32.05	9
574	IPI:IPI00338515.4	Rprd1b Isoform 1 of Regulation of nuclear pre-mRNA domain-containing protein 1B	18.31	23.62	6
575	IPI:IPI00347814.2	BC085271 cDNA sequence BC085271	18.31	33.22	11
576	IPI:IPI00762897.2	Uggt1 UDP-glucose:glycoprotein glucosyltransferase 1	18.27	8.769	9
577	IPI:IPI00125971.1	Psmc6 26S protease regulatory subunit 10B	18.23	29.05	12
578	IPI:IPI00648683.3	Ap1b1 Putative uncharacterized protein	18.21	23.61	20
579	IPI:IPI00230035.7	Ddx3x ATP-dependent RNA helicase DDX3X	18.18	24.02	16
580	IPI:IPI00467057.3	Cplx4 Complexin-4	18.18	63.13	19
581	IPI:IPI00265471.2	Adsl Putative uncharacterized protein	18.17	26.45	9
582	IPI:IPI00828744.1	Krt10 Isoform 2 of Keratin, type I cytoskeletal 10	18.15	24.96	13
583	IPI:IPI00754992.1	Rpn2 Ribophorin II	18.14	20.16	9
584	IPI:IPI00132208.1	Dnaja1 DnaJ homolog subfamily A member 1	18.12	35.26	12
585	IPI:IPI00130460.1	Ndufv1 NADH dehydrogenase [ubiquinone] flavoprotein 1, mitochondrial	18.1	24.14	8
586	IPI:IPI00848492.1	LOC100045699 similar to Electron transferring flavoprotein, beta polypeptide isoform 2	18.08	32.56	9
587	IPI:IPI00830623.1	Fus 53 kDa protein	18.08	17.21	8
588	IPI:IPI00875325.1	Aco1 cytoplasmic aconitate hydratase	18.03	20.92	14
589	IPI:IPI00875924.1	Dnpep aspartyl aminopeptidase isoform b	18.02	25.37	8
590	IPI:IPI00762871.2	Atp1a2 Uncharacterized protein	18.01	40.55	93
591	IPI:IPI00129164.1	Spr sepiapterin reductase	18.01	35.88	9
592	IPI:IPI00399449.1	Nsfl1c Isoform 1 of NSFL1 cofactor p47	18	33.51	9
593	IPI:IPI00466128.3	Akr1a4 Alcohol dehydrogenase [NADP+]	18	33.51	12
594	IPI:IPI00135965.2	Ina Alpha-internexin	17.97	25.2	14
595	IPI:IPI00468900.5	Atp2a2 Isoform SERCA2A of Sarcoplasmic/endoplasmic reticulum calcium ATPase 2	17.96	23.35	34
596	IPI:IPI00125901.5	Rps13;Gm10159;Rps13-ps1;LOC100048340;LOC100044992 40S ribosomal protein S13	17.93	41.72	8
597	IPI:IPI00119203.4	Acadv1 Very long-chain specific acyl-CoA dehydrogenase, mitochondrial	17.93	25.91	11
598	IPI:IPI00322150.8	Thop1 Thimet oligopeptidase	17.92	17.76	9
599	IPI:IPI00387557.3	Actn2 alpha-actinin-2	17.88	23.94	21
600	IPI:IPI00118821.2	Pafah1b2 Platelet-activating factor acetylhydrolase IB subunit beta	17.85	24.45	6
601	IPI:IPI00130343.2	Hnrnpc Putative uncharacterized protein	17.84	33.83	14
602	IPI:IPI00225961.5	Phgdh D-3-phosphoglycerate dehydrogenase	17.78	21.2	9

603	IPI:IPI00124614.1	Epm2aip1 EPM2A-interacting protein 1	17.77	19.8	9
604	IPI:IPI00121309.2	Ndufs3 NADH dehydrogenase [ubiquinone] iron-sulfur protein 3, mitochondrial	17.71	34.22	9
605	IPI:IPI00759948.1	Gsn Isoform 2 of Gelsolin	17.61	19.02	9
606	IPI:IPI00120212.1	Ndufa9 NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 9, mitochondrial	17.57	28.38	9
607	IPI:IPI00114285.1	Gsto1 Glutathione S-transferase omega-1	17.56	31.25	16
608	IPI:IPI00109169.1	Idh3g Isocitrate dehydrogenase [NAD] subunit gamma, mitochondrial	17.48	32.57	9
609	IPI:IPI00856927.1	Rps19 Uncharacterized protein	17.43	43.48	9
610	IPI:IPI00224070.2	Arhgap1 rho GTPase-activating protein 1 isoform 1	17.43	30.27	15
611	IPI:IPI00420569.2	Atp1a2 Sodium/potassium-transporting ATPase subunit alpha-2	17.42	34.9	78
612	IPI:IPI00649886.1	Syn1 Isoform Ia of Synapsin-1	17.38	17.71	9
613	IPI:IPI00115977.1	Me2 NAD-dependent malic enzyme, mitochondrial	17.28	22.24	9
614	IPI:IPI00230084.5	Aldh7a1 Isoform 1 of Alpha-aminoadipic semialdehyde dehydrogenase	17.23	32.28	12
615	IPI:IPI00462006.3	Rpl7a-ps5 Uncharacterized protein	17.22	30.3	11
616	IPI:IPI00467383.2	Cul3 Cullin-3	17.17	9.896	7
617	IPI:IPI00112549.1	Acs1 Long-chain-fatty-acid--CoA ligase 1	17.15	13.73	8
618	IPI:IPI00330754.1	Bdh1 D-beta-hydroxybutyrate dehydrogenase, mitochondrial	17.08	21.28	9
619	IPI:IPI00137848.1	Sf3a3 Splicing factor 3A subunit 3	17.06	21.96	8
620	IPI:IPI00474281.1	Gm13910 similar to Hydroxyacyl-Coenzyme A dehydrogenase/3-ketoacyl-Coenzyme A thiolase/enoyl-Coenzyme A hydratase (trifunctional protein), beta subunit	17	24.84	9
621	IPI:IPI00223415.4	Nars Asparaginyl-tRNA synthetase, cytoplasmic	16.99	20.39	9
622	IPI:IPI00108125.4	Eif5a Eukaryotic translation initiation factor 5A-1	16.99	53.25	16
623	IPI:IPI00343557.1	Mapre3 Microtubule-associated protein RP/EB family member 3	16.96	27.4	9
624	IPI:IPI00313222.5	Rpl6 60S ribosomal protein L6	16.96	34.12	9
625	IPI:IPI00177038.1	Actr2 Actin-related protein 2	16.91	31.47	9
626	IPI:IPI00223875.1	Asrgl1 L-asparaginase	16.91	28.22	9
627	IPI:IPI00880610.1	5730469M10Rik Putative uncharacterized protein	16.72	27.07	9
628	IPI:IPI00355382.2	Wars Isoform 2 of Tryptophanyl-tRNA synthetase, cytoplasmic	16.71	20	9
629	IPI:IPI00395038.3	Xpo1 Exportin-1	16.65	10.46	9
630	IPI:IPI00134746.5	Ass1 Argininosuccinate synthase	16.62	25.97	8
631	IPI:IPI00828412.1	Rbbp4 histone-binding protein RBBP4	16.62	24.24	8
632	IPI:IPI00116222.1	Hibadh 3-hydroxyisobutyrate dehydrogenase, mitochondrial	16.61	37.61	14
633	IPI:IPI00121079.3	Cyb5r3 Isoform 1 of NADH-cytochrome b5 reductase 3	16.61	36.21	9

634	IPI:IPI00118654.2	Pdxp Pyridoxal phosphate phosphatase	16.56	38.7	8
635	IPI:IPI00858047.1	Mgll Uncharacterized protein	16.54	36.25	13
636	IPI:IPI00377731.2	6430548M08Rik Uncharacterized protein KIAA0513	16.53	22.36	9
637	IPI:IPI00853859.1	Sec31a Isoform 2 of Protein transport protein Sec31A	16.48	10.33	9
638	IPI:IPI00133428.3	Psmc1 26S protease regulatory subunit 4	16.45	26.59	9
639	IPI:IPI00227900.1	Prkaca Isoform 2 of cAMP-dependent protein kinase catalytic subunit alpha	16.39	31.49	9
640	IPI:IPI00137331.6	Cap1 Adenylyl cyclase-associated protein 1	16.38	26.37	15
641	IPI:IPI00387580.1	Add3 gamma-adducin isoform a	16.36	26.77	9
642	IPI:IPI00123140.2	Fyco1 FYVE and coiled-coil domain-containing protein 1	16.33	9.875	8
643	IPI:IPI00750262.1	Rprd1b regulation of nuclear pre-mRNA domain-containing protein 1B	16.33	30.77	9
644	IPI:IPI00153317.3	Aldh1l1 10-formyltetrahydrofolate dehydrogenase	16.29	10.31	7
645	IPI:IPI00228978.2	Cltb Isoform 1 of Clathrin light chain B	16.21	37.12	9
646	IPI:IPI00126115.1	Sfxn3 Isoform 1 of Sideroflexin-3	16.2	40.19	9
647	IPI:IPI00944688.1	Pdcd6ip programmed cell death 6-interacting protein isoform 2	16.18	15.48	9
648	IPI:IPI00227865.1	Myh11 Isoform 2 of Myosin-11	16.17	10.78	17
649	IPI:IPI00313475.1	Atp5c1 ATP synthase subunit gamma, mitochondrial	16.15	29.87	12
650	IPI:IPI00742438.1	Prkacb Isoform 3 of cAMP-dependent protein kinase catalytic subunit beta	16.14	30.09	10
651	IPI:IPI00263863.8	Hspe1 10 kDa heat shock protein, mitochondrial	16.14	67.65	9
652	IPI:IPI00830558.1	Bpnt1 Uncharacterized protein	16.12	52.57	13
653	IPI:IPI00318545.3	Bpnt1 3'(2'),5'-bisphosphate nucleotidase 1	15.95	33.77	9
654	IPI:IPI00111265.3	Capza2 F-actin-capping protein subunit alpha-2	15.93	39.51	9
655	IPI:IPI00123862.1	Ppp1cc Isoform Gamma-1 of Serine/threonine-protein phosphatase PP1-gamma catalytic subunit	15.89	30.03	9
656	IPI:IPI00283862.6	Psma1 Proteasome subunit alpha type-1	15.88	43.35	9
657	IPI:IPI00751137.1	Tomm70a Putative uncharacterized protein	15.87	14.57	7
658	IPI:IPI00857603.1	Cacna2d2 Isoform 2 of Voltage-dependent calcium channel subunit alpha-2/delta-2	15.78	8.362	8
659	IPI:IPI00420261.5	Hmgb1;Gm15387 High mobility group protein B1	15.76	41.4	12
660	IPI:IPI00110864.3	Crygf Gamma-crystallin F	15.74	57.47	27
661	IPI:IPI00114667.1	Psmd7 26S proteasome non-ATPase regulatory subunit 7	15.67	32.09	9
662	IPI:IPI00125880.1	Pacsin2 Protein kinase C and casein kinase substrate in neurons protein 2	15.66	20.99	9
663	IPI:IPI00113845.1	Psmb1 Proteasome subunit beta type-1	15.58	41.25	9
664	IPI:IPI00331710.1	Acad9 Acyl-CoA dehydrogenase family member 9, mitochondrial	15.56	20	10

665	IPI:IPI00755843.1	Set SET translocation	15.56	60.93	10
666	IPI:IPI00128522.1	Hspb1 Isoform A of Heat shock protein beta-1	15.51	48.33	9
667	IPI:IPI00121760.5	Hnrpll Isoform 1 of Heterogeneous nuclear ribonucleoprotein L-like	15.48	19.12	8
668	IPI:IPI00110885.2	Cyb5r3 Putative uncharacterized protein	15.44	26.84	8
669	IPI:IPI00753870.1	Tpd52l2 Tumor protein D52-like 2, isoform CRA_a	15.43	46.24	8
670	IPI:IPI00869430.1	Cap1 Adenylyl cyclase-associated protein	15.42	22.15	8
671	IPI:IPI00124684.1	Tsn Translin	15.4	39.47	9
672	IPI:IPI00623845.3	Selenbp1;LOC100044204 Selenium-binding protein 1	15.37	22.88	9
673	IPI:IPI00877345.1	Hpx hemopexin precursor	15.25	20.43	9
674	IPI:IPI00131315.1	Unc119 Protein unc-119 homolog A	15.25	37.92	9
675	IPI:IPI00121105.2	Hadh Hydroxyacyl-coenzyme A dehydrogenase, mitochondrial	15.21	29.3	14
676	IPI:IPI00132475.2	Lman1 Putative uncharacterized protein	15.2	21.21	9
677	IPI:IPI00466514.3	Abpd Androgen-binding protein delta	15.19	69.64	8
678	IPI:IPI00187407.4	Cops8 COP9 signalosome complex subunit 8	15.18	51.67	8
679	IPI:IPI00331163.9	Skp1a S-phase kinase-associated protein 1	15.13	47.24	8
680	IPI:IPI00884508.1	Slc2a1 solute carrier family 2, facilitated glucose transporter member 1	15.11	11.99	10
681	IPI:IPI00115627.4	Actr3 Actin-related protein 3	15.08	25.12	9
682	IPI:IPI00922962.1	Acin1 apoptotic chromatin condensation inducer 1 isoform 2	15.08	8.595	8
683	IPI:IPI00319602.3	Cnp Isoform CNPII of 2',3'-cyclic-nucleotide 3'-phosphodiesterase	15.05	17.38	7
684	IPI:IPI00229884.1	Pak2 Serine/threonine-protein kinase PAK 2	15.04	21.76	9
685	IPI:IPI00469793.3	Gnas Isoform XLas-4 of Guanine nucleotide-binding protein G(s) subunit alpha isoforms XLas	14.97	10.55	17
686	IPI:IPI00118723.3	Ppp2r4 Serine/threonine-protein phosphatase 2A activator	14.93	35.6	8
687	IPI:IPI00221825.1	Clic6 Chloride intracellular channel protein 6	14.8	23.32	9
688	IPI:IPI00135869.3	Rab11b Ras-related protein Rab-11B	14.79	41.74	9
689	IPI:IPI00928581.1	Psap sulfated glycoprotein 1 isoform D preproprotein	14.76	12.3	8
690	IPI:IPI00755892.1	Hnrpdl heterogeneous nuclear ribonucleoprotein D-like	14.76	35.88	13
691	IPI:IPI00474386.1	Add3 gamma-adducin isoform b	14.75	28.04	9
692	IPI:IPI00848818.1	Mtap4 microtubule-associated protein 4	14.68	16.71	11
693	IPI:IPI00120457.1	Fdps Farnesyl pyrophosphate synthase	14.67	24.93	8
694	IPI:IPI00928020.1	Otub1 Uncharacterized protein	14.66	29.88	8
695	IPI:IPI00154004.1	Otub1;LOC100046081 Ubiquitin thioesterase OTUB1	14.64	32.84	9
696	IPI:IPI00129105.2	Sae1 Isoform 1 of SUMO-activating enzyme subunit 1	14.62	26.86	7

697	IPI:IPI00124501.1	1110067D22Rik Galectin-related protein A	14.61	56.4	9
698	IPI:IPI00224740.6	Pfn1 Profilin-1	14.61	50.71	8
699	IPI:IPI00875943.1	Asrgl1 36 kDa protein	14.61	26.82	9
700	IPI:IPI00756786.1	Sh3glb2 SH3-domain GRB2-like endophilin B2	14.6	32.43	9
701	IPI:IPI00129512.3	Psmb4 Proteasome subunit beta type-4	14.6	45.08	8
702	IPI:IPI00453965.2	Rufy3 Isoform 3 of Protein RUFY3	14.58	16.22	8
703	IPI:IPI00956786.1	Rpl3 Putative uncharacterized protein	14.51	21.59	8
704	IPI:IPI00135640.1	Psmc5 26S protease regulatory subunit 8	14.5	25.12	8
705	IPI:IPI00874893.1	Stx1b 32 kDa protein	14.47	31.67	10
706	IPI:IPI00918997.1	Nars asparaginyl-tRNA synthetase, cytoplasmic isoform 2	14.46	20.43	9
707	IPI:IPI00828513.1	Psmc4 26S protease regulatory subunit 6B	14.44	33.25	8
708	IPI:IPI00128818.2	Dhx15 Putative pre-mRNA-splicing factor ATP-dependent RNA helicase DHX15	14.41	12.7	9
709	IPI:IPI00457661.5	Psm5 26S proteasome non-ATPase regulatory subunit 5	14.34	20.44	9
710	IPI:IPI00938457.1	Sec31a Isoform 1 of Protein transport protein Sec31A	14.29	15.79	7
711	IPI:IPI00874931.1	Fubp1 Isoform 1 of Far upstream element-binding protein 1	14.29	16.44	12
712	IPI:IPI00665513.3	Gm6636 Uncharacterized protein	14.28	41.38	9
713	IPI:IPI00406442.3	Suclg1 Succinyl-CoA ligase [GDP-forming] subunit alpha, mitochondrial	14.27	22.54	9
714	IPI:IPI00331345.5	Rps3a 40S ribosomal protein S3a	14.24	30.68	7
715	IPI:IPI00404970.2	Arhgap1 Rho GTPase-activating protein 1	14.24	27.33	13
716	IPI:IPI00761613.1	Rac1 Ras-related C3 botulinum toxin substrate 1	14.2	29.17	8
717	IPI:IPI00331146.5	Cmpk1 UMP-CMP kinase	14.18	35.24	9
718	IPI:IPI00116154.2	Cox5b;LOC100046079 cytochrome c oxidase subunit 5B, mitochondrial	14.17	44.96	10
719	IPI:IPI00466570.4	Tmed10 Isoform 1 of Transmembrane emp24 domain-containing protein 10	14.13	36.53	9
720	IPI:IPI00266899.6	Fkbp1a Peptidyl-prolyl cis-trans isomerase FKBP1A	14.09	73.15	9
721	IPI:IPI00761408.2	Lonp1 Lon protease homolog, mitochondrial	14.06	15.79	9
722	IPI:IPI00114368.3	Sec22b Vesicle-trafficking protein SEC22b	14.04	38.14	9
723	IPI:IPI00130448.1	Rho Rhodopsin	14.03	21.55	19
724	IPI:IPI00399961.2	Api5 Putative uncharacterized protein	14.03	21.56	9
725	IPI:IPI00131407.1	Psma5 Proteasome subunit alpha type-5	14.03	38.59	9
726	IPI:IPI00785410.1	Cox5b Cytochrome c oxidase subunit 5B, mitochondrial	14.01	50	9
727	IPI:IPI00655012.2	Huwe1 HECT, UBA and WWE domain containing 1	13.94	2.97	8
728	IPI:IPI00125602.1	Gng13 Guanine nucleotide-binding protein G(I)/G(S)/G(O) subunit gamma-13	13.93	71.64	8
729	IPI:IPI00653283.1	Gucy1b3 guanylate cyclase soluble subunit beta-1 isoform 2	13.93	11.49	6

730	IPI:IPI00620145.1	Kars Lysyl-tRNA synthetase	13.92	18.49	10
731	IPI:IPI00761269.2	Rufy3 Isoform 4 of Protein RUFY3	13.9	15.79	7
732	IPI:IPI00121135.5	Srsf2 Serine/arginine-rich splicing factor 2	13.84	29.41	12
733	IPI:IPI00331443.3	Farsb Putative uncharacterized protein	13.81	11.21	7
734	IPI:IPI00651782.2	Gbas glioblastoma amplified	13.81	36.3	9
735	IPI:IPI00230612.3	Gart trifunctional purine biosynthetic protein adenosine-3	13.8	15.25	9
736	IPI:IPI00127942.4	Dstn Destrin	13.66	41.21	9
737	IPI:IPI00969838.1	Usp7 Isoform 1 of Ubiquitin carboxyl-terminal hydrolase 7	13.63	11.79	8
738	IPI:IPI00223217.6	Rpl13a 60S ribosomal protein L13a	13.62	31.03	7
739	IPI:IPI00127754.1	Apbh androgen-binding protein eta precursor	13.51	63.44	9
740	IPI:IPI00453819.2	Lars Leucyl-tRNA synthetase, cytoplasmic	13.46	15.79	9
741	IPI:IPI00228693.4	2310035C23Rik Isoform 1 of LisH domain and HEAT repeat-containing protein KIAA1468	13.44	6.908	7
742	IPI:IPI00114925.1	Nans Putative uncharacterized protein	13.43	25.91	7
743	IPI:IPI00223466.2	Rgs9 regulator of G-protein signaling 9 isoform 1	13.34	15.79	7
744	IPI:IPI00775865.1	Gripap1 GRIP1 associated protein 1	13.3	15.03	7
745	IPI:IPI00221826.1	Srsf3 Isoform Short of Serine/arginine-rich splicing factor 3	13.18	45.16	7
746	IPI:IPI00654387.4	Nucb1 nucleobindin-1 isoform 2	13.16	23.3	8
747	IPI:IPI00919200.1	Rpl13a 48 kDa protein	13.15	13.95	7
748	IPI:IPI00918305.1	Ahnak2 Protein	13.1	56.93	9
749	IPI:IPI00323483.3	Pdcd6ip Isoform 3 of Programmed cell death 6-interacting protein	13.08	14.53	7
750	IPI:IPI00119575.3	Prkar1a Putative uncharacterized protein	13.07	18.61	8
751	IPI:IPI00606508.1	Gm6139 Uncharacterized protein	13.02	22.87	7
752	IPI:IPI00129323.1	Srsf3 Isoform Long of Serine/arginine-rich splicing factor 3	13	34.15	6
753	IPI:IPI00459280.2	Dcps Scavenger mRNA-decapping enzyme DcpS	12.93	27.81	9
754	IPI:IPI00317740.5	Gnb2l1 Guanine nucleotide-binding protein subunit beta-2-like 1	12.89	29.34	9
755	IPI:IPI00230003.7	Pitpna Phosphatidylinositol transfer protein alpha isoform	12.86	35.06	8
756	IPI:IPI00895479.1	2810422J05Rik 27 kDa protein	12.8	26.72	13
757	IPI:IPI00230715.5	Ndufa13 NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 13	12.78	40.28	8
758	IPI:IPI00114416.1	Dci 3,2-trans-enoyl-CoA isomerase, mitochondrial	12.76	29.41	8
759	IPI:IPI00604967.3	Rps2-ps6 Uncharacterized protein	12.68	30.18	8
760	IPI:IPI00666196.1	LOC631033 similar to lysyl-tRNA synthetase isoform 1	12.65	15.8	8
761	IPI:IPI00402778.1	Ntm Putative uncharacterized protein	12.65	25.87	7
762	IPI:IPI00660820.1	LOC633016 similar to Chromobox homolog 3 (HP1 gamma homolog, Drosophila) isoform 2	12.6	33.33	10

763	IPI:IPI00466657.4	Casq1 calsequestrin-1	12.58	27.16	8
764	IPI:IPI00648853.4	Tom1l2 Isoform 2 of TOM1-like protein 2	12.44	22.38	7
765	IPI:IPI00228253.2	Acat2 Acetyl-CoA acetyltransferase, cytosolic	12.36	34.51	9
766	IPI:IPI00626834.2	Sh3glb2 Isoform 2 of Endophilin-B2	12.36	27.75	7
767	IPI:IPI00849847.1	Gm3362 similar to ribosomal protein L23a	12.29	33.33	7
768	IPI:IPI00230751.3	Ctnna2 Isoform 2 of Catenin alpha-2	12.28	19.56	16
769	IPI:IPI00267295.5	Psmd1 26S proteasome non-ATPase regulatory subunit 1	12.28	11.65	8
770	IPI:IPI00830743.1	Srsf5 splicing factor, arginine/serine-rich 5	12.28	20.45	7
771	IPI:IPI00462899.1	Msi2 Isoform 2 of RNA-binding protein Musashi homolog 2	12.21	32.32	9
772	IPI:IPI00880852.1	Vamp2 Vesicle-associated membrane 2	12.2	25.15	21
773	IPI:IPI00114279.1	Slc1a3 Excitatory amino acid transporter 1	12.19	15.65	9
774	IPI:IPI00622833.2	Tpd52 Isoform 3 of Tumor protein D52	12.15	40.7	7
775	IPI:IPI00133708.1	D1Pas1 Putative ATP-dependent RNA helicase PI10	12.12	16.21	11
776	IPI:IPI00221456.1	Sv2b Synaptic vesicle glycoprotein 2B	12.11	9.956	9
777	IPI:IPI00230660.5	Rps15a 40S ribosomal protein S15a	12.04	35.38	9
778	IPI:IPI00606379.2	Gm5786 hypothetical protein	12.03	26.62	8
779	IPI:IPI00760000.1	Ywhab Isoform Short of 14-3-3 protein beta/alpha	12.03	66.8	39
780	IPI:IPI00117352.1	Tubb5 Tubulin beta-5 chain	12.01	77.48	228
781	IPI:IPI00227773.1	Ppp1cc Isoform Gamma-2 of Serine/threonine-protein phosphatase PP1-gamma catalytic subunit	12.01	23.15	6
782	IPI:IPI00775948.1	Rpl7 Protein	11.79	21.86	9
783	IPI:IPI00230682.6	Ywhab Isoform Long of 14-3-3 protein beta/alpha	11.78	53.25	38
784	IPI:IPI00420187.1	Eps15l1 Isoform 3 of Epidermal growth factor receptor substrate 15-like 1	11.76	18.92	9
785	IPI:IPI00222560.7	Eif4h Isoform Short of Eukaryotic translation initiation factor 4H	11.72	30.7	8
786	IPI:IPI00762269.1	Snx12 Sorting nexin-12	11.69	32.73	8
787	IPI:IPI00875096.1	Krt2 71 kDa protein	11.6	7.133	6
788	IPI:IPI00752501.2	Slc4a10 Isoform 1 of Sodium-driven chloride bicarbonate exchanger	11.57	6.708	8
789	IPI:IPI00312058.5	Cat Catalase	11.32	15.37	7
790	IPI:IPI00403040.5	Ldb3 LIM domain-binding protein 3 isoform c	11.26	15.17	6
791	IPI:IPI00463909.3	Huwe1 E3 ubiquitin-protein ligase HUWE1	11.25	3.609	10
792	IPI:IPI00650037.2	Dnajc6 Isoform 2 of Putative tyrosine-protein phosphatase auxilin	11.19	14.33	9
793	IPI:IPI00877355.1	Snx12 sorting nexin-12 isoform 1	11.17	35.19	6
794	IPI:IPI00944734.1	Ctnna2 Isoform 3 of Catenin alpha-2	11.05	16.78	13
795	IPI:IPI00776341.2	Cask Isoform 3 of Peripheral plasma membrane protein CASK	11.02	8.807	7
796	IPI:IPI00177211.5	Impg2 Isoform 2 of Interphotoreceptor matrix proteoglycan 2	11.02	8.995	7

797	IPI:IPI00127408.3	Rac1 RAS-related C3 botulinum substrate 1, isoform CRA_a	10.96	25.12	9
798	IPI:IPI00742433.1	Hnrnpul1 Isoform 2 of Heterogeneous nuclear ribonucleoprotein U-like protein 1	10.9	14.36	9
799	IPI:IPI00970708.1	Pcmt1 29 kDa protein	10.86	35.06	8
800	IPI:IPI00136169.1	Pabpn1 Isoform 1 of Polyadenylate-binding protein 2	10.82	38.74	8
801	IPI:IPI00762081.1	Rufy3 Isoform 2 of Protein RUFY3	10.82	11.51	7
802	IPI:IPI00749991.5	Ptbp1 Polypyrimidine tract-binding protein 1	10.81	30.74	9
803	IPI:IPI00889887.1	Dct L-dopachrome tautomerase precursor	10.8	12.96	6
804	IPI:IPI00881225.1	Tpd52 Uncharacterized protein	10.74	34.47	9
805	IPI:IPI00227302.6	Slc4a10 Solute carrier family 4, sodium bicarbonate cotransporter-like, member 10	10.74	6.781	8
806	IPI:IPI00752419.3	Tln2 Tln2 protein	10.71	5.462	8
807	IPI:IPI00776047.1	Aifm1 Apoptosis-inducing factor, mitochondrion-associated 1	10.59	17.76	8
808	IPI:IPI00124742.3	Eif4h Isoform Long of Eukaryotic translation initiation factor 4H	10.51	32.26	7
809	IPI:IPI00798492.2	Krt10 Isoform 1 of Keratin, type I cytoskeletal 10	10.49	16.14	11
810	IPI:IPI00653566.1	Acot2 acyl-coenzyme A thioesterase 2, mitochondrial precursor	10.46	18.1	5
811	IPI:IPI00133006.1	Ndufab1 Acyl carrier protein, mitochondrial	10.43	33.97	10
812	IPI:IPI00857485.1	Pafah1b3 Uncharacterized protein	10.3	43.33	8
813	IPI:IPI00230588.1	Acot7 Isoform C of Cytosolic acyl coenzyme A thioester hydrolase	10.3	20.29	5
814	IPI:IPI00475154.1	Rpn2 Dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit 2	10.25	14.74	5
815	IPI:IPI00463344.5	Dnajc8 Uncharacterized protein	10.15	27.65	5
816	IPI:IPI00265239.1	LOC100045925;Gm10108 similar to cytochrome c	10.07	41.9	7
817	IPI:IPI00828628.2	Rps8 40S ribosomal protein S8	10.05	28.37	6
818	IPI:IPI00649391.2	Stoml2 Stomatolysin (Epb7.2)-like 2	10.04	29.97	5
819	IPI:IPI00648539.2	Dnajc8 DnaJ (Hsp40) homolog, subfamily C, member 8	10.04	25.4	5
820	IPI:IPI00649778.1	Camk2b Calcium/calmodulin-dependent protein kinase II, beta, isoform CRA_b	10	21.62	14
821	IPI:IPI00857267.1	Cacna2d2 Isoform 3 of Voltage-dependent calcium channel subunit alpha-2/delta-2	10	5.45	5
822	IPI:IPI00404837.3	Myh4 Myosin-4	9.99	5.776	7
823	IPI:IPI00132942.1	Nudc Nuclear migration protein nudC	9.98	31.02	9
824	IPI:IPI00122350.4	Snrpa U1 small nuclear ribonucleoprotein A	9.98	34.49	9
825	IPI:IPI00621548.2	Por NADPH--cytochrome P450 reductase	9.97	19.32	9
826	IPI:IPI00329927.4	Nfasc Neurofascin	9.96	6.935	8
827	IPI:IPI00128760.1	Ube2l3 Ubiquitin-conjugating enzyme E2 L3	9.96	57.79	8
828	IPI:IPI00315488.1	Rars Arginyl-tRNA synthetase, cytoplasmic	9.95	13.33	8

829	IPI:IPI00480507.1	Prpf19 Isoform 1 of Pre-mRNA-processing factor 19	9.94	31.15	9
830	IPI:IPI00652811.1	Anxa1 Putative uncharacterized protein	9.94	21.69	7
831	IPI:IPI00228059.4	Pgm2l1 Glucose 1,6-bisphosphate synthase	9.93	13.53	9
832	IPI:IPI00223757.4	Akr1b3 Aldose reductase	9.93	21.52	9
833	IPI:IPI00109860.3	Rbm8a Isoform 2 of RNA-binding protein 8A	9.92	45.09	6
834	IPI:IPI00775913.1	Apoa4 apolipoprotein A-IV precursor	9.9	25.57	8
835	IPI:IPI00625588.1	Gm9755 Elongation factor Tu	9.9	13.5	5
836	IPI:IPI00551236.3	Stmn1 Stathmin	9.9	43.14	8
837	IPI:IPI00109311.3	Slc9a3r1 Isoform 1 of Na(+)/H(+) exchange regulatory cofactor NHE-RF1	9.89	27.89	9
838	IPI:IPI00224109.2	Hsph1 Isoform HSP105-beta of Heat shock protein 105 kDa	9.89	13.02	9
839	IPI:IPI00123190.1	Adssl1 Isoform 1 of Adenylosuccinate synthetase isozyme 1	9.89	16.85	7
840	IPI:IPI00757611.1	Dnajc8 DnaJ homolog subfamily C member 8	9.89	32.02	5
841	IPI:IPI00225306.2	Slc4a7 Isoform 1 of Sodium bicarbonate cotransporter 3	9.88	7.737	6
842	IPI:IPI00230011.3	Rab6 Isoform 2 of Ras-related protein Rab-6A	9.88	37.02	7
843	IPI:IPI00474430.1	Srsf2 Putative uncharacterized protein	9.86	25.59	8
844	IPI:IPI00661414.2	Arpc2 Actin-related protein 2/3 complex subunit 2	9.85	26	7
845	IPI:IPI00454001.4	Sarm1 Isoform 3 of Sterile alpha and TIR motif-containing protein 1	9.85	10.99	6
846	IPI:IPI00126072.2	Vat1 Synaptic vesicle membrane protein VAT-1 homolog	9.85	21.67	8
847	IPI:IPI00830393.1	Cops6 Uncharacterized protein	9.85	25.93	5
848	IPI:IPI00267855.4	Gripap1 GRIP1-associated protein 1	9.85	7.692	5
849	IPI:IPI00890001.1	Psma2 Proteasome subunit alpha type-2	9.84	38.46	8
850	IPI:IPI00225390.5	Cox6b1 Cytochrome c oxidase subunit 6B1	9.84	61.63	9
851	IPI:IPI00221566.3	Htatsf1 Isoform 1 of HIV Tat-specific factor 1 homolog	9.84	11.36	8
852	IPI:IPI00111501.1	Cplx2 Complexin-2	9.84	48.51	9
853	IPI:IPI00125091.1	Lasp1 LIM and SH3 domain protein 1	9.84	22.43	6
854	IPI:IPI00230113.5	Cyb5 Cytochrome b5	9.84	47.76	5
855	IPI:IPI00890139.1	Eps15l1 epidermal growth factor receptor substrate 15-like 1 isoform a	9.84	12.68	6
856	IPI:IPI00930846.1	Tcea1 transcription elongation factor A protein 1 isoform 3	9.84	29.67	7
857	IPI:IPI00849927.1	Rpl10a;Rpl10a-ps1 60S ribosomal protein L10a	9.83	23.96	8
858	IPI:IPI00757771.1	Nptn Isoform 2 of Neuroplastin	9.82	18.89	7
859	IPI:IPI00170093.3	Ndufs8 NADH dehydrogenase [ubiquinone] iron-sulfur protein 8, mitochondrial	9.82	20.28	7
860	IPI:IPI00109275.1	Slc25a22 Mitochondrial glutamate carrier 1	9.81	29.41	9
861	IPI:IPI00113746.3	U2af2 Splicing factor U2AF 65 kDa subunit	9.8	29.26	9

862	IPI:IPI00848900.1	Gm12034 similar to ribosomal protein S17	9.8	48.55	9
863	IPI:IPI00118819.1	Pafah1b3 Platelet-activating factor acetylhydrolase IB subunit gamma	9.8	33.62	8
864	IPI:IPI00672508.1	Acot7 Isoform D of Cytosolic acyl coenzyme A thioester hydrolase	9.8	19.79	6
865	IPI:IPI00653921.2	Rdx radixin isoform a	9.8	19.21	14
866	IPI:IPI00750657.1	LOC100045439 similar to testis-specific adriamycin sensitivity protein	9.8	22.56	5
867	IPI:IPI00321718.4	Phb2 Prohibitin-2	9.79	35.12	9
868	IPI:IPI00875723.1	Camk2b 68 kDa protein	9.79	28.06	18
869	IPI:IPI00126716.3	Eif4a3 Eukaryotic initiation factor 4A-III	9.79	31.39	13
870	IPI:IPI00119111.2	Cnn3 Calponin-3	9.78	34.85	9
871	IPI:IPI00554868.2	Prps1 Ribose-phosphate pyrophosphokinase 1	9.78	23.9	6
872	IPI:IPI00226872.1	Efh2 Putative uncharacterized protein	9.77	29.58	7
873	IPI:IPI00230706.5	Pgam2 Phosphoglycerate mutase 2	9.77	69.17	28
874	IPI:IPI00117350.1	Tuba4a Tubulin alpha-4A chain	9.77	64.96	142
875	IPI:IPI00469307.2	Lrpap1 Alpha-2-macroglobulin receptor-associated protein	9.76	26.67	8
876	IPI:IPI00127930.1	Gnb5 Isoform 1 of Guanine nucleotide-binding protein subunit beta-5	9.76	20.51	7
877	IPI:IPI00331692.1	Dci 3,2-trans-enoyl-CoA isomerase, mitochondrial precursor	9.76	20.76	6
878	IPI:IPI00137831.1	Rcn1 Reticulocalbin-1	9.75	28.92	8
879	IPI:IPI00132093.1	Pin1 Peptidyl-prolyl cis-trans isomerase NIMA-interacting 1	9.75	53.33	7
880	IPI:IPI00454016.5	Mat2a S-adenosylmethionine synthase isoform type-2	9.73	17.47	6
881	IPI:IPI00648915.1	Aarsd1 Alanyl-tRNA synthetase domain containing 1	9.72	13.52	5
882	IPI:IPI00230193.7	Gnaz Guanine nucleotide-binding protein G(z) subunit alpha	9.71	27.32	8
883	IPI:IPI00798527.1	Tnpo1 Isoform 2 of Transportin-1	9.69	10.22	9
884	IPI:IPI00135686.2	Ppib Peptidyl-prolyl cis-trans isomerase B	9.69	28.24	6
885	IPI:IPI00283761.1	Sfxn5 Putative uncharacterized protein	9.68	29.47	7
886	IPI:IPI00678003.1	Itpa Inosine triphosphate pyrophosphatase	9.67	38.38	5
887	IPI:IPI00226727.4	Dlg2 Isoform 2 of Disks large homolog 2	9.67	13.91	9
888	IPI:IPI00331327.3	Hars histidyl-tRNA synthetase, cytoplasmic	9.67	15.52	6
889	IPI:IPI00153950.1	Prpsap2 Phosphoribosyl pyrophosphate synthase-associated protein 2	9.64	30.08	8
890	IPI:IPI00221998.4	2310001A20Rik Adipocyte plasma membrane-associated protein	9.64	19.28	5
891	IPI:IPI00473680.2	Tmed9 Putative uncharacterized protein	9.64	26.77	7
892	IPI:IPI00269408.1	Snap47 Isoform 1 of Synaptosomal-associated protein 47	9.64	17.43	5

893	IPI:IPI00154047.1	Hibch 3-hydroxyisobutyryl-CoA hydrolase, mitochondrial	9.64	20.78	7
894	IPI:IPI00321266.5	Pspc1 Isoform 1 of Paraspeckle component 1	9.63	14.53	6
895	IPI:IPI00170008.1	Snrpa1 U2 small nuclear ribonucleoprotein A'	9.63	25.1	6
896	IPI:IPI00928007.1	Myo5a Uncharacterized protein	9.62	5.142	8
897	IPI:IPI00109823.5	Gbe1 1,4-alpha-glucan-branching enzyme	9.62	12.54	7
898	IPI:IPI00108454.2	Rps6-ps1 Uncharacterized protein	9.62	23.69	9
899	IPI:IPI00134058.3	Erp44 Endoplasmic reticulum resident protein 44	9.62	23.4	7
900	IPI:IPI00320462.4	Bph1 Putative uncharacterized protein	9.61	21.4	5
901	IPI:IPI00320208.3	Eef1b2 Elongation factor 1-beta	9.61	28.44	9
902	IPI:IPI00323644.4	Gart Isoform Long of Trifunctional purine biosynthetic protein adenosine-3	9.6	10.69	7
903	IPI:IPI00387245.1	Apeh Isoform 1 of Acylamino-acid-releasing enzyme	9.6	9.836	5
904	IPI:IPI00122265.1	Sh3bgr1 SH3 domain-binding glutamic acid-rich-like protein	9.6	58.77	5
905	IPI:IPI00111149.1	Adprh [Protein ADP-ribosylarginine] hydrolase	9.59	22.65	9
906	IPI:IPI00112555.3	Gars Glycyl-tRNA synthetase	9.58	10.15	8
907	IPI:IPI00115833.2	Mtap6 Isoform 1 of Microtubule-associated protein 6	9.58	11.26	6
908	IPI:IPI00880213.1	Gm15427 ribosomal protein L18A family member	9.57	21.47	5
909	IPI:IPI00123223.2	Mug1 Murinoglobulin-1	9.57	7.385	9
910	IPI:IPI00323800.6	Nefm Neurofilament medium polypeptide	9.56	11.08	8
911	IPI:IPI00121288.5	Ndufb10 NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 10	9.55	38.64	6
912	IPI:IPI00123518.1	Lypla2 Acyl-protein thioesterase 2	9.54	44.59	9
913	IPI:IPI00410886.2	Luc7l2 putative RNA-binding protein Luc7-like 2 isoform 2	9.54	17.54	8
914	IPI:IPI00122486.3	Camkv CaM kinase-like vesicle-associated protein	9.54	15.23	7
915	IPI:IPI00881287.1	Fkbp8 Isoform 2 of Peptidyl-prolyl cis-trans isomerase FKBP8	9.54	20.35	5
916	IPI:IPI00755495.2	Gm12034 similar to ribosomal protein S17	9.54	48.55	6
917	IPI:IPI00751759.1	Ptbp2 Isoform 1 of Polypyrimidine tract-binding protein 2	9.52	24.86	9
918	IPI:IPI00122974.1	Gpm6a Neuronal membrane glycoprotein M6-a	9.52	20.14	7
919	IPI:IPI00311369.1	Uchl3 Ubiquitin carboxyl-terminal hydrolase isozyme L3	9.52	36.09	7
920	IPI:IPI00453622.2	Uba3 NEDD8-activating enzyme E1 catalytic subunit isoform 1	9.52	11.04	6
921	IPI:IPI00929837.1	Hgs hepatocyte growth factor-regulated tyrosine kinase substrate isoform 1	9.52	10.04	7
922	IPI:IPI00126501.1	Car14 Carbonic anhydrase 14	9.51	28.19	8
923	IPI:IPI00111770.7	Atp5k ATP synthase subunit e, mitochondrial	9.51	69.01	7
924	IPI:IPI00463193.2	Gm5938 Novel protein similar to odorant binding	9.51	55.21	9

		protein Ia Obp1a			
925	IPI:IPI00410819.3	Ddost Putative uncharacterized protein	9.51	14.51	6
926	IPI:IPI00124245.1	G3bp2 Isoform A of Ras GTPase-activating protein-binding protein 2	9.5	19.92	8
927	IPI:IPI00114801.2	Inpp1 Inositol polyphosphate 1-phosphatase	9.5	21.97	8
928	IPI:IPI00137758.5	Scrn3 Secernin-3	9.49	17.46	7
929	IPI:IPI00622704.3	2310035C23Rik Isoform 2 of LisH domain and HEAT repeat-containing protein KIAA1468	9.49	6.46	5
930	IPI:IPI00126083.3	Ehd1 EH domain-containing protein 1	9.47	15.54	7
931	IPI:IPI00555113.2	Rpl18 60S ribosomal protein L18	9.47	27.66	6
932	IPI:IPI00311493.5	Krt18 Keratin, type I cytoskeletal 18	9.47	11.58	5
933	IPI:IPI00475378.4	Ptbp1 polypyrimidine tract-binding protein 1 isoform 1	9.46	29.19	9
934	IPI:IPI00125929.2	Ndufa4 NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 4	9.46	56.1	8
935	IPI:IPI00284444.5	Cdc5l Cell division cycle 5-related protein	9.46	9.601	5
936	IPI:IPI00230124.5	Fabp3 Fatty acid-binding protein, heart	9.45	48.12	9
937	IPI:IPI00881629.1	Vps29 Uncharacterized protein	9.45	38.89	5
938	IPI:IPI00115117.1	Stoml2 Stomatin-like protein 2	9.45	32.29	7
939	IPI:IPI00407954.2	Rap1b;LOC100048397 Ras-related protein Rap-1b	9.44	44.02	9
940	IPI:IPI00132734.1	Dynll2 Dynein light chain 2, cytoplasmic	9.44	56.18	9
941	IPI:IPI00407909.1	Gm5580 similar to Chain C, Structure Of The Human Exon Junction Complex With A Trapped Dead-Box Helicase Bound To Rna	9.44	26.28	8
942	IPI:IPI00108143.1	Hnrnp2 Heterogeneous nuclear ribonucleoprotein H2	9.43	40.76	24
943	IPI:IPI00117087.1	Cdc37 Hsp90 co-chaperone Cdc37	9.42	25.07	7
944	IPI:IPI00131204.1	Ugp2 Isoform 1 of UTP--glucose-1-phosphate uridylyltransferase	9.42	18.7	9
945	IPI:IPI00129466.1	LOC100047028;Cbx1 Chromobox protein homolog 1	9.42	38.38	9
946	IPI:IPI00314316.3	Mpp6 Isoform Alpha of MAGUK p55 subfamily member 6	9.41	17.25	9
947	IPI:IPI00224505.7	Rpl13;Gm15710;Gm12918 60S ribosomal protein L13	9.41	22.75	6
948	IPI:IPI00407944.2	Epn1 Isoform 1 of Epsin-1	9.41	14.78	6
949	IPI:IPI00624501.2	Asna1 ATPase Asna1	9.4	26.72	8
950	IPI:IPI00321617.1	Ephx2 Isoform 1 of Epoxide hydrolase 2	9.39	18.77	8
951	IPI:IPI00473728.1	Rpl14 Putative uncharacterized protein	9.39	24.23	6
952	IPI:IPI00869393.1	Cat catalase	9.38	20.49	9
953	IPI:IPI00118930.1	Napa Alpha-soluble NSF attachment protein	9.37	27.12	8
954	IPI:IPI00131224.1	Tceb2 Transcription elongation factor B polypeptide 2	9.37	66.95	7
955	IPI:IPI00125266.1	Asah1 Acid ceramidase	9.37	17.51	6

956	IPI:IPI00133185.3	Rpl14 60S ribosomal protein L14	9.37	25.35	5
957	IPI:IPI00885560.1	Hnrnp3 Uncharacterized protein	9.36	40.48	15
958	IPI:IPI00461286.1	Ppm1e Protein phosphatase 1E	9.35	12.55	7
959	IPI:IPI00129685.3	Tpt1;Gm14456 Translationally-controlled tumor protein	9.35	54.65	8
960	IPI:IPI00459279.2	Qdpr Dihydropteridine reductase	9.33	37.76	7
961	IPI:IPI00119063.2	Lrp1 Prolow-density lipoprotein receptor-related protein 1	9.33	2.706	8
962	IPI:IPI00848593.1	LOC100045659 similar to hCG1640785	9.33	33.94	5
963	IPI:IPI00312172.5	Vps4a Vacuolar protein sorting-associated protein 4A	9.32	17.16	6
964	IPI:IPI00128346.1	Cisd1 CDGSH iron-sulfur domain-containing protein 1	9.32	44.44	7
965	IPI:IPI00308938.6	Capn2 Calpain-2 catalytic subunit	9.32	9.857	5
966	IPI:IPI00555118.4	Slc4a10 Isoform 2 of Sodium-driven chloride bicarbonate exchanger	9.31	5.882	7
967	IPI:IPI00133706.1	Rab1b Ras-related protein Rab-1B	9.31	53.73	22
968	IPI:IPI00624663.3	Pzp Uncharacterized protein	9.31	8.427	8
969	IPI:IPI00132575.3	Cotl1 Coactosin-like protein	9.3	51.41	7
970	IPI:IPI00807833.2	Madd Isoform 3 of MAP kinase-activating death domain protein	9.3	6.354	9
971	IPI:IPI00968372.1	Gps1 COP9 signalosome complex subunit 1 isoform 2	9.3	15.61	8
972	IPI:IPI00139994.1	Nup62 Nuclear pore glycoprotein p62	9.3	18.44	6
973	IPI:IPI00111315.1	Apoa2 Apolipoprotein A-II	9.29	63.73	9
974	IPI:IPI00137194.1	Slc16a1 Monocarboxylate transporter 1	9.29	13.39	5
975	IPI:IPI00113536.3	Anp32b Isoform 2 of Acidic leucine-rich nuclear phosphoprotein 32 family member B	9.28	26.14	15
976	IPI:IPI00131845.1	Psma6 Proteasome subunit alpha type-6	9.28	32.11	7
977	IPI:IPI00410858.2	Pabpn1 Isoform 2 of Polyadenylate-binding protein 2	9.28	35.96	7
978	IPI:IPI00461964.3	Aldh6a1 Methylmalonate-semialdehyde dehydrogenase [acylating], mitochondrial	9.27	26.73	9
979	IPI:IPI00121218.5	Fahd2a Fumarylacetoacetate hydrolase domain-containing protein 2A	9.27	34.19	6
980	IPI:IPI00130353.5	Vars Valyl-tRNA synthetase	9.27	6.334	5
981	IPI:IPI00759967.1	B020018G12Rik hypothetical protein LOC545388	9.27	44.83	6
982	IPI:IPI00465788.4	Sgip1 Isoform 1 of SH3-containing GRB2-like protein 3-interacting protein 1	9.26	10.42	5
983	IPI:IPI00880411.1	Tfg Trk-fused gene	9.25	32.24	9
984	IPI:IPI00121949.1	Lancl2 LanC-like protein 2	9.25	19.56	5
985	IPI:IPI00133562.1	Chchd3 Coiled-coil-helix-coiled-coil-helix domain-containing protein 3, mitochondrial	9.25	24.23	6
986	IPI:IPI00133284.1	D10Jhu81e;LOC100046684 ES1 protein homolog, mitochondrial	9.23	50.38	17

987	IPI:IPI00229534.5	Marcks Myristoylated alanine-rich C-kinase substrate	9.23	44.01	7
988	IPI:IPI00421223.3	Tpm4 Tropomyosin alpha-4 chain	9.22	31.85	7
989	IPI:IPI00223372.2	Rbm39 RNA binding motif protein 39	9.22	15.46	8
990	IPI:IPI00224219.1	Scfd1 Isoform 1 of Sec1 family domain-containing protein 1	9.22	13.3	5
991	IPI:IPI00943394.1	Rtcd1 RNA 3'-terminal phosphate cyclase	9.22	17.21	5
992	IPI:IPI00123058.1	Cntn1 Contactin-1	9.21	8.137	5
993	IPI:IPI00876257.1	Clta 26 kDa protein	9.2	20.51	8
994	IPI:IPI00126048.2	Psmd13 26S proteasome non-ATPase regulatory subunit 13	9.2	17.55	6
995	IPI:IPI00119219.2	Hsd17b12 Isoform 1 of Estradiol 17-beta-dehydrogenase 12	9.2	17.95	6
996	IPI:IPI00338880.3	Nrcam Isoform 2 of Neuronal cell adhesion molecule	9.19	9.781	7
997	IPI:IPI00121013.1	Pea15a Isoform 1 of Astrocytic phosphoprotein PEA-15	9.19	48.46	9
998	IPI:IPI00129577.1	Aifm1 Apoptosis-inducing factor 1, mitochondrial	9.19	17.65	8
999	IPI:IPI00314950.2	Rplp0 60S acidic ribosomal protein P0	9.19	29.34	6
1000	IPI:IPI00131870.3	Cops3 COP9 signalosome complex subunit 3	9.18	22.93	7
1001	IPI:IPI00115454.3	Sfxn1 Sideroflexin-1	9.17	25.78	7
1002	IPI:IPI00354363.3	Rpl7a-ps10 Uncharacterized protein	9.16	20.68	7
1003	IPI:IPI00122392.1	Myg1 UPF0160 protein MYG1, mitochondrial	9.14	20	5
1004	IPI:IPI00758106.1	Gm7808 similar to ubiquitin A-52 residue ribosomal protein fusion product 1	9.14	48.44	13
1005	IPI:IPI00466581.4	Sgip1 Gag protein	9.13	16.55	7
1006	IPI:IPI00453499.3	Iars2 Isoleucyl-tRNA synthetase, mitochondrial	9.13	9.387	9
1007	IPI:IPI00113134.1	Skiv2l2 Superkiller viralicidic activity 2-like 2	9.13	7.115	6
1008	IPI:IPI00395193.1	Rtn1 Reticulon-1	9.11	11.54	8
1009	IPI:IPI00224518.2	Rab5c Ras-related protein Rab-5C	9.11	48.15	7
1010	IPI:IPI00225533.1	Necap1 Adaptin ear-binding coat-associated protein 1	9.11	26.55	6
1011	IPI:IPI00911151.1	Nucb2 nucleobindin-2 isoform 2	9.11	14.05	5
1012	IPI:IPI00319965.3	Psmd6 26S proteasome non-ATPase regulatory subunit 6	9.11	12.34	6
1013	IPI:IPI00469531.3	Myl1 Isoform MLC3 of Myosin light chain 1/3, skeletal muscle isoform	9.1	48.67	6
1014	IPI:IPI00754418.1	Api5 Apoptosis inhibitor 5	9.1	16.47	6
1015	IPI:IPI00608077.3	Myh14 Isoform 2 of Myosin-14	9.09	12.15	18
1016	IPI:IPI00109073.5	Tubb4 Tubulin beta-4 chain	9.09	75.68	202
1017	IPI:IPI00119667.1	Eef1a2 Elongation factor 1-alpha 2	9.09	39.31	26
1018	IPI:IPI00133110.1	Txndc12 Thioredoxin domain-containing protein 12	9.09	36.47	6
1019	IPI:IPI00221831.1	Slc32a1 Isoform 2 of Vesicular inhibitory amino	9.09	13.44	8

		acid transporter			
1020	IPI:IPI00131176.1	mt-Co2 Cytochrome c oxidase subunit 2	9.09	20.7	9
1021	IPI:IPI00132194.3	Aimp1 aminoacyl tRNA synthetase complex-interacting multifunctional protein 1	9.08	38.24	9
1022	IPI:IPI00316479.7	Ptpn11 Isoform 2 of Tyrosine-protein phosphatase non-receptor type 11	9.08	17.37	8
1023	IPI:IPI00408909.4	Mtap1a Isoform 1 of Microtubule-associated protein 1A	9.08	3.927	8
1024	IPI:IPI00124973.1	Kpna2;Gm10184;Gm10259 Importin subunit alpha-2	9.08	14.93	5
1025	IPI:IPI00315452.5	Pnp Purine nucleoside phosphorylase	9.08	31.83	6
1026	IPI:IPI00137787.3	Rpl8 60S ribosomal protein L8	9.08	23.74	5
1027	IPI:IPI00125960.1	Ndrp1 Protein NDRG1	9.07	21.83	9
1028	IPI:IPI00228618.5	Gnaq Guanine nucleotide-binding protein G(q) subunit alpha	9.07	22.56	8
1029	IPI:IPI00131211.1	Cnga1 cGMP-gated cation channel alpha-1	9.06	11.11	8
1030	IPI:IPI00463891.1	Gnas Isoform Gnas-2 of Guanine nucleotide-binding protein G(s) subunit alpha isoforms short	9.06	31.58	19
1031	IPI:IPI00278804.1	Scamp1 Secretory carrier-associated membrane protein 1	9.04	26.63	6
1032	IPI:IPI00111876.2	Abhd14b Abhydrolase domain-containing protein 14B	9.04	37.14	8
1033	IPI:IPI00282848.1	Hist1h3c;Hist2h3c1;Hist1h3f;Hist1h3b;Hist1h3e;Hist2h3c2-ps;Hist2h3b;Hist1h3d histone H3.2	9.04	30.15	5
1034	IPI:IPI00132531.1	Ndufb5 NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 5, mitochondrial	9.04	21.69	5
1035	IPI:IPI00136936.1	Vps29 Isoform 1 of Vacuolar protein sorting-associated protein 29	9.04	25.82	6
1036	IPI:IPI00845528.1	Ogt Isoform 2 of UDP-N-acetylglucosamine--peptide N-acetylglucosaminyltransferase 110 kDa subunit	9.03	10.23	7
1037	IPI:IPI00121341.1	Tmx1 Thioredoxin-related transmembrane protein 1	9.03	12.59	8
1038	IPI:IPI00915054.1	Rpl10 Putative uncharacterized protein	9.03	31.31	5
1039	IPI:IPI00351252.4	Gmps GMP synthase [glutamine-hydrolyzing]	9.02	24.68	9
1040	IPI:IPI00132539.3	Btf3l4 Transcription factor BTF3 homolog 4	9.01	68.35	9
1041	IPI:IPI00655156.3	Ccdc109a Isoform 1 of Coiled-coil domain-containing protein 109A	9.01	18.86	5
1042	IPI:IPI00165849.3	Isoc1 Isochorismatase domain-containing protein 1	9.01	25.25	5
1043	IPI:IPI00111416.1	Stx12 Syntaxin-12	9	36.86	7
1044	IPI:IPI00315225.7	Dynlrb1 Dynein light chain roadblock-type 1	9	60.42	9
1045	IPI:IPI00775783.1	C1qbp Complement component 1 Q subcomponent-binding protein, mitochondrial	9	31.9	7
1046	IPI:IPI00798439.1	Lta4h leukotriene A-4 hydrolase	8.99	12.44	6
1047	IPI:IPI00329839.7	Ddx42 Isoform 1 of ATP-dependent RNA helicase	8.99	8.181	6

		DDX42			
1048	IPI:IPI00129516.1	Uqcrrh Cytochrome b-c1 complex subunit 6, mitochondrial	8.98	66.29	9
1049	IPI:IPI00900426.1	Pcp2 purkinje cell protein 2 isoform 1	8.98	55.88	5
1050	IPI:IPI00114407.2	Thoc4 Isoform 1 of THO complex subunit 4	8.98	30.59	6
1051	IPI:IPI00116938.1	Gnb3 Guanine nucleotide-binding protein G(I)/G(S)/G(T) subunit beta-3	8.98	32.94	16
1052	IPI:IPI00173156.1	Lzic Protein LZIC	8.97	36.32	5
1053	IPI:IPI00128945.1	Psmb2 Proteasome subunit beta type-2	8.97	27.86	7
1054	IPI:IPI00115644.2	Sar1a Putative uncharacterized protein	8.97	30.81	7
1055	IPI:IPI00135087.3	Cops5 COP9 signalosome complex subunit 5	8.96	18.26	7
1056	IPI:IPI00222767.1	Pdhx Pyruvate dehydrogenase protein X component, mitochondrial	8.96	11.98	5
1057	IPI:IPI00404235.2	LOC100047867 similar to mammary-derived growth inhibitor	8.96	42.86	7
1058	IPI:IPI00756275.2	Plxnb2 MKIAA0315 protein	8.95	4.818	5
1059	IPI:IPI00409817.2	Myl6 Isoform Non-muscle of Myosin light polypeptide 6	8.94	49.67	9
1060	IPI:IPI00911165.1	Gspt1 eukaryotic peptide chain release factor GTP-binding subunit ERF3A isoform 2	8.93	12.6	6
1061	IPI:IPI00877244.1	Kif1a kinesin-like protein KIF1A isoform b	8.93	5.506	6
1062	IPI:IPI00856249.1	Kng1 Uncharacterized protein	8.93	13.02	5
1063	IPI:IPI00415908.4	Ppme1 Protein phosphatase methylesterase 1	8.92	24.87	9
1064	IPI:IPI00918916.1	Eif2c2 protein argonaute-2	8.92	12.21	8
1065	IPI:IPI00307991.1	Crk Isoform Crk-II of Adapter molecule crk	8.92	23.36	5
1066	IPI:IPI00469103.1	Kars lysyl-tRNA synthetase isoform 1	8.92	13.62	7
1067	IPI:IPI00330269.3	Dnajc6 Isoform 1 of Putative tyrosine-protein phosphatase auxilin	8.92	10.55	5
1068	IPI:IPI00112536.1	Scrn1 Secernin-1	8.9	16.18	5
1069	IPI:IPI00120374.1	Ppp2ca Serine/threonine-protein phosphatase 2A catalytic subunit alpha isoform	8.89	27.83	7
1070	IPI:IPI00114380.1	Gstm5 Glutathione S-transferase Mu 5	8.89	29.02	7
1071	IPI:IPI00918685.1	Ube2v1 Ubiquitin-conjugating enzyme E2 variant 1	8.89	46.82	8
1072	IPI:IPI00131177.1	Letm1 LETM1 and EF-hand domain-containing protein 1, mitochondrial	8.89	9.892	6
1073	IPI:IPI00125923.1	Ostf1 Osteoclast-stimulating factor 1	8.89	34.88	5
1074	IPI:IPI00453615.3	Huwe1 Isoform 4 of E3 ubiquitin-protein ligase HUWE1	8.88	3.053	8
1075	IPI:IPI00752080.1	Itgav Integrin alpha V	8.88	5.655	5
1076	IPI:IPI00119024.3	Arl6ip5 PRA1 family protein 3	8.88	20.21	7
1077	IPI:IPI00626366.3	Gm8730 similar to Acidic ribosomal phosphoprotein P0	8.87	24.92	5
1078	IPI:IPI00319973.3	Pgrmc1 Membrane-associated progesterone receptor component 1	8.87	36.92	8

1079	IPI:IPI00123557.3	Ruvbl2 RuvB-like 2	8.87	18.79	8
1080	IPI:IPI00132799.4	C1qbp complement component 1 Q subcomponent-binding protein, mitochondrial	8.87	31.9	7
1081	IPI:IPI00122421.5	Rpl27;Rpl27-ps3;Gm11518 60S ribosomal protein L27	8.87	43.38	8
1082	IPI:IPI00133163.3	Atp6v1g1 V-type proton ATPase subunit G 1	8.87	39.83	6
1083	IPI:IPI00947625.1	Ptges2 prostaglandin E synthase 2	8.86	23.7	7
1084	IPI:IPI00776018.2	Dync1i2 Cytoplasmic dynein intermediate chain 2 isoform 2.1	8.86	16.03	6
1085	IPI:IPI00131771.3	Cox6c Cytochrome c oxidase subunit 6C	8.85	63.16	8
1086	IPI:IPI00338327.1	Ndr3 protein NDRG3 isoform 1	8.85	24.23	7
1087	IPI:IPI00322562.5	Rps14 40S ribosomal protein S14	8.85	41.06	6
1088	IPI:IPI00469338.4	Agpat3 1-acyl-sn-glycerol-3-phosphate acyltransferase gamma	8.84	19.41	9
1089	IPI:IPI00131548.1	Prosc Proline synthase co-transcribed bacterial homolog protein	8.84	25.91	5
1090	IPI:IPI00135277.1	Rbbp9;LOC677524 Putative hydrolase RBBP9	8.84	54.3	8
1091	IPI:IPI00133948.1	Fkbp2 Peptidyl-prolyl cis-trans isomerase FKBP2	8.84	25	5
1092	IPI:IPI00116360.3	Trove2 60 kDa SS-A/Ro ribonucleoprotein	8.84	9.108	5
1093	IPI:IPI00469918.4	Rps16 Rps16 protein	8.83	31.4	6
1094	IPI:IPI00417005.1	Ntm Neurotrimin	8.83	23.26	6
1095	IPI:IPI00849044.2	Arcn1 Putative uncharacterized protein	8.83	18.59	6
1096	IPI:IPI00109061.1	Tubb2b Tubulin beta-2B chain	8.83	75.96	220
1097	IPI:IPI00895557.1	Myl1 Myosin, light polypeptide 1	8.82	53.53	9
1098	IPI:IPI00625105.2	Snrnp70 Isoform 1 of U1 small nuclear ribonucleoprotein 70 kDa	8.81	11.61	7
1099	IPI:IPI00944141.1	Rps5 40S ribosomal protein S5	8.81	34.8	7
1100	IPI:IPI00845802.1	Hba-a1;Hba-a2 hemoglobin alpha, adult chain 2	8.81	91.55	98
1101	IPI:IPI00129276.2	Eif3a Eukaryotic translation initiation factor 3 subunit A	8.8	5.729	6
1102	IPI:IPI00187402.1	Trnt1 Isoform 1 of tRNA-nucleotidyltransferase 1, mitochondrial	8.8	19.59	7
1103	IPI:IPI00881332.1	Caprin1 caprin-1 isoform b	8.8	11.03	6
1104	IPI:IPI00453849.3	Rnmt Isoform 1 of mRNA cap guanine-N7 methyltransferase	8.8	17.63	5
1105	IPI:IPI00894941.1	Fbxo2 F-box only protein 2	8.79	13.13	4
1106	IPI:IPI00224644.1	Srrt Isoform C of Serrate RNA effector molecule homolog	8.79	8.102	5
1107	IPI:IPI00139780.1	Rpl23 60S ribosomal protein L23	8.79	39.29	6
1108	IPI:IPI00133066.3	Psmd12 Putative uncharacterized protein	8.79	16.45	7
1109	IPI:IPI00320016.7	Nono Isoform 1 of Non-POU domain-containing octamer-binding protein	8.78	24.74	7
1110	IPI:IPI00849793.1	Rpl12 60S ribosomal protein L12	8.78	54.55	8
1111	IPI:IPI00122548.3	Vdac3 Voltage-dependent anion channel 3	8.77	31.34	15

1112	IPI:IPI00229517.5	Lgals1 Galectin-1	8.77	43.7	9
1113	IPI:IPI00131376.5	Spnb1 spectrin beta chain, erythrocyte	8.77	7.514	16
1114	IPI:IPI00330523.1	Pcca Propionyl-CoA carboxylase alpha chain, mitochondrial	8.77	10.91	7
1115	IPI:IPI00331342.6	Smu1 Isoform 1 of WD40 repeat-containing protein SMU1	8.77	16.76	6
1116	IPI:IPI00454008.1	Shmt2 Serine hydroxymethyltransferase	8.76	15.87	6
1117	IPI:IPI00127989.1	Ptges3;LOC100048119;Gm9769 Prostaglandin E synthase 3	8.75	37.5	7
1118	IPI:IPI00886393.1	Cul5 cullin-5 isoform 2	8.72	8.295	5
1119	IPI:IPI00463573.3	Eif3l Eukaryotic translation initiation factor 3 subunit L	8.72	16.31	8
1120	IPI:IPI00331490.5	Akr7a5 Aflatoxin B1 aldehyde reductase member 2	8.72	21.25	5
1121	IPI:IPI00881401.1	Cpt2 carnitine O-palmitoyltransferase 2, mitochondrial precursor	8.71	17.93	8
1122	IPI:IPI00221426.3	Gns N-acetylglucosamine-6-sulfatase	8.71	7.169	5
1123	IPI:IPI00121833.3	Acaa1a 3-ketoacyl-CoA thiolase A, peroxisomal	8.71	20.52	7
1124	IPI:IPI00890092.1	Aldh7a1 Isoform 2 of Alpha-amino adipic semialdehyde dehydrogenase	8.71	18.59	7
1125	IPI:IPI00554928.3	Nefl Neurofilament light polypeptide	8.7	10.31	8
1126	IPI:IPI00223377.1	Mbp Isoform 4 of Myelin basic protein	8.69	29.23	9
1127	IPI:IPI00313900.1	Lum Lumican	8.69	21.89	7
1128	IPI:IPI00876323.1	Gm10221;Atp5l ATP synthase subunit g, mitochondrial	8.69	51.46	6
1129	IPI:IPI00163011.2	Txndc5 Thioredoxin domain-containing protein 5	8.69	18.94	5
1130	IPI:IPI00113389.5	Fam129a Protein Niban	8.68	6.911	5
1131	IPI:IPI00380309.3	Luc7l2 Isoform 1 of Putative RNA-binding protein Luc7-like 2	8.68	12.76	7
1132	IPI:IPI00121443.1	Cox6a1 Cytochrome c oxidase polypeptide VIa	8.66	55.36	6
1133	IPI:IPI00120989.1	Npl N-acetylneuraminase lyase	8.66	20.94	6
1134	IPI:IPI00515349.1	Rhot1 Isoform 4 of Mitochondrial Rho GTPase 1	8.65	14.2	9
1135	IPI:IPI00121545.1	Ppp3ca Isoform 1 of Serine/threonine-protein phosphatase 2B catalytic subunit alpha isoform	8.64	14.97	7
1136	IPI:IPI00187443.1	Eif5;LOC100047658 Eukaryotic translation initiation factor 5	8.64	12.82	5
1137	IPI:IPI00750671.1	Dynlrb1 Dynein light chain roadblock-type 1	8.63	60.42	10
1138	IPI:IPI00344004.3	Ndufa12 NADH dehydrogenase (Ubiquinone) 1 alpha subcomplex, 12	8.63	46.98	8
1139	IPI:IPI00918301.1	Ndufab1 Protein	8.62	34.38	7
1140	IPI:IPI00126000.1	Fkbp3 Peptidyl-prolyl cis-trans isomerase FKBP3	8.62	28.13	5
1141	IPI:IPI00474116.3	Ppp3r1 Isoform 1 of Calcineurin subunit B type 1	8.62	54.12	8
1142	IPI:IPI00222759.3	Vat1l Synaptic vesicle membrane protein VAT-1 homolog-like	8.61	24.94	8
1143	IPI:IPI00750405.2	Bfsp1 Isoform 1 of Filensin	8.6	18.24	7

1144	IPI:IPI00884509.1	Serbp1 plasminogen activator inhibitor 1 RNA-binding protein isoform 2	8.6	17.21	5
1145	IPI:IPI00221759.1	Sephs1 Selenide, water dikinase 1	8.59	20.92	5
1146	IPI:IPI00225634.6	Rps12;Gm15887 40S ribosomal protein S12	8.59	49.24	8
1147	IPI:IPI00828796.1	Ide insulin-degrading enzyme	8.59	7.066	5
1148	IPI:IPI00330303.7	Atic;LOC100046995 Bifunctional purine biosynthesis protein PURH	8.57	19.26	9
1149	IPI:IPI00123129.1	Snd1 Staphylococcal nuclease domain-containing protein 1	8.56	9.67	6
1150	IPI:IPI00331644.5	Psma3 Proteasome subunit alpha type-3	8.56	20.39	6
1151	IPI:IPI00320241.1	Dnajb11 DnaJ homolog subfamily B member 11	8.55	15.36	5
1152	IPI:IPI00309207.5	Pafah1b1 Isoform 1 of Platelet-activating factor acetylhydrolase IB subunit alpha	8.54	14.39	5
1153	IPI:IPI00230766.4	Pvalb Parvalbumin alpha	8.54	46.36	6
1154	IPI:IPI00867770.1	Akap12 Isoform 2 of A-kinase anchor protein 12	8.53	7.283	7
1155	IPI:IPI00136246.1	Pitpnm1 Membrane-associated phosphatidylinositol transfer protein 1	8.53	8.367	8
1156	IPI:IPI00123349.2	Sec23a Protein transport protein Sec23A	8.53	8.758	6
1157	IPI:IPI00890906.1	Gpnmb transmembrane glycoprotein NMB precursor	8.53	5.226	6
1158	IPI:IPI00474637.4	Rpl10;LOC100048462;Rpl10-ps1;LOC100048223;Rpl10-ps3 60S ribosomal protein L10	8.52	38.32	8
1159	IPI:IPI00927968.1	Cpne6 copine-6 isoform b	8.52	10.61	6
1160	IPI:IPI00227392.5	Ywhah 14-3-3 protein eta	8.51	41.87	24
1161	IPI:IPI00853932.1	Dmxl2 Isoform 1 of DmX-like protein 2	8.51	3.364	9
1162	IPI:IPI00122257.1	Nt5e 5'-nucleotidase	8.5	19.97	9
1163	IPI:IPI00943445.1	Iars isoleucyl-tRNA synthetase, cytoplasmic	8.5	5.309	5
1164	IPI:IPI00755183.1	Tpd52l2 Tumor protein D52-like 2	8.5	32.31	7
1165	IPI:IPI00323571.1	ApoE Apolipoprotein E	8.49	29.26	8
1166	IPI:IPI00890867.1	Rad23b UV excision repair protein RAD23 homolog B	8.49	24.28	8
1167	IPI:IPI00403586.3	Nceh1 Neutral cholesterol ester hydrolase 1	8.49	19.61	9
1168	IPI:IPI00280207.1	Ubqln1 Isoform 2 of Ubiquilin-1	8.49	14.8	10
1169	IPI:IPI00116770.1	Rab18 Ras-related protein Rab-18	8.49	34.47	7
1170	IPI:IPI00132050.1	Ndufc2;LOC675851 NADH dehydrogenase [ubiquinone] 1 subunit C2	8.49	28.33	6
1171	IPI:IPI00463367.2	Usp7 Isoform 2 of Ubiquitin carboxyl-terminal hydrolase 7	8.49	6.212	4
1172	IPI:IPI00109142.4	Esd S-formylglutathione hydrolase	8.48	25.89	5
1173	IPI:IPI00380331.1	Ppp2r5d Protein phosphatase 2A B56 delta subunit	8.48	13.11	7
1174	IPI:IPI00320420.3	Clu Clusterin	8.47	19.2	7
1175	IPI:IPI00652694.1	Psmd3 Putative uncharacterized protein	8.47	14.15	7
1176	IPI:IPI00120984.5	Ndufa8 NADH dehydrogenase [ubiquinone] 1	8.47	34.88	5

		alpha subcomplex subunit 8			
1177	IPI:IPI00114802.1	Ppm1a Protein phosphatase 1A	8.46	23.82	8
1178	IPI:IPI00875732.1	Nif3l1 NIF3-like protein 1	8.46	17.29	5
1179	IPI:IPI00132485.2	Pfdn1 Prefoldin subunit 1	8.46	50	6
1180	IPI:IPI00856665.1	Pygl Phosphorylase	8.45	20.95	18
1181	IPI:IPI00830478.1	Fam120a Constitutive coactivator of PPAR-gamma-like protein 1	8.45	8.543	9
1182	IPI:IPI00116748.1	Ndufa10 NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 10, mitochondrial	8.43	23.66	8
1183	IPI:IPI00271440.4	Sncg Gamma-synuclein	8.43	54.47	8
1184	IPI:IPI00116120.3	Pdcd5;Gm3837 Uncharacterized protein	8.43	44.53	6
1185	IPI:IPI00120503.1	Copb1 Coatomer subunit beta	8.42	7.03	5
1186	IPI:IPI00944009.1	Eef1d Isoform 3 of Elongation factor 1-delta	8.42	10.61	6
1187	IPI:IPI00379876.2	Ttl12 Tubulin--tyrosine ligase-like protein 12	8.41	11.11	8
1188	IPI:IPI00109727.1	Thy1 Thy-1 membrane glycoprotein	8.41	28.4	7
1189	IPI:IPI00127417.1	Nme2 Nucleoside diphosphate kinase B	8.41	61.18	12
1190	IPI:IPI00169550.1	Rho Rhodopsin, isoform CRA_a	8.41	18.97	14
1191	IPI:IPI00895023.1	Carkd Isoform 3 of Carbohydrate kinase domain-containing protein	8.4	31.19	9
1192	IPI:IPI00762713.1	Dnajc6 Isoform 3 of Putative tyrosine-protein phosphatase auxilin	8.39	8.368	6
1193	IPI:IPI00830797.1	Sf1 splicing factor 1 isoform 2	8.39	15.88	6
1194	IPI:IPI00876075.1	Nrcam 123 kDa protein	8.39	7.651	6
1195	IPI:IPI00111166.7	Hdhd2 Isoform 1 of Haloacid dehalogenase-like hydrolase domain-containing protein 2	8.39	30.12	7
1196	IPI:IPI00653254.2	Pygl glycogen phosphorylase, liver form	8.38	14	16
1197	IPI:IPI00111981.1	Ola1 Isoform 1 of Obg-like ATPase 1	8.37	23.99	6
1198	IPI:IPI00624746.3	Gm15210 similar to Inosine 5-phosphate dehydrogenase 2	8.37	11.4	8
1199	IPI:IPI00120924.1	Msi2 Isoform 1 of RNA-binding protein Musashi homolog 2	8.37	30.64	9
1200	IPI:IPI00134191.3	Slc2a3 Solute carrier family 2, facilitated glucose transporter member 3	8.34	9.736	6
1201	IPI:IPI00132474.3	Itgb1 Integrin beta-1	8.34	9.398	7
1202	IPI:IPI00123501.3	Hnrnpul1 Isoform 1 of Heterogeneous nuclear ribonucleoprotein U-like protein 1	8.34	7.567	6
1203	IPI:IPI00831695.1	Dazap1 DAZ-associated protein 1 isoform c	8.33	15.76	9
1204	IPI:IPI00125460.1	Atp5j;LOC674583 ATP synthase-coupling factor 6, mitochondrial	8.33	56.48	9
1205	IPI:IPI00135630.4	Zfp385a zinc finger protein 385A	8.33	21.5	5
1206	IPI:IPI00956958.1	Dbn1 drebrin isoform 2	8.33	11.2	4
1207	IPI:IPI00955744.1	Rnh1 ribonuclease inhibitor isoform b	8.32	23.17	9
1208	IPI:IPI00421085.1	Cpsf6 Cleavage and polyadenylation specificity factor subunit 6	8.32	16.15	6

1209	IPI:IPI00169448.1	Ube2m NEDD8-conjugating enzyme Ubc12	8.32	28.96	5
1210	IPI:IPI00454049.4	Echs1 Enoyl-CoA hydratase, mitochondrial	8.31	33.79	7
1211	IPI:IPI00132623.3	Ndufb9 NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 9	8.31	43.58	5
1212	IPI:IPI00130185.1	Ppp1ca Serine/threonine-protein phosphatase PP1-alpha catalytic subunit	8.31	21.52	6
1213	IPI:IPI00113849.1	Cdc42 Isoform 2 of Cell division control protein 42 homolog	8.29	38.74	9
1214	IPI:IPI00133270.1	Clpp Putative ATP-dependent Clp protease proteolytic subunit, mitochondrial	8.29	29.41	6
1215	IPI:IPI00134131.2	Scp2 Isoform SCPx of Non-specific lipid-transfer protein	8.29	12.25	7
1216	IPI:IPI00170307.1	Apoa1bp Apolipoprotein A-I-binding protein	8.29	19.5	5
1217	IPI:IPI00222457.2	Dars aspartyl-tRNA synthetase, cytoplasmic isoform 1	8.28	16.97	7
1218	IPI:IPI00153740.1	Ahsa1 Activator of 90 kDa heat shock protein ATPase homolog 1	8.27	25.74	8
1219	IPI:IPI00134353.3	Nol3 Nucleolar protein 3	8.27	32.73	7
1220	IPI:IPI00136984.1	Rps7 40S ribosomal protein S7	8.26	47.42	9
1221	IPI:IPI00263048.2	Numa1 nuclear mitotic apparatus protein 1	8.26	5.922	8
1222	IPI:IPI00970409.1	Rpl31 Putative uncharacterized protein	8.26	32.8	6
1223	IPI:IPI00970097.1	Gpd1 Uncharacterized protein	8.26	17.79	5
1224	IPI:IPI00970148.1	Ppp3cb Serine/threonine-protein phosphatase	8.26	13.36	5
1225	IPI:IPI00308706.4	Rpl5;Gm15500 60S ribosomal protein L5	8.25	27.61	9
1226	IPI:IPI00944159.1	Safb scaffold attachment factor B	8.25	12.91	9
1227	IPI:IPI00115097.1	Copb2 Coatomer subunit beta'	8.25	6.961	5
1228	IPI:IPI00653072.1	Dync1i2 Putative uncharacterized protein	8.25	19.94	6
1229	IPI:IPI00228820.5	Gstm2 Glutathione S-transferase Mu 2	8.24	38.07	9
1230	IPI:IPI00225301.1	Hsd1l Inactive hydroxysteroid dehydrogenase-like protein 1	8.24	20	4
1231	IPI:IPI00918921.1	- Novel protein, possible orthologue of human TMEM189-UBE2V1	8.24	26.23	7
1232	IPI:IPI00226263.5	Mxra7 Matrix-remodeling-associated protein 7	8.23	46.63	5
1233	IPI:IPI00224626.3	Sept7 septin-7	8.23	10.78	4
1234	IPI:IPI00169473.1	Oplah 5-oxoprolinase	8.23	4.581	5
1235	IPI:IPI00170101.1	Optn Optineurin	8.22	9.932	5
1236	IPI:IPI00108330.2	Cnrip1 CB1 cannabinoid receptor-interacting protein 1	8.22	51.83	6
1237	IPI:IPI00119305.3	Pa2g4 Proliferation-associated protein 2G4	8.22	23.86	7
1238	IPI:IPI00314788.5	Asl Argininosuccinate lyase	8.22	11.42	6
1239	IPI:IPI00322145.1 0	Ptplad1 3-hydroxyacyl-CoA dehydratase 3	8.22	14.09	7
1240	IPI:IPI00137930.1	Eif1 Eukaryotic translation initiation factor 1	8.21	63.72	6
1241	IPI:IPI00121931.1	Scrn2 Secernin-2	8.21	22.35	5

1242	IPI:IPI00662244.2	AgI amylo-1,6-glucosidase, 4-alpha-glucanotransferase	8.21	4.7	5
1243	IPI:IPI00915507.1	Raly RNA-binding protein Raly short isoform	8.2	21.96	6
1244	IPI:IPI00230264.5	H2afx Histone H2A.x	8.19	27.27	8
1245	IPI:IPI00313558.4	Arcn1 Coatomer subunit delta	8.19	18.59	6
1246	IPI:IPI00880613.1	Ndufb10 Uncharacterized protein	8.19	40.27	6
1247	IPI:IPI00133071.7	Asprv1 Retroviral-like aspartic protease 1	8.18	30.97	6
1248	IPI:IPI00162781.2	Ahcyl1 Putative adenosylhomocysteinase 2	8.17	23.4	9
1249	IPI:IPI00323122.1	Add2 Isoform 1 of Beta-adducin	8.17	9.931	7
1250	IPI:IPI00221602.1	Sfxn5 Sideroflexin-5	8.17	14.62	5
1251	IPI:IPI00116554.2	Ptpn11 Isoform 1 of Tyrosine-protein phosphatase non-receptor type 11	8.17	16.42	7
1252	IPI:IPI00874736.1	Ctnnbl1 65 kDa protein	8.16	5.516	5
1253	IPI:IPI00380195.1	Pgp Phosphoglycolate phosphatase	8.16	20.25	5
1254	IPI:IPI00135626.2	Aqp4 Isoform 2 of Aquaporin-4	8.16	14.24	4
1255	IPI:IPI00113244.3	Ttyh1 Isoform 1 of Protein tweety homolog 1	8.16	15.11	6
1256	IPI:IPI00654420.1	Prosc Putative uncharacterized protein	8.16	19.02	4
1257	IPI:IPI00321978.3	Ranbp1 Ran-specific GTPase-activating protein (Fragment)	8.15	27.59	6
1258	IPI:IPI00555055.3	H2afv 14 kDa protein	8.15	63.57	8
1259	IPI:IPI00132762.1	Trap1 Heat shock protein 75 kDa, mitochondrial	8.14	7.224	8
1260	IPI:IPI00117896.3	Mapre1 Microtubule-associated protein RP/EB family member 1	8.14	31.34	6
1261	IPI:IPI00117944.1	Tsg101 Tumor susceptibility gene 101 protein	8.14	16.88	6
1262	IPI:IPI00119220.1	Snrpd2 Small nuclear ribonucleoprotein Sm D2	8.14	47.46	5
1263	IPI:IPI00223437.4	Copg Putative uncharacterized protein	8.14	6.948	4
1264	IPI:IPI00828976.1	Tmpo lamina-associated polypeptide 2, isoforms alpha/zeta isoform epsilon	8.13	27.43	9
1265	IPI:IPI00652919.2	Puf60 Isoform 1 of Poly(U)-binding-splicing factor PUF60	8.13	20.04	7
1266	IPI:IPI00226993.5	Txn1 Thioredoxin	8.13	43.81	9
1267	IPI:IPI00553612.4	Rpl27a 60S ribosomal protein L27a	8.13	27.03	6
1268	IPI:IPI00275992.3	Htra2 Serine protease HTRA2, mitochondrial	8.13	16.16	5
1269	IPI:IPI00130661.1	Tpp1 Tripeptidyl-peptidase 1	8.12	14.95	6
1270	IPI:IPI00850126.2	LOC100044883 similar to RAB3C, member RAS oncogene family isoform 1	8.12	44.44	10
1271	IPI:IPI00226215.1	Slc6a11 Transporter	8.12	8.293	5
1272	IPI:IPI00667252.1	LOC634785 similar to ribosomal protein L15	8.12	20.9	5
1273	IPI:IPI00118757.1	Phpt1 14 kDa phosphohistidine phosphatase	8.12	54.03	8
1274	IPI:IPI00316495.3	Rab3c Ras-related protein Rab-3C	8.12	40.53	8
1275	IPI:IPI00230310.5	Hpca Neuron-specific calcium-binding protein hippocalcin	8.11	47.67	9
1276	IPI:IPI00884556.1	Aipl1 aryl-hydrocarbon-interacting protein-like 1	8.11	17.07	4

1277	IPI:IPI00127691.1	Gss Glutathione synthetase	8.11	20.89	7
1278	IPI:IPI00115538.2	LOC100047211 similar to thymosin beta-4	8.11	15.87	5
1279	IPI:IPI00266281.4	Txn1 Thioredoxin-like protein 1	8.1	28.37	7
1280	IPI:IPI00387430.1	Ndufb8 NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 8, mitochondrial	8.1	30.11	5
1281	IPI:IPI00221841.1	Pcmdt2 Protein-L-isoaspartate O-methyltransferase domain-containing protein 2	8.1	13.93	4
1282	IPI:IPI00115992.1	Gm4963 Uncharacterized protein	8.1	29.6	5
1283	IPI:IPI00127707.1	Pcbp2 Isoform 1 of Poly(rC)-binding protein 2	8.09	65.19	29
1284	IPI:IPI00113262.1	Psmd14 26S proteasome non-ATPase regulatory subunit 14	8.09	24.84	5
1285	IPI:IPI00262743.6	Tecr Trans-2,3-enoyl-CoA reductase	8.09	13.31	5
1286	IPI:IPI00128249.1	Ahsg Alpha-2-HS-glycoprotein	8.09	32.17	9
1287	IPI:IPI00453599.2	Cfdp1 Craniofacial development protein 1	8.09	29.83	6
1288	IPI:IPI00118676.3	Eif4a1 Eukaryotic initiation factor 4A-I	8.08	44.83	22
1289	IPI:IPI00652675.2	Lsamp Putative uncharacterized protein	8.08	18.34	7
1290	IPI:IPI00604945.2	Mpst 3-mercaptopyruvate sulfurtransferase	8.08	34.68	9
1291	IPI:IPI00319652.2	Gpx1 Glutathione peroxidase 1	8.08	47.26	7
1292	IPI:IPI00845557.1	Ctbp1 Isoform 2 of C-terminal-binding protein 1	8.08	12.79	5
1293	IPI:IPI00132039.2	Mtch2 Mitochondrial carrier homolog 2	8.08	28.71	6
1294	IPI:IPI00135238.2	Arl6 Putative uncharacterized protein	8.08	22.28	4
1295	IPI:IPI00121319.1	Crip2 Cysteine-rich protein 2	8.08	25.96	4
1296	IPI:IPI00122344.1	Cth Cystathionine gamma-lyase	8.08	19.35	4
1297	IPI:IPI00123379.1	Hdlbp Vigilin	8.07	9.385	8
1298	IPI:IPI00831352.2	Cirbp Uncharacterized protein	8.07	50.93	9
1299	IPI:IPI00625441.3	Tpd52 tumor protein D52 isoform 1	8.07	32.79	7
1300	IPI:IPI00128345.2	Ndufs6 NADH dehydrogenase [ubiquinone] iron-sulfur protein 6, mitochondrial	8.06	54.31	8
1301	IPI:IPI00761592.1	Eif3b 109 kDa protein	8.06	8.669	5
1302	IPI:IPI00112448.1	Rps10 40S ribosomal protein S10	8.06	26.67	5
1303	IPI:IPI00761650.1	Psmd9 26S proteasome non-ATPase regulatory subunit 9	8.06	24.77	6
1304	IPI:IPI00224093.2	Phyhip1 Isoform 1 of Phytanoyl-CoA hydroxylase-interacting protein-like	8.05	18.93	8
1305	IPI:IPI00652902.1	Gnai2 Putative uncharacterized protein	8.05	36.9	21
1306	IPI:IPI00130095.1	G3bp1 Ras GTPase-activating protein-binding protein 1	8.05	15.05	6
1307	IPI:IPI00134484.1	Timm13 Mitochondrial import inner membrane translocase subunit Tim13	8.05	53.68	5
1308	IPI:IPI00126175.2	S100a1 protein S100-A1	8.05	38.3	8
1309	IPI:IPI00648806.2	Fam114a2 Isoform 2 of Protein FAM114A2	8.05	14.29	5
1310	IPI:IPI00121623.1	Dynll1 Dynein light chain 1, cytoplasmic	8.04	62.92	5
1311	IPI:IPI00453776.1	Eea1 Early endosome antigen 1	8.04	6.804	7

1312	IPI:IPI00775863.1	Gnb2 41 kDa protein	8.04	29.06	28
1313	IPI:IPI00753326.1	Kif5c Putative uncharacterized protein	8.03	19.25	14
1314	IPI:IPI00122451.1	Elavl3 Isoform HuC-L of ELAV-like protein 3	8.03	13.35	7
1315	IPI:IPI00230763.1	Uchl5 Isoform 2 of Ubiquitin carboxyl-terminal hydrolase isozyme L5	8.03	22.56	5
1316	IPI:IPI00928532.1	Eif3f eukaryotic translation initiation factor 3 subunit F	8.03	16.9	4
1317	IPI:IPI00134941.1	Kras Isoform 2B of GTPase KRas	8.03	39.36	7
1318	IPI:IPI00409918.1	Eif4a2 Isoform 2 of Eukaryotic initiation factor 4A-II	8.03	43.63	20
1319	IPI:IPI00761607.1	Hdhd2 Uncharacterized protein	8.02	31.66	9
1320	IPI:IPI00121851.2	Vbp1 Prefoldin subunit 3	8.02	45.41	8
1321	IPI:IPI00330591.1	Csda Isoform 1 of DNA-binding protein A	8.02	26.87	7
1322	IPI:IPI00625829.2	Gm4617 hypothetical protein isoform 1	8.02	35.45	9
1323	IPI:IPI00677917.1	- similar to hCG1640785	8.02	24	7
1324	IPI:IPI00749789.1	LOC100046056 similar to Pre-B-cell leukemia transcription factor interacting protein 1	8.02	9.72	4
1325	IPI:IPI00648685.1	Ppp1r8 Protein phosphatase 1, regulatory (Inhibitor) subunit 8	8.02	24.29	4
1326	IPI:IPI00115824.1	Nipsnap1 Protein NipSnap homolog 1	8.02	32.75	8
1327	IPI:IPI00116991.1	Hars Histidyl-tRNA synthetase, cytoplasmic	8.01	11	5
1328	IPI:IPI00125778.4	Tagln2 Transgelin-2	8.01	40.7	9
1329	IPI:IPI00874521.1	Gm10136 Uncharacterized protein	8.01	22.76	4
1330	IPI:IPI00110315.1	Rtcd1 RNA 3'-terminal phosphate cyclase	8.01	13.66	4
1331	IPI:IPI00222557.5	S100b Protein S100-B	8.01	32.61	6
1332	IPI:IPI00117379.3	Atox1 Copper transport protein ATOX1	8.01	88.24	7
1333	IPI:IPI00222397.5	Cryga Gamma-crystallin A	8.01	37.36	29
1334	IPI:IPI00230194.5	Gng2 Guanine nucleotide-binding protein G(I)/G(S)/G(O) subunit gamma-2	8.01	52.11	7
1335	IPI:IPI00807819.1	LOC100044663 similar to Novel transmembrane domain containing protein	8.01	30.96	4
1336	IPI:IPI00121110.1	Ralb Ras-related protein Ral-B	8.01	26.21	5
1337	IPI:IPI00928284.1	Psap sulfated glycoprotein 1 isoform E preproprotein	8.01	10.64	5
1338	IPI:IPI00121297.1	Naca Nascent polypeptide-associated complex subunit alpha	8	26.51	5
1339	IPI:IPI00315808.3	Mrps36 28S ribosomal protein S36, mitochondrial	8	69.61	5
1340	IPI:IPI00468999.4	Cds2 Phosphatidate cytidyltransferase 2	8	15.09	8
1341	IPI:IPI00119067.3	Tppp Tubulin polymerization-promoting protein	8	26.15	5
1342	IPI:IPI00848566.1	Macf1 microtubule-actin cross-linking factor 1	8	2.302	8
1343	IPI:IPI00471246.2	Ivd Isovaleryl-CoA dehydrogenase, mitochondrial	8	13.44	5
1344	IPI:IPI00742282.1	Prpf31 Isoform 2 of U4/U6 small nuclear ribonucleoprotein Prp31	8	15.62	6
1345	IPI:IPI00918942.1	Cyb5 11 kDa protein	8	65.31	5

1346	IPI:IPI00875986.1	Gm5326;Gm6662 Androgen-binding protein (Fragment)	7.99	52.69	6
1347	IPI:IPI00420726.3	Rps9 40S ribosomal protein S9	7.94	27.32	8
1348	IPI:IPI00136483.1	Psmb7 Proteasome subunit beta type-7	7.94	13.72	6
1349	IPI:IPI00230277.3	Mapk3 Mitogen-activated protein kinase 3	7.93	21.32	8
1350	IPI:IPI00876001.1 4	Snx1 sorting nexin-1	7.92	17.24	8
1351	IPI:IPI00121387.1	Gna11 Guanine nucleotide-binding protein subunit alpha-11	7.91	23.4	7
1352	IPI:IPI00882156.1	Nae1 Uncharacterized protein	7.91	13.14	4
1353	IPI:IPI00126191.5	Lmnb2 Isoform B2 of Lamin-B2	7.9	12.25	9
1354	IPI:IPI00467447.3	Iqgap1 Ras GTPase-activating-like protein IQGAP1	7.9	4.587	5
1355	IPI:IPI00113377.1	Rplp1 60S acidic ribosomal protein P1	7.9	85.96	7
1356	IPI:IPI00955167.1	Mars methionyl-tRNA synthetase, cytoplasmic isoform 1	7.9	8.681	7
1357	IPI:IPI00330748.8	Cngb1 cGMP-gated cation channel beta subunit	7.89	4.981	9
1358	IPI:IPI00851049.1	- similar to ribosomal protein	7.89	40.79	8
1359	IPI:IPI00856292.1	Nrd1 Nardilysin, N-arginine dibasic convertase, NRD convertase 1	7.88	5.551	5
1360	IPI:IPI00420136.2	Snx3 sorting nexin-3	7.88	32.1	7
1361	IPI:IPI00828741.1	Raly RNA-binding protein Raly long isoform	7.87	18.91	5
1362	IPI:IPI00930898.1	Nfasc neurofascin isoform 2 precursor	7.87	3.616	4
1363	IPI:IPI00229008.2	Ndufs4 NADH dehydrogenase [ubiquinone] iron-sulfur protein 4, mitochondrial	7.86	28.57	5
1364	IPI:IPI00848672.1	Srsf11 splicing factor, arginine/serine-rich 11 isoform 2	7.86	15.07	5
1365	IPI:IPI00117689.1	Ptrf Polymerase I and transcript release factor	7.85	22.96	6
1366	IPI:IPI00133801.3	Gm6563;Sarnp SAP domain-containing ribonucleoprotein	7.85	41.9	5
1367	IPI:IPI00460063.2	Pcyox1 Prenylcysteine oxidase	7.84	14.65	5
1368	IPI:IPI00856375.1	Ccdc136 Isoform 1 of Coiled-coil domain-containing protein 136	7.84	6.514	5
1369	IPI:IPI00378120.2	Glrx5 Glutaredoxin-related protein 5, mitochondrial	7.83	35.53	4
1370	IPI:IPI00125267.4	Vapa Vesicle-associated membrane protein-associated protein A	7.82	26.91	9
1371	IPI:IPI00649104.1	Mapt Microtubule-associated protein	7.82	17.76	8
1372	IPI:IPI00353927.1 5	Hook3 Hook homolog 3	7.82	13.75	7
1373	IPI:IPI00226515.5	Tagln Transgelin	7.82	33.33	7
1374	IPI:IPI00875457.1	Lrp14 147 kDa protein	7.8	9.418	9
1375	IPI:IPI00224549.3	Mylpf Myosin regulatory light chain 2, skeletal muscle isoform	7.79	39.05	8
1376	IPI:IPI00955362.1	Abpe androgen binding protein epsilon precursor	7.79	45.61	8

1377	IPI:IPI00881291.1	Acyp1 Acylphosphatase	7.79	35.67	7
1378	IPI:IPI00379513.6	Fubp3 far upstream element (FUSE) binding protein 3	7.78	9.565	6
1379	IPI:IPI00762185.2	Mpst Uncharacterized protein	7.78	16.72	5
1380	IPI:IPI00123619.7	Cyp2d22 cytochrome P450, family 2, subfamily d, polypeptide 22	7.77	12.4	5
1381	IPI:IPI00121427.1	S100a6 Protein S100-A6	7.77	39.33	4
1382	IPI:IPI00850420.1	LOC100044883 similar to RAB3C, member RAS oncogene family isoform 2	7.77	39.37	9
1383	IPI:IPI00406741.5	Mtap4 Isoform 4 of Microtubule-associated protein 4	7.76	10.09	6
1384	IPI:IPI00665601.1	LOC637733 similar to high-mobility group box 1	7.76	25.82	7
1385	IPI:IPI00648240.1	Unc119 Unc-119 homolog	7.76	30.53	7
1386	IPI:IPI00229951.1	Lgsn Lengsin	7.75	7.638	6
1387	IPI:IPI00126762.1	Csnk2b Casein kinase II subunit beta	7.74	27.91	6
1388	IPI:IPI00271986.6	Atp5j2 ATP synthase subunit f, mitochondrial	7.74	40.91	9
1389	IPI:IPI00187301.1	Ciapin1 Anamorsin	7.73	29.13	6
1390	IPI:IPI00408957.3	Sugt1 Suppressor of G2 allele of SKP1 homolog	7.71	26.79	7
1391	IPI:IPI00123920.2	Serpina1c Alpha-1-antitrypsin 1-3	7.71	45.15	27
1392	IPI:IPI00280566.3	Abpz Androgen-binding protein zeta	7.7	47.32	7
1393	IPI:IPI00153644.3	Pbxip1 Pre-B-cell leukemia transcription factor-interacting protein 1	7.69	9.078	4
1394	IPI:IPI00113259.5	4930583H14Rik Uncharacterized protein C4orf49 homolog	7.68	68.9	8
1395	IPI:IPI00128867.3	Purb Transcriptional activator protein Pur-beta	7.67	33.95	8
1396	IPI:IPI00114958.1	Kng1 Isoform HMW of Kininogen-1	7.67	7.867	4
1397	IPI:IPI00319518.4	Lonp1 Lon protease homolog	7.67	11.23	7
1398	IPI:IPI00322209.5	Krt8 Keratin, type II cytoskeletal 8	7.66	14.9	9
1399	IPI:IPI00471475.1	Serbp1 Isoform 1 of Plasminogen activator inhibitor 1 RNA-binding protein	7.65	14.99	6
1400	IPI:IPI00230707.6	Ywhag 14-3-3 protein gamma	7.64	61.94	36
1401	IPI:IPI00970075.1	Txndc5 39 kDa protein	7.63	22.67	7
1402	IPI:IPI00221581.1	Eif4b Eukaryotic translation initiation factor 4B	7.63	10.15	5
1403	IPI:IPI00874692.1	Gm4294 similar to ribosomal protein L15	7.63	20.1	4
1404	IPI:IPI00918134.1	Acin1 Apoptotic chromatin condensation inducer 1	7.63	10.87	5
1405	IPI:IPI00319214.1	Mettl3 Isoform 1 of N6-adenosine-methyltransferase 70 kDa subunit	7.62	10.69	5
1406	IPI:IPI00320034.6	Polr2b DNA-directed RNA polymerase II subunit RPB2	7.61	6.133	5
1407	IPI:IPI00938530.1	Myh11 myosin-11 isoform 1	7.6	9.598	15
1408	IPI:IPI00622283.3	Xpo5 Isoform 1 of Exportin-5	7.6	5.565	5
1409	IPI:IPI00648142.2	Sec23ip SEC23-interacting protein	7.6	6.413	4
1410	IPI:IPI00132473.3	Nudt21 Cleavage and polyadenylation specificity factor subunit 5	7.6	22.47	5

1411	IPI:IPI00944731.1	Mpp4 MAGUK p55 subfamily member 4 isoform 1	7.59	16.82	8
1412	IPI:IPI00454083.1	Kif21a Isoform 3 of Kinesin-like protein KIF21A	7.59	3.318	4
1413	IPI:IPI00480275.1	Pfdn5 Prefoldin subunit 5	7.59	35.71	5
1414	IPI:IPI00109221.3	Sacm1 Phosphatidylinositol phosphatase SAC1	7.59	10.39	7
1415	IPI:IPI00223713.5	Hist1h1c Histone H1.2	7.58	26.89	7
1416	IPI:IPI00124829.5	Arpc3 Actin-related protein 2/3 complex subunit 3	7.58	26.4	5
1417	IPI:IPI00845833.1	Ppp3r1 Isoform 2 of Calcineurin subunit B type 1	7.57	57.5	8
1418	IPI:IPI00553576.3	Abcd3 ATP-binding cassette sub-family D member 3	7.55	12.14	7
1419	IPI:IPI00903356.1	- BetaCstF-64 variant 3	7.55	11.75	5
1420	IPI:IPI00132410.1	Rab5a Ras-related protein Rab-5A	7.53	53.49	8
1421	IPI:IPI00877279.1	Anxa3 annexin A3	7.52	17.65	4
1422	IPI:IPI00467495.4	Gmfb Glia maturation factor, beta	7.52	41.96	5
1423	IPI:IPI00471341.2	Ubl4 Ubiquitin-like protein 4A	7.52	31.21	4
1424	IPI:IPI00420467.1	Pvrl1 Poliovirus receptor-related 1	7.51	12.62	8
1425	IPI:IPI00310567.2	Pon2 Serum paraoxonase/arylesterase 2	7.51	18.64	4
1426	IPI:IPI00928320.1	Psap sulfated glycoprotein 1 isoform F preproprotein	7.51	12.34	8
1427	IPI:IPI00885252.1	Pdcd5 Uncharacterized protein	7.51	22.93	5
1428	IPI:IPI00222419.5	Gm10053;Cycs Cytochrome c, somatic	7.49	41.9	6
1429	IPI:IPI00132350.1	Cisd2 CDGSH iron-sulfur domain-containing protein 2	7.49	31.11	4
1430	IPI:IPI00133920.3	Sec13 Protein SEC13 homolog	7.48	16.77	4
1431	IPI:IPI00874685.1	Nnt 116 kDa protein	7.48	7.418	5
1432	IPI:IPI00844763.1	Cask Isoform 1 of Peripheral plasma membrane protein CASK	7.48	7.991	5
1433	IPI:IPI00752942.1	Luc7l3 Isoform 3 of Luc7-like protein 3	7.47	7.338	5
1434	IPI:IPI00122015.1	Fam49b Protein FAM49B	7.47	25.62	5
1435	IPI:IPI00221769.5	Ak3 GTP:AMP phosphotransferase, mitochondrial	7.47	24.23	5
1436	IPI:IPI00881311.1	Klc1 64 kDa protein	7.47	8.393	4
1437	IPI:IPI00322312.3	Arhgdia Rho GDP-dissociation inhibitor 1	7.45	46.08	9
1438	IPI:IPI00886162.1	Ncln Uncharacterized protein	7.45	9.609	5
1439	IPI:IPI00331444.7	Ipo7 Importin-7	7.44	9.249	9
1440	IPI:IPI00315550.3	Glrx3 Glutaredoxin-3	7.44	19.29	6
1441	IPI:IPI00311515.2	Napb Beta-soluble NSF attachment protein	7.43	34.23	8
1442	IPI:IPI00405977.6	Macf1 Microtubule-actin crosslinking factor 1	7.43	2.396	7
1443	IPI:IPI00918973.1	Strap Serine-threonine kinase receptor-associated protein	7.42	15.14	4
1444	IPI:IPI00322828.1	Farsb Phenylalanyl-tRNA synthetase beta chain	7.42	6.791	4
1445	IPI:IPI00874440.1	Sept7 Septin-7	7.42	19.72	6
1446	IPI:IPI00626233.3	Rpl17-ps3 similar to Rpl17 protein	7.42	18.06	5
1447	IPI:IPI00881469.1	Gstt1 glutathione S-transferase theta-1	7.41	16.67	5

1448	IPI:IPI00117083.1	Grpel1 GrpE protein homolog 1, mitochondrial	7.41	22.12	4
1449	IPI:IPI00277552.3	Oxr1 Isoform 1 of Oxidation resistance protein 1	7.41	14.2	8
1450	IPI:IPI00109611.1	Fam162a Protein FAM162A	7.4	27.1	4
1451	IPI:IPI00875040.1	Pcp4;Igsf5 Uncharacterized protein	7.4	20.3	8
1452	IPI:IPI00466610.5	Map2k1 Dual specificity mitogen-activated protein kinase kinase 1	7.38	27.48	9
1453	IPI:IPI00874654.1	Hist1h2be;Hist1h2bg;Gm9998;Hist1h2bc Histone H2B	7.38	26.12	14
1454	IPI:IPI00468688.4	Tars Threonyl-tRNA synthetase, cytoplasmic	7.38	7.756	5
1455	IPI:IPI00473688.1	Sirt2 Isoform 2 of NAD-dependent deacetylase sirtuin-2	7.38	16.19	4
1456	IPI:IPI00127713.1	Atp2b2 Plasma membrane calcium-transporting ATPase 2	7.37	21.79	19
1457	IPI:IPI00308187.1	Vapb vesicle-associated membrane protein-associated protein B	7.37	27.57	5
1458	IPI:IPI00876369.1	Celf2 42 kDa protein	7.37	11.11	5
1459	IPI:IPI00321348.3	Igsf8 Immunoglobulin superfamily member 8	7.36	12.6	5
1460	IPI:IPI00875852.1	Ewsr1 RNA-binding protein EWS	7.34	13.13	9
1461	IPI:IPI00134820.1	Drg2 Developmentally-regulated GTP-binding protein 2	7.33	16.48	4
1462	IPI:IPI00762049.2	Prkar1a cAMP-dependent protein kinase type I-alpha regulatory subunit	7.32	19.95	7
1463	IPI:IPI00473445.1	Rpl21-ps8 Uncharacterized protein	7.31	35.62	5
1464	IPI:IPI00129755.2	Serpina1b Alpha-1-antitrypsin 1-2	7.3	52.3	27
1465	IPI:IPI00114560.5	Rab1 Ras-related protein Rab-1A	7.29	66.83	22
1466	IPI:IPI00118217.3	Stx7 Syntaxin-7	7.29	26.05	4
1467	IPI:IPI00399631.1	Sgta Isoform 2 of Small glutamine-rich tetratricopeptide repeat-containing protein alpha	7.28	27.71	9
1468	IPI:IPI00928300.1	Rangap1 ran GTPase-activating protein 1	7.28	9.677	5
1469	IPI:IPI00955148.1	Chchd6 coiled-coil-helix-coiled-coil-helix domain-containing protein 6 isoform 1	7.28	15.38	4
1470	IPI:IPI00112414.1	Cse1l Exportin-2	7.27	9.784	7
1471	IPI:IPI00627029.1	Rgs7 Regulator of G-protein signaling 7	7.27	7.036	4
1472	IPI:IPI00120871.1	Trmt112;Gm13072 tRNA methyltransferase 112 homolog	7.27	48	5
1473	IPI:IPI00831568.1	L1cam L1 cell adhesion molecule	7.27	5.2	4
1474	IPI:IPI00162942.1	Mrpl37 39S ribosomal protein L37, mitochondrial	7.26	14.42	4
1475	IPI:IPI00130344.3	Clic1 Chloride intracellular channel protein 1	7.26	40.25	6
1476	IPI:IPI00420231.4	Xpnpep1 X-prolyl aminopeptidase (Aminopeptidase P) 1, soluble, isoform CRA_b	7.25	15.17	8
1477	IPI:IPI00761421.2	Gm10362 similar to Rpl17 protein	7.25	19.31	6
1478	IPI:IPI00228674.3	Tceal5 Transcription elongation factor A protein-like 5	7.25	24	6
1479	IPI:IPI00378557.3	Pfdn4 prefoldin 4 isoform 1	7.25	34.33	4

1480	IPI:IPI00877268.1	Snx12 sorting nexin-12 isoform 3	7.25	43.98	9
1481	IPI:IPI00124149.1	LOC100044514;Nutf2;Gm10349 Nuclear transport factor 2	7.24	40.16	4
1482	IPI:IPI00225400.2	Mbnl2 Isoform 1 of Muscleblind-like protein 2	7.24	15.28	4
1483	IPI:IPI00128285.1	Ndufv3 NADH dehydrogenase (Ubiquinone) flavoprotein 3	7.23	19.19	7
1484	IPI:IPI00845803.1	Snca Isoform 2 of Alpha-synuclein	7.23	58.68	9
1485	IPI:IPI00229845.3	Prmt5 Protein arginine N-methyltransferase 5	7.22	7.221	4
1486	IPI:IPI00775965.1	Nras GTPase NRas	7.21	39.15	7
1487	IPI:IPI00125450.3	Nme3 Nucleoside diphosphate kinase 3	7.21	30.18	4
1488	IPI:IPI00458765.2	Khdrbs1 KH domain-containing, RNA-binding, signal transduction-associated protein 1	7.2	23.7	9
1489	IPI:IPI00277915.3	Guca1a Guanylate cyclase activator 1a (Retina), isoform CRA_a	7.2	23.27	5
1490	IPI:IPI00320188.5	Nampt Nicotinamide phosphoribosyltransferase	7.19	24.44	9
1491	IPI:IPI00119131.2	Cyb5r1 Isoform 1 of NADH-cytochrome b5 reductase 1	7.19	33.11	8
1492	IPI:IPI00407917.1	Gm5451 Uncharacterized protein	7.19	18.75	4
1493	IPI:IPI00165706.1	Gm10241;Gm13690;Sumo2;Gm13430;LOC100044181 Small ubiquitin-related modifier 2	7.18	58.95	5
1494	IPI:IPI00623241.3	Sgip1 SH3-domain GRB2-like interacting protein 1 alpha	7.17	8.431	6
1495	IPI:IPI00225201.5	Iars Isoleucyl-tRNA synthetase, cytoplasmic	7.15	5.943	6
1496	IPI:IPI00135655.3	Vapb Vesicle-associated membrane protein-associated protein B	7.15	35.8	8
1497	IPI:IPI00132960.2	Acy1 Aminoacylase-1	7.14	22.55	7
1498	IPI:IPI00228680.2	Nrxn3 neurexin III	7.13	3.965	4
1499	IPI:IPI00117178.1	Aip AH receptor-interacting protein	7.13	16.06	5
1500	IPI:IPI00471441.1	Ptms Ptms protein	7.13	20.38	9
1501	IPI:IPI00112320.4	Wdr61 WD repeat-containing protein 61	7.13	21.31	4
1502	IPI:IPI00121887.5	Tcea1 Isoform 2 of Transcription elongation factor A protein 1	7.12	29.57	7
1503	IPI:IPI00114945.1	Sept2 Septin-2	7.12	19.11	5
1504	IPI:IPI00857195.1	Itgav integrin alpha-V precursor	7.12	4.598	3
1505	IPI:IPI00128155.2	Ctbp1 Isoform 1 of C-terminal-binding protein 1	7.11	23.58	10
1506	IPI:IPI00664442.3	Slc4a7 sodium bicarbonate cotransporter 3	7.09	7.073	6
1507	IPI:IPI00918862.1	Pccb Propionyl Coenzyme A carboxylase, beta polypeptide, isoform CRA_a	7.08	14.79	5
1508	IPI:IPI00119680.3	Ap1m1 AP-1 complex subunit mu-1	7.08	12.77	4
1509	IPI:IPI00110705.1	Prdxd1 Isoform 1 of PrdX-deacylase domain-containing protein 1	7.08	32.54	4
1510	IPI:IPI00221608.3	Samm50 Sorting and assembly machinery component 50 homolog	7.06	19.4	9
1511	IPI:IPI00785371.2	L1cam neural cell adhesion molecule L1	7.06	6.434	5

1512	IPI:IPI00128778.1	Sh3glb1 Isoform 2 of Endophilin-B1	7.06	16.32	5
1513	IPI:IPI00117072.1	Ppm1g Protein phosphatase 1G	7.06	11.44	4
1514	IPI:IPI00120097.1	Slc27a1 Long-chain fatty acid transport protein 1	7.06	10.84	4
1515	IPI:IPI00554870.2	Gstt2 Glutathione S-transferase theta-2	7.05	19.26	4
1516	IPI:IPI00651878.1	Ak4 Putative uncharacterized protein (Fragment)	7.04	13.95	4
1517	IPI:IPI00649019.1	Ndufs5 NADH dehydrogenase (Ubiquinone) Fe-S protein 5	7.04	48.35	5
1518	IPI:IPI00776252.1	Txnrd1 Isoform 1 of Thioredoxin reductase 1, cytoplasmic	7.03	10.44	5
1519	IPI:IPI00314520.3	Khdrbs3 KH domain-containing, RNA-binding, signal transduction-associated protein 3	7.02	16.76	9
1520	IPI:IPI00118022.1	Ap2s1 AP-2 complex subunit sigma	7.02	28.17	5
1521	IPI:IPI00133557.1	Tppp3 Tubulin polymerization-promoting protein family member 3	7	40.34	7
1522	IPI:IPI00230623.8	Rpl32 60S ribosomal protein L32	6.99	39.26	6
1523	IPI:IPI00331579.1	Syng3 Synaptogyrin-3	6.99	14.85	4
1524	IPI:IPI00124282.1	Rala Ras-related protein Ral-A	6.98	19.42	6
1525	IPI:IPI00938439.1	Dpp3 dipeptidyl-peptidase 3	6.97	15.18	8
1526	IPI:IPI00125931.1	Cstb Cystatin-B	6.97	63.27	7
1527	IPI:IPI00132390.5	Ndufb4;Gm3244;Gm3873 NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 4	6.97	45.74	4
1528	IPI:IPI00470004.3	Endod1 Endonuclease domain-containing 1 protein	6.97	14.77	4
1529	IPI:IPI00119545.2	Pfdn2 Prefoldin subunit 2	6.96	28.57	5
1530	IPI:IPI00223055.3	Qars glutamyl-tRNA synthetase isoform 1	6.95	8.387	5
1531	IPI:IPI00755161.2	Osbp oxysterol-binding protein 1	6.95	7.826	6
1532	IPI:IPI00135677.2	Ehd3 EH domain-containing protein 3	6.95	12.15	6
1533	IPI:IPI00123063.5	Clip1 Isoform 1 of CAP-Gly domain-containing linker protein 1	6.94	4.529	4
1534	IPI:IPI00622371.3	Eif3g Eukaryotic translation initiation factor 3 subunit G	6.94	19.69	6
1535	IPI:IPI00119663.3	Mapk1 Mitogen-activated protein kinase 1	6.93	30.45	9
1536	IPI:IPI00755997.2	Golga2 golgin subfamily A member 2 isoform a	6.93	7.895	6
1537	IPI:IPI00756139.1	Syp Syp protein	6.92	14.61	9
1538	IPI:IPI00830514.1	Ddx42 Isoform 2 of ATP-dependent RNA helicase DDX42	6.92	10	5
1539	IPI:IPI00280629.9	Tdrd7 Tudor domain-containing protein 7	6.92	6.077	5
1540	IPI:IPI00659000.1	Gm12657 predicted gene 12657	6.91	30.15	5
1541	IPI:IPI00120083.1	Tmem43 Transmembrane protein 43	6.9	13.5	4
1542	IPI:IPI00124610.1	Arl8a ADP-ribosylation factor-like protein 8A	6.9	33.87	6
1543	IPI:IPI00874728.1	Tpm2 Isoform 2 of Tropomyosin beta chain	6.9	31.69	12
1544	IPI:IPI00971257.1	Gm10166 similar to Ac2-210 isoform 2	6.89	23.04	7
1545	IPI:IPI00223793.2	Traf3ip3 TRAF3-interacting JNK-activating modulator	6.88	12.48	5

1546	IPI:IPI00121575.1	Alg2 Alpha-1,3-mannosyltransferase ALG2	6.88	12.77	6
1547	IPI:IPI00816839.1	Sae1 Isoform 2 of SUMO-activating enzyme subunit 1	6.88	26.52	8
1548	IPI:IPI00968359.2	Slc6a9 Isoform GlyT-1C of Sodium- and chloride-dependent glycine transporter 1	6.87	6.503	4
1549	IPI:IPI00127598.1	Atpif1 ATPase inhibitor, mitochondrial	6.87	23.58	5
1550	IPI:IPI00127021.1	Nedd8 NEDD8	6.86	30.86	6
1551	IPI:IPI00225732.4	Lpcat1 Isoform 1 of Lysophosphatidylcholine acyltransferase 1	6.84	9.176	5
1552	IPI:IPI00117168.3	Dpy30 Protein dpy-30 homolog	6.84	47.47	5
1553	IPI:IPI00111958.2	Urod Uroporphyrinogen decarboxylase	6.82	12.53	4
1554	IPI:IPI00173138.1	Pcif1 Phosphorylated CTD-interacting factor 1	6.82	6.799	5
1555	IPI:IPI00761513.1	Faf2 Isoform 2 of FAS-associated factor 2	6.82	15.49	4
1556	IPI:IPI00119239.2	Psmb6 Proteasome subunit beta type-6	6.81	24.79	6
1557	IPI:IPI00331332.6	Ndufa5 NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 5	6.8	63.79	5
1558	IPI:IPI00754704.2	Farsa Farsla protein	6.79	19.72	8
1559	IPI:IPI00875944.1	Pex5l 73 kDa protein	6.78	6.525	4
1560	IPI:IPI00845675.1	Pfn2 Isoform 3 of Profilin-2	6.77	38.46	7
1561	IPI:IPI00124372.3	Aldh9a1 4-trimethylaminobutyraldehyde dehydrogenase	6.75	7.915	5
1562	IPI:IPI00956919.1	Oxr1 Isoform 4 of Oxidation resistance protein 1	6.72	9.654	6
1563	IPI:IPI00124127.1	Sms;Gm14680 Spermine synthase	6.72	13.93	3
1564	IPI:IPI00874350.1	Aldh3a2 Putative uncharacterized protein	6.71	16.9	7
1565	IPI:IPI00136251.1	Dnaja2 DnaJ homolog subfamily A member 2	6.71	17.48	6
1566	IPI:IPI00850520.1	LOC100045667 similar to Dopachrome tautomerase	6.69	12.34	6
1567	IPI:IPI00127941.1	1110004F10Rik Small acidic protein	6.69	28.18	5
1568	IPI:IPI00322267.5	Adprhl2 Isoform 1 of Poly(ADP-ribose) glycohydrolase ARH3	6.67	12.43	4
1569	IPI:IPI00230429.4	Kpna3 Importin subunit alpha-3	6.65	12.09	4
1570	IPI:IPI00553807.3	Dlg1 Isoform 2 of Disks large homolog 1	6.65	8.959	8
1571	IPI:IPI00120089.1	Klc4 Kinesin light chain 4	6.64	7.108	5
1572	IPI:IPI00556700.2	Eif3j Putative uncharacterized protein	6.64	25.67	4
1573	IPI:IPI00420426.1	Ap3b2 AP-3 complex subunit beta-2	6.63	10.63	9
1574	IPI:IPI00323624.3	C3 Isoform Long of Complement C3 (Fragment)	6.62	4.57	5
1575	IPI:IPI00474970.2	Gm9761;LOC100047744 similar to MGC89287 protein	6.61	35.9	7
1576	IPI:IPI00420870.4	Ogt Isoform 1 of UDP-N-acetylglucosamine--peptide N-acetylglucosaminyltransferase 110 kDa subunit	6.61	4.876	3
1577	IPI:IPI00620804.2	Klc1 Kinesin light chain 1T (Fragment)	6.61	9.119	6
1578	IPI:IPI00223060.1	Pck2 phosphoenolpyruvate carboxykinase [GTP], mitochondrial	6.6	8.846	4

1579	IPI:IPI00663627.1	Flnb Filamin-B	6.57	4.535	9
1580	IPI:IPI00387379.1	Decr1 2,4-dienoyl-CoA reductase, mitochondrial	6.57	18.81	4
1581	IPI:IPI00856488.1	Sf1 Uncharacterized protein	6.56	22.07	9
1582	IPI:IPI00648315.1	Rpl19 60S ribosomal protein L19 isoform 2	6.56	20.1	4
1583	IPI:IPI00876069.1	Ranbp3 52 kDa protein	6.55	12.83	4
1584	IPI:IPI00123505.2	Syp Synaptophysin	6.55	14.33	9
1585	IPI:IPI00857642.1	Puf60 Isoform 3 of Poly(U)-binding-splicing factor PUF60	6.54	24.85	8
1586	IPI:IPI00330862.5	Ezr;LOC100044177 Ezrin	6.53	25.77	20
1587	IPI:IPI00153990.1	Actr1b Beta-centractin	6.52	38.83	14
1588	IPI:IPI00134234.1	Grifin Grifin	6.5	31.94	4
1589	IPI:IPI00311948.3	Sf3b5 Splicing factor 3B subunit 5	6.49	38.37	3
1590	IPI:IPI00467854.1	Clip2 Isoform 1 of CAP-Gly domain-containing linker protein 2	6.49	3.438	3
1591	IPI:IPI00396803.2	Guca1a Guanylyl cyclase-activating protein 1	6.48	40.59	9
1592	IPI:IPI00468605.4	Nlgn2 Neuroligin-2	6.48	8.254	6
1593	IPI:IPI00111151.2	Rph3a Rabphilin-3A	6.48	8.517	4
1594	IPI:IPI00649157.1	Stmn1 Stathmin	6.48	42.16	7
1595	IPI:IPI00380281.4	Sf3a2 splicing factor 3A subunit 2	6.47	12.16	3
1596	IPI:IPI00171974.1	Chmp4b Charged multivesicular body protein 4b	6.47	22.32	5
1597	IPI:IPI00894844.1	Tulp1 Tubby like protein 1	6.46	10.29	5
1598	IPI:IPI00857621.1	Snx3 Uncharacterized protein	6.45	35	6
1599	IPI:IPI00849678.1	LOC100046972 similar to RNA-binding protein	6.44	23.55	9
1600	IPI:IPI00227843.6	Tpp2 Isoform Short of Tripeptidyl-peptidase 2	6.43	4.484	5
1601	IPI:IPI00775775.1	Gripap1 Gripap1 protein	6.43	14.22	7
1602	IPI:IPI00656221.1	Supt5h Isoform 1 of Transcription elongation factor SPT5	6.41	7.024	5
1603	IPI:IPI00670400.2	Apoo Putative uncharacterized protein	6.41	37.2	4
1604	IPI:IPI00625950.2	Aprt adenine phosphoribosyltransferase	6.4	23.89	4
1605	IPI:IPI00626239.3	Rpl11 Ribosomal protein L11	6.39	20.44	4
1606	IPI:IPI00133399.1	Ndufa6 NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 6	6.36	39.69	5
1607	IPI:IPI00223767.3	Pank4 Isoform 2 of Pantothenate kinase 4	6.35	5.433	3
1608	IPI:IPI00321647.2	Eif3c Eukaryotic translation initiation factor 3 subunit C	6.35	8.013	6
1609	IPI:IPI00130102.4	Des Desmin	6.34	24.95	21
1610	IPI:IPI00894741.1	Edc4 Uncharacterized protein	6.34	8.649	6
1611	IPI:IPI00889924.1	Timm44 mitochondrial import inner membrane translocase subunit TIM44 precursor	6.33	11.06	5
1612	IPI:IPI00404707.1	Rbm14 Isoform 1 of RNA-binding protein 14	6.33	7.175	5
1613	IPI:IPI00459145.1	Trmt112 MCG130245, isoform CRA_b	6.33	55.56	4
1614	IPI:IPI00850737.1	Mut methylmalonyl-CoA mutase, mitochondrial precursor	6.33	10.43	5

1615	IPI:IPI00118832.1	Erp29 Endoplasmic reticulum resident protein 29	6.32	13.36	4
1616	IPI:IPI00828623.1	Cd44 Isoform 4 of CD44 antigen	6.32	9.174	5
1617	IPI:IPI00662342.3	1110020G09Rik Isoform 1 of UPF0465 protein C5orf33 homolog	6.31	18.81	6
1618	IPI:IPI00123281.1	Lrrc59 Leucine-rich repeat-containing protein 59	6.31	16.29	3
1619	IPI:IPI00971268.1	Gm10362 similar to Rpl17 protein	6.31	15.83	5
1620	IPI:IPI00265025.5	Galk1 galactokinase	6.3	15.31	5
1621	IPI:IPI00125493.5	Mylk myosin light chain kinase, smooth muscle	6.3	1.897	4
1622	IPI:IPI00454050.1	Supt6h Transcription elongation factor SPT6	6.29	4.693	6
1623	IPI:IPI00480414.2	Rtn3 Isoform 2 of Reticulon-3	6.29	6.667	7
1624	IPI:IPI00120066.5	Prom1 Isoform 1 of Prominin-1	6.28	7.036	4
1625	IPI:IPI00110588.4	Msn Moesin	6.27	26.52	17
1626	IPI:IPI00653237.2	Wdr7 Wdr7 protein	6.27	6.177	5
1627	IPI:IPI00172146.6	Dhdh Trans-1,2-dihydrobenzene-1,2-diol dehydrogenase	6.27	27.03	6
1628	IPI:IPI00653383.2	Tnfaip3 tumor necrosis factor, alpha-induced protein 3 isoform 1	6.27	9.29	4
1629	IPI:IPI00132250.1	Eif3e Eukaryotic translation initiation factor 3 subunit E	6.27	9.663	3
1630	IPI:IPI00750917.2	Atp2b4 ATPase, Ca++ transporting, plasma membrane 4	6.27	14.91	17
1631	IPI:IPI00890905.1	Faim fas apoptotic inhibitory molecule 1 Faim-L	6.27	18.41	4
1632	IPI:IPI00880482.1	Clasp1 CLIP-associating protein 1 isoform 2	6.27	3.406	4
1633	IPI:IPI00621975.2	LOC100046698 similar to Probable ATP-dependent RNA helicase DDX46	6.24	6.141	5
1634	IPI:IPI00457668.1	Scfd1 Isoform 3 of Sec1 family domain-containing protein 1	6.24	9.045	3
1635	IPI:IPI00228620.5	Gnat2 Guanine nucleotide-binding protein G(t) subunit alpha-2	6.23	32.2	16
1636	IPI:IPI00112032.2	Carkd carbohydrate kinase domain-containing protein precursor	6.23	24.38	7
1637	IPI:IPI00556768.1	Thrap3 Thyroid hormone receptor-associated protein 3	6.23	5.258	3
1638	IPI:IPI00336509.5	Fam114a2 Isoform 1 of Protein FAM114A2	6.23	14.08	5
1639	IPI:IPI00648918.3	Myo18a Isoform 4 of Myosin-XVIIIa	6.23	1.702	3
1640	IPI:IPI00115650.4	Cacybp Calcyclin-binding protein	6.22	38.43	6
1641	IPI:IPI00318496.1	Gad1 Glutamate decarboxylase 1	6.22	7.589	4
1642	IPI:IPI00128240.5	Selm Selenoprotein M	6.22	26.21	4
1643	IPI:IPI00753932.1	- similar to acidic ribosomal phosphoprotein P1 isoform 1	6.22	48.25	5
1644	IPI:IPI00124639.1	Nt5c 5'(3')-deoxyribonucleotidase, cytosolic type	6.21	26	6
1645	IPI:IPI00453771.2	Ykt6 Synaptobrevin homolog YKT6	6.21	26.26	4
1646	IPI:IPI00132206.2	Dnajc5 DnaJ homolog subfamily C member 5	6.2	54.55	8

1647	IPI:IPI00125807.3	Mpi Mannose-6-phosphate isomerase	6.2	14.42	4
1648	IPI:IPI00944047.1	Prom1 prominin-1 isoform s8	6.19	12.71	7
1649	IPI:IPI00124820.2	Coro1c Coronin-1C	6.19	16.46	6
1650	IPI:IPI00121736.1	Pdcd6 Programmed cell death protein 6	6.19	31.94	4
1651	IPI:IPI00970354.1	Ctnna2 Uncharacterized protein	6.19	12.53	11
1652	IPI:IPI00111359.2	Gsr Isoform Mitochondrial of Glutathione reductase, mitochondrial	6.18	9.4	3
1653	IPI:IPI00117811.3	Ap3d1 AP-3 complex subunit delta-1	6.18	6.839	4
1654	IPI:IPI00153642.1	Ubqln1 Isoform 1 of Ubiquilin-1	6.18	17.53	8
1655	IPI:IPI00918348.1	Pabpn1;Bcl2l2 Uncharacterized protein	6.18	38.22	6
1656	IPI:IPI00420651.3	Ppp1r9b Isoform 1 of Neurabin-2	6.17	6.977	5
1657	IPI:IPI00876343.1	Hip1r huntingtin-interacting protein 1-related protein	6.17	5.524	5
1658	IPI:IPI00222429.6	Nomo1 Nodal modulator 1	6.17	4.613	5
1659	IPI:IPI00831423.1	Tpm1 29 kDa protein	6.17	37.5	14
1660	IPI:IPI00405742.6	Plxb2 plexin B2	6.17	2.497	4
1661	IPI:IPI00653398.1	Flot2 Putative uncharacterized protein	6.16	10.31	3
1662	IPI:IPI00877320.1	Alpl alkaline phosphatase, tissue-nonspecific isozyme precursor	6.16	10.11	5
1663	IPI:IPI00411097.2	2610101N10Rik Isoform 3 of U2-associated protein SR140	6.15	4.772	4
1664	IPI:IPI00315302.5	Ndufa2 NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 2	6.15	25.25	4
1665	IPI:IPI00749697.1	Stam Signal transducing adaptor molecule (SH3 domain and ITAM motif) 1	6.15	11.04	4
1666	IPI:IPI00222763.1	Srsf7 Isoform 1 of Serine/arginine-rich splicing factor 7	6.15	21.72	8
1667	IPI:IPI00317356.1 0	Pon1 Serum paraoxonase/arylesterase 1	6.15	13.8	4
1668	IPI:IPI00857897.1	Pspc1 Isoform 2 of Paraspeckle component 1	6.15	12.23	4
1669	IPI:IPI00928550.1	Ggt7 gamma-glutamyltransferase 7	6.14	10.27	4
1670	IPI:IPI00881462.1	Fip1l1 Uncharacterized protein	6.14	10.57	3
1671	IPI:IPI00420185.1	Eps15l1 Isoform 1 of Epidermal growth factor receptor substrate 15-like 1	6.14	6.064	3
1672	IPI:IPI00221540.1	Erlin2 Erlin-2	6.13	20.29	6
1673	IPI:IPI00331602.1	Kcnb1 Potassium voltage gated channel, Shab-related subfamily, member 1	6.13	7.701	4
1674	IPI:IPI00830853.1	2610101N10Rik Isoform 1 of U2-associated protein SR140	6.13	3.693	3
1675	IPI:IPI00885725.1	Cpne1 Protein	6.12	4.912	3
1676	IPI:IPI00263899.6	Nqo1 NAD(P)H dehydrogenase [quinone] 1	6.12	14.23	4
1677	IPI:IPI00170164.5	Rgs9bp Regulator of G-protein signaling 9-binding protein	6.12	19.41	3
1678	IPI:IPI00309322.3	Hmox2 Heme oxygenase 2	6.12	19.05	5

1679	IPI:IPI00831371.1	D2hgdh 61 kDa protein	6.11	11.49	5
1680	IPI:IPI00831305.1	Pcp4;lgsf5 Uncharacterized protein	6.11	20.3	13
1681	IPI:IPI00221817.5	Vwa5a von Willebrand factor A domain-containing protein 5A	6.11	6.179	4
1682	IPI:IPI00880252.1	Serpinh1 serpin H1 precursor	6.11	15.11	4
1683	IPI:IPI00114862.1	Thumpd1;LOC100048066 THUMP domain-containing protein 1	6.1	11.71	3
1684	IPI:IPI00775790.1	Fhl1 Four and a half LIM domains 1	6.1	12.94	5
1685	IPI:IPI00331165.2	Synpr Isoform 2 of Synaptopodin	6.1	17.89	5
1686	IPI:IPI00625729.2	Krt1 Keratin, type II cytoskeletal 1	6.1	13.66	8
1687	IPI:IPI00275455.2	Rps18-ps3;LOC100047828 similar to ribosomal protein isoform 1	6.1	20.98	4
1688	IPI:IPI00314844.2	Twf1 Twinfilin-1	6.09	15.71	4
1689	IPI:IPI00124790.1	Reep6 Isoform 1 of Receptor expression-enhancing protein 6	6.09	15.42	4
1690	IPI:IPI00318048.5	Nop56 Nucleolar protein 56	6.09	6.552	3
1691	IPI:IPI00135969.2	Adss Adenylosuccinate synthetase isozyme 2	6.09	13.6	4
1692	IPI:IPI00652781.3	Camk1d Putative uncharacterized protein	6.08	13.06	4
1693	IPI:IPI00230338.3	Dbn1 Isoform A2 of Drebrin	6.08	15.22	4
1694	IPI:IPI00465946.1	Fam98b Protein FAM98B	6.08	12.12	3
1695	IPI:IPI00123202.1	Atxn10 Ataxin-10	6.08	11.37	4
1696	IPI:IPI00626620.2	Sec24c Sec24 related gene family, member C isoform 2	6.08	6.471	4
1697	IPI:IPI00121151.1	Ubxn6 Isoform 1 of UBX domain-containing protein 6	6.08	10.18	3
1698	IPI:IPI00671398.1	- similar to ribosomal protein S8 isoform 1	6.08	19.23	4
1699	IPI:IPI00876084.1	Gpd2 Glycerol-3-phosphate dehydrogenase, mitochondrial	6.07	14.44	7
1700	IPI:IPI00137736.1	Gm10443;Rps28 40S ribosomal protein S28	6.07	30.43	4
1701	IPI:IPI00135512.1	Cnpy2 Protein canopy homolog 2	6.07	28.02	4
1702	IPI:IPI00112641.2	Sep15 15 kDa selenoprotein	6.07	17.9	5
1703	IPI:IPI00113052.1	Tsfm Elongation factor Ts, mitochondrial	6.07	19.14	3
1704	IPI:IPI00650029.1	Sparc Secreted acidic cysteine rich glycoprotein	6.07	15.28	3
1705	IPI:IPI00117146.1	Psph Phosphoserine phosphatase	6.07	15.56	3
1706	IPI:IPI00857048.1	Nagk Putative uncharacterized protein	6.06	12.47	3
1707	IPI:IPI00648654.1	Dusp3 Dual specificity phosphatase 3	6.06	20	4
1708	IPI:IPI00877182.1	Capza1 F-actin-capping protein subunit alpha-1	6.06	23.43	8
1709	IPI:IPI00453798.3	Tmx3 Protein disulfide-isomerase TMX3	6.06	7.237	4
1710	IPI:IPI00757372.2	Isoc2a Isochorismatase domain-containing protein 2A, mitochondrial	6.06	35.92	5
1711	IPI:IPI00120270.2	Tnfaip3 tumor necrosis factor, alpha-induced protein 3 isoform 2	6.06	8.867	4
1712	IPI:IPI00330903.3	Pank4 Isoform 1 of Pantothenate kinase 4	6.06	4.756	4

1713	IPI:IPI00776358.1	Acat3 acetyl-Coenzyme A acetyltransferase 3	6.06	21.41	7
1714	IPI:IPI00230449.7	Hpcal1 Hippocalcin-like protein 1	6.05	46.11	9
1715	IPI:IPI00406639.2	Ampd2 AMP deaminase 2	6.05	5.013	4
1716	IPI:IPI00139259.1	Tra2b Isoform 1 of Transformer-2 protein homolog beta	6.05	15.97	5
1717	IPI:IPI00263042.3	Naa38 N-alpha-acetyltransferase 38, NatC auxiliary subunit	6.05	59.38	4
1718	IPI:IPI00882339.1	Nmral1 Uncharacterized protein	6.05	14.38	5
1719	IPI:IPI00118569.1	Gna13 Guanine nucleotide-binding protein subunit alpha-13	6.05	14.06	9
1720	IPI:IPI00123802.5	Hsph1 Isoform HSP105-alpha of Heat shock protein 105 kDa	6.05	5.828	5
1721	IPI:IPI00309262.3	Cdk5 Cell division protein kinase 5	6.04	18.15	5
1722	IPI:IPI00515257.1	Btf3 Isoform 1 of Transcription factor BTF3	6.04	38.73	3
1723	IPI:IPI00312752.3	Sh3gl1 Endophilin-A2	6.04	17.93	7
1724	IPI:IPI00608064.1	Fech Fech protein (Fragment)	6.04	13.03	4
1725	IPI:IPI00132412.3	Mrpl10 39S ribosomal protein L10, mitochondrial	6.04	21.76	4
1726	IPI:IPI00406193.4	Iqgap2 Ras GTPase-activating-like protein IQGAP2	6.04	2.603	4
1727	IPI:IPI00830581.1	Hsd17b10 3-hydroxyacyl-CoA dehydrogenase type-2	6.03	38.31	5
1728	IPI:IPI00224570.3	Prkar2b cAMP-dependent protein kinase type II-beta regulatory subunit	6.03	16.59	9
1729	IPI:IPI00130118.1	Rab10 Ras-related protein Rab-10	6.03	33.5	8
1730	IPI:IPI00830189.2	Scly Isoform 1 of Selenocysteine lyase	6.03	10.65	3
1731	IPI:IPI00138089.4	Lrrc47 Leucine-rich repeat-containing protein 47	6.03	6.713	3
1732	IPI:IPI00352475.3	Pdap1 28 kDa heat- and acid-stable phosphoprotein	6.03	16.57	3
1733	IPI:IPI00133591.1	Vps28 Vacuolar protein sorting-associated protein 28 homolog	6.03	27.15	5
1734	IPI:IPI00123891.3	Csrp1 Cysteine and glycine-rich protein 1	6.03	36.79	4
1735	IPI:IPI00753915.2	LOC674706 similar to Zinc finger protein 341	6.03	3.346	3
1736	IPI:IPI00876489.1	Sirpa tyrosine-protein phosphatase non-receptor type substrate 1 isoform 1	6.03	10.22	3
1737	IPI:IPI00119180.1	Ppp5c Serine/threonine-protein phosphatase 5	6.03	12.83	4
1738	IPI:IPI00875998.1	Uck1 Uridine-cytidine kinase 1	6.03	18.77	3
1739	IPI:IPI00930754.1	Sept2 septin-2 b	6.03	21.5	5
1740	IPI:IPI00762803.1	Atp5l-ps1 Uncharacterized protein	6.03	35.92	3
1741	IPI:IPI00132692.2	Magoh-rs1 protein mago nashi homolog 1-related	6.03	29.05	3
1742	IPI:IPI00944126.1	Tpm1 tropomyosin alpha-1 chain isoform 8	6.02	40.73	15
1743	IPI:IPI00263028.1	Cdkn2aip CDKN2A-interacting protein	6.02	7.105	3
1744	IPI:IPI00338302.1	Pgm1;Pgm2 Phosphoglucomutase-2	6.02	6.935	3
1745	IPI:IPI00420346.3	Smug1 Single-strand selective monofunctional uracil DNA glycosylase	6.02	18.28	3
1746	IPI:IPI00317701.2	Cops7a Isoform 2 of COP9 signalosome complex	6.02	17.69	3

		subunit 7a			
1747	IPI:IPI00132959.1	Hddc3 HD domain-containing protein 3	6.02	24.58	3
1748	IPI:IPI00760011.1	Snx6 Putative uncharacterized protein	6.02	7.389	3
1749	IPI:IPI00928109.1	Apex1 32 kDa protein	6.02	19.03	4
1750	IPI:IPI00223759.2	Vps26b Isoform 1 of Vacuolar protein sorting-associated protein 26B	6.02	12.5	4
1751	IPI:IPI00742413.1	Prpf31 Isoform 3 of U4/U6 small nuclear ribonucleoprotein Prp31	6.02	11.11	3
1752	IPI:IPI00329953.1	Stx7 Syntaxin-7	6.02	21.07	3
1753	IPI:IPI00124212.2	Ccdc136 coiled-coil domain-containing protein 136	6.02	3.707	3
1754	IPI:IPI00121300.1	Msi1 Isoform 1 of RNA-binding protein Musashi homolog 1	6.01	16.02	8
1755	IPI:IPI00970258.1	- ENH isoform 1e	6.01	9.446	3
1756	IPI:IPI00115190.1	Pde6d Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit delta	6.01	25.33	3
1757	IPI:IPI00120671.2	Isca2 Iron-sulfur cluster assembly 2 homolog, mitochondrial	6.01	31.17	4
1758	IPI:IPI00173160.3	Rps27 40S ribosomal protein S27	6.01	39.29	4
1759	IPI:IPI00118795.1	Csnk2a2 Casein kinase II subunit alpha'	6.01	14	6
1760	IPI:IPI00331463.1	Atpif1 ATPase inhibitor, mitochondrial precursor	6.01	33.96	4
1761	IPI:IPI00109791.3	Cygb Cytoglobin	6.01	24.21	4
1762	IPI:IPI00137601.2	Taco1 Translational activator of cytochrome c oxidase 1	6.01	17.69	3
1763	IPI:IPI00875866.1	Dnajc5 23 kDa protein	6.01	19.61	4
1764	IPI:IPI00136618.1	Tollip Toll-interacting protein	6.01	20.07	5
1765	IPI:IPI00874578.1	Gm5097 Uncharacterized protein	6.01	14.17	3
1766	IPI:IPI00466820.4	Rps8;Gm15501 40S ribosomal protein S8	6	34.62	7
1767	IPI:IPI00649303.3	Abca8a ATP-binding cassette, sub-family A (ABC1), member 8a	6	44.08	9
1768	IPI:IPI00132276.1	Vamp3 Vesicle-associated membrane protein 3	6	44.66	9
1769	IPI:IPI00221788.3	Hpcal4 Hippocalcin-like protein 4	6	35.08	7
1770	IPI:IPI00331528.9	Glrx Glutaredoxin-1	6	30.84	4
1771	IPI:IPI00341869.5	Nucks1 Nuclear ubiquitous casein and cyclin-dependent kinases substrate	6	18.8	3
1772	IPI:IPI00228236.6	Spcs2 Signal peptidase complex subunit 2	6	16.37	3
1773	IPI:IPI00111117.5	Arpc5l Actin-related protein 2/3 complex subunit 5-like protein	6	45.1	5
1774	IPI:IPI00653664.2	Enoph1 Isoform 1 of Enolase-phosphatase E1	6	19.46	3
1775	IPI:IPI00331014.1	4930572J05Rik UPF0670 protein C8orf55 homolog	6	25.12	4
1776	IPI:IPI00944702.1	Tsr2 pre-rRNA-processing protein TSR2 homolog isoform 1	6	25.13	4
1777	IPI:IPI00944162.1	U2af1 splicing factor U2AF 35 kDa subunit isoform 2	6	29.29	6
1778	IPI:IPI00648763.1	Ddx5 DEAD (Asp-Glu-Ala-Asp) box polypeptide 5	6	39.89	9

1779	IPI:IPI00134378.9	Tmed7 transmembrane emp24 protein transport domain containing 7	6	18.3	4
1780	IPI:IPI00331251.1	Acads Putative uncharacterized protein	6	14.81	3
1781	IPI:IPI00471077.3	Txndc17 Thioredoxin domain-containing protein 17	6	28.46	3
1782	IPI:IPI00114377.1	Cox7a2 Cytochrome c oxidase subunit 7A2, mitochondrial	6	37.35	6
1783	IPI:IPI00331241.8	Gsta3 Glutathione S-transferase A3	6	18.55	5
1784	IPI:IPI00885860.1	Apoc3 15 kDa protein	6	35.04	3
1785	IPI:IPI00776162.3	Eif4g2 eukaryotic translation initiation factor 4 gamma 2 isoform 1	6	5.188	4
1786	IPI:IPI00378187.2	Rbm3 putative RNA-binding protein 3 isoform 1	6	38.96	4
1787	IPI:IPI00127987.1	Arpc1a Actin-related protein 2/3 complex subunit 1A	6	10.81	3
1788	IPI:IPI00119116.1	Ppox Protoporphyrinogen oxidase	6	11.95	3
1789	IPI:IPI00322263.2	Rbm12 RNA-binding protein 12	5.99	2.823	3
1790	IPI:IPI00136701.1	Actn3 Alpha-actinin-3	5.97	14.22	13
1791	IPI:IPI00351206.5	Pgrmc2 Membrane-associated progesterone receptor component 2	5.96	27.65	5
1792	IPI:IPI00407413.2	Scand3 SCAN domain containing 3	5.95	6.217	4
1793	IPI:IPI00135604.5	Pcsk1n ProSAAS	5.95	13.95	3
1794	IPI:IPI00111235.2	Aldh3a2 Fatty aldehyde dehydrogenase variant form	5.95	11.44	6
1795	IPI:IPI00153468.1	Tmed4 Transmembrane emp24 domain-containing protein 4	5.94	23.79	7
1796	IPI:IPI00117416.1	Cox4nb Neighbor of COX4	5.93	20.29	3
1797	IPI:IPI00762774.2	Eif3d Eukaryotic translation initiation factor 3 subunit D	5.93	7.299	3
1798	IPI:IPI00856164.1	Eif4g1 Putative uncharacterized protein	5.92	3.653	4
1799	IPI:IPI00273232.6	Spag7;LOC100048812 Sperm-associated antigen 7	5.92	28.63	5
1800	IPI:IPI00759876.2	Comt1 catechol O-methyltransferase	5.92	21.51	4
1801	IPI:IPI00874800.1	Akr1e1 Uncharacterized protein	5.91	13.92	3
1802	IPI:IPI00749628.1	Gm9104 ribosomal protein L21-like	5.91	30.63	4
1803	IPI:IPI00230365.5	Krt17 Keratin, type I cytoskeletal 17	5.91	4.157	3
1804	IPI:IPI00131896.1	Brp44 Brain protein 44	5.9	25.98	3
1805	IPI:IPI00311335.5	Papss1 Bifunctional 3'-phosphoadenosine 5'-phosphosulfate synthase 1	5.89	8.173	3
1806	IPI:IPI00886250.1	Tollip Toll interacting protein, isoform CRA_b	5.88	18.54	3
1807	IPI:IPI00114017.2	Anxa7 annexin A7	5.88	6.911	5
1808	IPI:IPI00889927.2	Ubap2l ubiquitin-associated protein 2-like isoform 6	5.87	4.374	3
1809	IPI:IPI00403802.1	Impg2 Isoform 1 of Interphotoreceptor matrix proteoglycan 2	5.87	3.781	5

1810	IPI:IPI00828649.1	Dnajc11 dnaJ homolog subfamily C member 11	5.86	6.798	3
1811	IPI:IPI00133537.1	Cdkn1b Cyclin-dependent kinase inhibitor 1B	5.85	26.4	4
1812	IPI:IPI00830509.1	Tnni2 Troponin I, skeletal, fast 2	5.84	23.7	3
1813	IPI:IPI00331016.1	Sec24b Sec24 related gene family, member B	5.83	5.276	4
1814	IPI:IPI00115668.1	Dpm1 Dolichol-phosphate mannosyltransferase	5.83	10.38	3
1815	IPI:IPI00123465.1	Cops7a Isoform 1 of COP9 signalosome complex subunit 7a	5.83	15.64	4
1816	IPI:IPI00894786.1	Lancl1 LanC (Bacterial lantibiotic synthetase component C)-like 1, isoform CRA_a	5.82	12.03	4
1817	IPI:IPI00127983.1	Gm10698;Tmed2 Transmembrane emp24 domain-containing protein 2	5.81	18.41	4
1818	IPI:IPI00128416.3	Crygn Gamma-crystallin N	5.81	23.5	4
1819	IPI:IPI00322749.3	Snrpd1 Small nuclear ribonucleoprotein Sm D1	5.8	36.97	3
1820	IPI:IPI00322617.1	Ncam2 Isoform Short of Neural cell adhesion molecule 2	5.79	8.391	4
1821	IPI:IPI00170084.1	Appl1 DCC-interacting protein 13-alpha	5.79	9.618	4
1822	IPI:IPI00453829.3	Tmx4 Thioredoxin-related transmembrane protein 4	5.79	12.84	4
1823	IPI:IPI00807902.1	Mtch2 Mtch2 protein (Fragment)	5.79	18.73	4
1824	IPI:IPI00165731.3	Abhd12 Monoacylglycerol lipase ABHD12	5.78	11.06	3
1825	IPI:IPI00626793.3	Cacna2d1 Isoform 2A of Voltage-dependent calcium channel subunit alpha-2/delta-1	5.78	4.714	4
1826	IPI:IPI00173248.2	Ank3 ankyrin 3, epithelial isoform a	5.77	6.025	7
1827	IPI:IPI00663582.1	LOC631751 similar to 40S ribosomal protein S14	5.77	33.11	4
1828	IPI:IPI00402982.2	Tmod2 Isoform 1 of Tropomodulin-2	5.76	20.51	4
1829	IPI:IPI00318898.3	Pgm3 Putative uncharacterized protein	5.76	10.22	5
1830	IPI:IPI00652784.1	Kif21a Putative uncharacterized protein	5.76	7.624	4
1831	IPI:IPI00139301.3	Krt5 Keratin, type II cytoskeletal 5	5.76	7.069	7
1832	IPI:IPI00776307.2	Cask Isoform 4 of Peripheral plasma membrane protein CASK	5.75	6.167	6
1833	IPI:IPI00454143.3	Sept11 Isoform 2 of Septin-11	5.74	10.02	4
1834	IPI:IPI00323166.2	Nnt NAD(P) transhydrogenase, mitochondrial	5.74	3.867	4
1835	IPI:IPI00323819.3	Rps20 40S ribosomal protein S20	5.72	30.25	4
1836	IPI:IPI00126551.1	Diras2 GTP-binding protein Di-Ras2	5.71	18.59	3
1837	IPI:IPI00224210.5	Uqcrcq Cytochrome b-c1 complex subunit 8	5.71	39.02	6
1838	IPI:IPI00112138.1	Mdp1 Magnesium-dependent phosphatase 1	5.7	24.39	4
1839	IPI:IPI00224128.7	Nmt1 Glycylpeptide N-tetradecanoyltransferase 1	5.7	9.879	3
1840	IPI:IPI00130381.1	Bat3 Large proline-rich protein BAT3	5.7	6.932	4
1841	IPI:IPI00849108.1	LOC100044719;LOC100048366 similar to G protein gamma-5 subunit	5.7	48.53	6
1842	IPI:IPI00751399.2	Ubxn7 UBX domain-containing protein 7	5.7	7.566	3
1843	IPI:IPI00135596.1	Kcnb1 Potassium voltage-gated channel subfamily B member 1	5.7	6.534	3

1844	IPI:IPI00115490.1	Pcyt1a Choline-phosphate cytidylyltransferase A	5.69	12.26	3
1845	IPI:IPI00876176.1	Ppm1b Isoform Beta-1 of Protein phosphatase 1B	5.68	13.08	4
1846	IPI:IPI00720073.1	Cd44 Isoform 13 of CD44 antigen	5.66	9.366	3
1847	IPI:IPI00882287.1	Etfdh Etfdh protein	5.66	12.05	4
1848	IPI:IPI00133734.1	Pde6g Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma	5.64	47.13	4
1849	IPI:IPI00118963.1	Mrpl12 39S ribosomal protein L12, mitochondrial	5.64	31.34	4
1850	IPI:IPI00943403.1	Flot2 Isoform 2 of Flotillin-2	5.63	15.42	4
1851	IPI:IPI00139364.1	Srsf4 Serine/arginine-rich splicing factor 4	5.62	15.75	9
1852	IPI:IPI00849514.1	LOC669787 similar to avenall	5.6	9.129	4
1853	IPI:IPI00406624.2	Mgea5 Isoform 3 of Bifunctional protein NCOAT	5.58	4.927	4
1854	IPI:IPI00135475.3	Dbn1 Isoform A of Drebrin	5.58	5.807	3
1855	IPI:IPI00648318.1	Ak2 Isoform 1 of Adenylate kinase 2, mitochondrial	5.57	22.18	5
1856	IPI:IPI00109932.1	Ddx6 Probable ATP-dependent RNA helicase DDX6	5.57	10.35	5
1857	IPI:IPI00331507.9	Cul5 cullin-5 isoform 1	5.57	9.006	6
1858	IPI:IPI00652233.1	Cspg5 Isoform 2 of Chondroitin sulfate proteoglycan 5	5.56	8.72	4
1859	IPI:IPI00877259.1	Hmbs porphobilinogen deaminase isoform 2	5.56	13.66	3
1860	IPI:IPI00266699.1	Aplp2 amyloid-like protein 2 isoform a	5.56	5.992	3
1861	IPI:IPI00885811.1	Arl8a Protein	5.55	32.73	3
1862	IPI:IPI00132217.1	Fis1 Mitochondrial fission 1 protein	5.53	30.26	4
1863	IPI:IPI00817040.1	Eif4g2 eukaryotic translation initiation factor 4 gamma 2 isoform 2	5.52	6.452	6
1864	IPI:IPI00138232.4	Gprin1 G protein-regulated inducer of neurite outgrowth 1	5.52	5.15	3
1865	IPI:IPI00556850.1	Acp1 acid phosphatase 1, soluble isoform 1	5.51	27.85	3
1866	IPI:IPI00116697.1	Rab6 Isoform 1 of Ras-related protein Rab-6A	5.49	31.73	5
1867	IPI:IPI00462482.3	Uap1l1 Isoform 1 of UDP-N-acetylhexosamine pyrophosphorylase-like protein 1	5.48	8.284	3
1868	IPI:IPI00129479.3	Pip4k2c Phosphatidylinositol-5-phosphate 4-kinase type-2 gamma	5.48	8.551	3
1869	IPI:IPI00466384.6	8030462N17Rik RIKEN cDNA 8030462N17, isoform CRA_a	5.47	7.519	3
1870	IPI:IPI00677102.1	LOC638399 hypothetical protein isoform 1	5.46	33.87	4
1871	IPI:IPI00453531.2	Prune Protein prune homolog	5.43	11.45	3
1872	IPI:IPI00123817.1	Atp6v1g2 V-type proton ATPase subunit G 2	5.43	39.83	5
1873	IPI:IPI00762919.2	Hip1 Huntingtin-interacting protein 1	5.43	5.831	3
1874	IPI:IPI00828470.1	Acp1 Isoform 2 of Low molecular weight phosphotyrosine protein phosphatase	5.43	27.85	3
1875	IPI:IPI00114818.1	Sec14l2 SEC14-like protein 2	5.42	11.91	5
1876	IPI:IPI00173157.4	2310003F16Rik Isoform 1 of Huntingtin-interacting protein K	5.4	36.43	3
1877	IPI:IPI00223216.5	Tst Thiosulfate sulfurtransferase	5.4	13.13	3

1878	IPI:IPI00131228.1	Pmm2 Phosphomannomutase 2	5.39	11.16	3
1879	IPI:IPI00756703.1	Ppp3ca Isoform 2 of Serine/threonine-protein phosphatase 2B catalytic subunit alpha isoform	5.39	8.023	3
1880	IPI:IPI00761620.1	Srrt Isoform B of Serrate RNA effector molecule homolog	5.38	10.68	7
1881	IPI:IPI00816946.1	Gphn gephyrin isoform 1	5.36	13.34	8
1882	IPI:IPI00118736.3	Ppm1b protein phosphatase 1B isoform 1	5.36	13.42	5
1883	IPI:IPI00798468.1	Usp9x Ubiquitin carboxyl-terminal hydrolase	5.36	2.111	7
1884	IPI:IPI00830901.1	4930583H14Rik Uncharacterized protein	5.35	26.12	3
1885	IPI:IPI00120232.1	Ndufs7 NADH dehydrogenase [ubiquinone] iron-sulfur protein 7, mitochondrial	5.34	14.73	3
1886	IPI:IPI00407665.3	Fuk L-fucose kinase short variant	5.34	5.79	3
1887	IPI:IPI00649191.2	Psme3 Proteasome (Prosome, macropain) 28 subunit, 3	5.33	20.38	5
1888	IPI:IPI00153234.2	Pycrl Pyrroline-5-carboxylate reductase 3	5.33	16.79	3
1889	IPI:IPI00624863.1	Paics Putative uncharacterized protein	5.33	10.82	4
1890	IPI:IPI00956860.1	Gsr Putative uncharacterized protein (Fragment)	5.32	9.731	3
1891	IPI:IPI00850054.1	LOC100045567 similar to purine nucleoside phosphorylase	5.32	26.88	5
1892	IPI:IPI00654180.1	Ppp2r5e Putative uncharacterized protein	5.31	6.928	3
1893	IPI:IPI00458854.2	Sart3 Isoform 1 of Squamous cell carcinoma antigen recognized by T-cells 3	5.3	4.782	4
1894	IPI:IPI00337980.5	Rab21 Ras-related protein Rab-21	5.3	17.12	4
1895	IPI:IPI00227730.1	Nhlrc2 NHL repeat-containing protein 2	5.3	6.897	3
1896	IPI:IPI00889899.1	Gm7251 hypothetical protein	5.29	48.43	59
1897	IPI:IPI00277001.4	Psma4 Proteasome subunit alpha type-4	5.29	16.48	3
1898	IPI:IPI00651798.1	Acsl3 long-chain-fatty-acid--CoA ligase 3 isoform a	5.29	7.778	3
1899	IPI:IPI00132722.8	Anxa3 Annexin A3	5.29	12.38	3
1900	IPI:IPI00321634.1	Lman2 Vesicular integral-membrane protein VIP36	5.28	10.89	3
1901	IPI:IPI00228583.5	Mtpn Myotrophin	5.28	45.76	4
1902	IPI:IPI00274407.1	Tufm Isoform 1 of Elongation factor Tu, mitochondrial	5.28	6.858	3
1903	IPI:IPI00875863.1	Rhot2 Mitochondrial Rho GTPase 2	5.27	17.9	8
1904	IPI:IPI00108844.1	M6pr Cation-dependent mannose-6-phosphate receptor	5.26	20.14	4
1905	IPI:IPI00314467.3	Psmb3 Proteasome subunit beta type-3	5.26	18.54	4
1906	IPI:IPI00225633.3	Sub1 Activated RNA polymerase II transcriptional coactivator p15	5.25	23.62	4
1907	IPI:IPI00121378.2	Alcam CD166 antigen	5.25	4.46	3
1908	IPI:IPI00845537.1	Rabep1 Isoform 6 of Rab GTPase-binding effector protein 1	5.25	6.134	4
1909	IPI:IPI00856974.1	Ctbp2 Isoform 2 of C-terminal-binding protein 2	5.24	4.656	5
1910	IPI:IPI00556775.2	Ptgr2 Isoform 2 of Prostaglandin reductase 2	5.24	14.87	4
1911	IPI:IPI00128642.1	Cbr2 Carbonyl reductase [NADPH] 2	5.22	15.57	4

1912	IPI:IPI00227928.3	Slc6a1 Sodium- and chloride-dependent GABA transporter 1	5.21	10.85	4
1913	IPI:IPI00136683.1	Acot2 Acyl-coenzyme A thioesterase 2, mitochondrial	5.21	9.272	4
1914	IPI:IPI00876341.1	Vdac3 Voltage-dependent anion-selective channel protein 3	5.21	20.49	8
1915	IPI:IPI00322440.5	Ube2k Ubiquitin-conjugating enzyme E2 K	5.19	34	5
1916	IPI:IPI00828965.1	Echdc1 Isoform 2 of Enoyl-CoA hydratase domain-containing protein 1	5.19	20.07	3
1917	IPI:IPI00473646.2	Rhot2 Uncharacterized protein	5.18	17.86	7
1918	IPI:IPI00403589.1	Erh;Gm10131 Enhancer of rudimentary homolog	5.18	48.08	6
1919	IPI:IPI00515140.1	As3mt Arsenite methyltransferase	5.18	11.7	3
1920	IPI:IPI00132950.1	Rps21 40S ribosomal protein S21	5.18	48.19	4
1921	IPI:IPI00874704.1	Gm12854 Uncharacterized protein	5.18	35.42	3
1922	IPI:IPI00874670.1	Abhd14b Uncharacterized protein	5.18	16.67	3
1923	IPI:IPI00919216.1	Phax phosphorylated adapter RNA export protein isoform 2	5.14	12.4	3
1924	IPI:IPI00129451.1	Cpne6 Copine-6	5.12	5.386	3
1925	IPI:IPI00317298.2	Snw1 SNW domain-containing protein 1	5.11	10.63	4
1926	IPI:IPI00938432.1	Mtx1 metaxin-1 isoform 2	5.11	7.826	3
1927	IPI:IPI00131368.3	Krt6a Keratin, type II cytoskeletal 6A	5.11	9.222	9
1928	IPI:IPI00649068.1	Elav2 ELAV (Embryonic lethal, abnormal vision, Drosophila)-like 2	5.1	5.412	3
1929	IPI:IPI00313390.3	Chchd6 Coiled-coil-helix-coiled-coil-helix domain-containing protein 6	5.09	12.24	3
1930	IPI:IPI00129107.1	Gipc1 PDZ domain-containing protein GIPC1	5.08	11.11	3
1931	IPI:IPI00130998.1	Rgr RPE-retinal G protein-coupled receptor	5.08	11.34	4
1932	IPI:IPI00474783.4	Acaca Isoform 1 of Acetyl-CoA carboxylase 1	5.08	2.345	4
1933	IPI:IPI00331283.2	Folr1 Folr1 protein	5.06	13.73	3
1934	IPI:IPI00896657.1	Copg2 Isoform 4 of Coatomer subunit gamma-2	5.05	3.678	3
1935	IPI:IPI00454052.1	A2m Alpha-2-macroglobulin-P	5.05	4.071	3
1936	IPI:IPI00170157.1	Hook1 Isoform 1 of Protein Hook homolog 1	5.05	4.533	3
1937	IPI:IPI00122101.6	Slc6a9 Isoform GlyT-1A of Sodium- and chloride-dependent glycine transporter 1	5.05	7.109	4
1938	IPI:IPI00230566.4	Gng7 guanine nucleotide-binding protein G(I)/G(S)/G(O) subunit gamma-7	5.04	63.77	4
1939	IPI:IPI00453735.1	Bfsp2 Isoform 1 of Phakinin	5.03	10.58	4
1940	IPI:IPI00116236.5	Gstt3 Glutathione S-transferase, theta 3	5.02	19.92	4
1941	IPI:IPI00130339.3	Bat5 Protein BAT5	5.02	7.527	4
1942	IPI:IPI00856773.1	Tial1 Tial1 protein	5.01	13.07	3
1943	IPI:IPI00880243.1	Cnot1 Isoform 4 of CCR4-NOT transcription complex subunit 1	5	1.81	3
1944	IPI:IPI00468894.2	Gngt2 Guanine nucleotide-binding protein	4.99	50.72	9

		G(I)/G(S)/G(O) subunit gamma-T2			
1945	IPI:IPI00322156.1	Slc38a3 Sodium-coupled neutral amino acid transporter 3	4.98	7.723	3
1946	IPI:IPI00115866.3	Hagh Isoform 1 of Hydroxyacylglutathione hydrolase, mitochondrial	4.98	14.89	3
1947	IPI:IPI00132993.1	Pak1 Serine/threonine-protein kinase PAK 1	4.98	14.13	6
1948	IPI:IPI00955134.1	Arpc4 Putative uncharacterized protein	4.97	16.07	3
1949	IPI:IPI00169998.2	Cbr3 carbonyl reductase 3	4.97	16.25	3
1950	IPI:IPI00122865.1	Scamp5 Secretory carrier-associated membrane protein 5	4.96	25.11	4
1951	IPI:IPI00943440.1	Ccar1 Isoform 3 of Cell division cycle and apoptosis regulator protein 1	4.96	3.229	3
1952	IPI:IPI00676841.1	Gm5081 hypothetical protein LOC328099	4.96	13.21	4
1953	IPI:IPI00109212.3	Snx2 Sorting nexin-2	4.95	13.29	6
1954	IPI:IPI00467747.2	Negr1 Putative uncharacterized protein	4.95	16.11	4
1955	IPI:IPI00113895.1	Actr1a Alpha-centractin	4.94	50	18
1956	IPI:IPI00126184.7	Gc Vitamin D-binding protein	4.94	7.143	3
1957	IPI:IPI00117569.3	Rps11 Putative uncharacterized protein	4.92	21.08	3
1958	IPI:IPI00315135.3	Tomm22 Mitochondrial import receptor subunit TOM22 homolog	4.91	42.25	3
1959	IPI:IPI00110852.4	Ssr1 Translocon-associated protein alpha, muscle specific isoform	4.91	20.13	4
1960	IPI:IPI00608021.1	Ddi2 Protein DDI1 homolog 2	4.9	11.78	3
1961	IPI:IPI00458001.1	Atxn2l Isoform 2 of Ataxin-2-like protein	4.9	4.097	3
1962	IPI:IPI00648247.1	Tdrd7 Tudor domain containing 7	4.9	3.217	3
1963	IPI:IPI00404981.1	Nae1 NEDD8-activating enzyme E1 regulatory subunit	4.89	7.116	2
1964	IPI:IPI00400301.2	Cpox Coproporphyrinogen-III oxidase, mitochondrial	4.89	11.96	3
1965	IPI:IPI00473196.1	Srsf10 Isoform 2 of Serine/arginine-rich splicing factor 10	4.88	16.86	4
1966	IPI:IPI00845769.1	Gpd1l Isoform 2 of Glycerol-3-phosphate dehydrogenase 1-like protein	4.87	15.63	4
1967	IPI:IPI00169979.2	Nmral1 Isoform 1 of NmrA-like family domain-containing protein 1	4.87	12.3	3
1968	IPI:IPI00319231.4	Rps15 40S ribosomal protein S15	4.85	29.66	5
1969	IPI:IPI00855186.2	Srp54c signal recognition particle 54C	4.85	7.738	3
1970	IPI:IPI00221688.2	Ublcp1 Isoform 1 of Ubiquitin-like domain-containing CTD phosphatase 1	4.83	8.176	3
1971	IPI:IPI00114246.2	Ndufb11 NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 11, mitochondrial	4.83	22.52	3
1972	IPI:IPI00330887.1	Negr1 Neuronal growth regulator 1	4.83	14.08	3
1973	IPI:IPI00462424.1	Rnps1 Isoform 1 of RNA-binding protein with serine-rich domain 1	4.82	16.07	4
1974	IPI:IPI00830423.1	Tnni2 Troponin I, skeletal, fast 2	4.81	18.95	4

1975	IPI:IPI00762051.1	Rpl24 60S ribosomal protein L24	4.81	19.11	3
1976	IPI:IPI00881105.1	Gnpda2 Isoform 1 of Glucosamine-6-phosphate isomerase 2	4.8	19.2	3
1977	IPI:IPI00111045.1	Timm50 Mitochondrial import inner membrane translocase subunit TIM50	4.75	12.18	3
1978	IPI:IPI00130240.1	Ppic Peptidyl-prolyl cis-trans isomerase C	4.75	25.47	6
1979	IPI:IPI00856781.1	Negr1 Uncharacterized protein	4.74	14.89	3
1980	IPI:IPI00915057.1	Acsl3 long-chain-fatty-acid--CoA ligase 3 isoform b	4.73	6.514	2
1981	IPI:IPI00169862.1	Coq9 Ubiquinone biosynthesis protein COQ9, mitochondrial	4.72	9.585	4
1982	IPI:IPI00226249.1	Ccdc104 Coiled-coil domain-containing protein 104	4.72	11.95	3
1983	IPI:IPI00648647.2	Spag7 sperm-associated antigen 7 isoform 2	4.72	17.97	3
1984	IPI:IPI00474073.1	Mapre2 Isoform 2 of Microtubule-associated protein RP/EB family member 2	4.71	15.77	6
1985	IPI:IPI00110760.1	Dnajb4 DnaJ homolog subfamily B member 4	4.71	11.57	3
1986	IPI:IPI00127008.1	Thrap3 Thrap3 protein (Fragment)	4.7	13.09	3
1987	IPI:IPI00121627.3	Clptm1 Cleft lip and palate transmembrane protein 1 homolog	4.7	8.735	3
1988	IPI:IPI00659907.2	Gm5863 similar to glyceraldehyde-3-phosphate-dehydrogenase isoform 1	4.69	63.58	76
1989	IPI:IPI00830960.1	Ptges3 Uncharacterized protein	4.69	23.08	4
1990	IPI:IPI00308446.3	Ahcyl2 putative adenosylhomocysteinase 3 isoform 1	4.68	9.487	5
1991	IPI:IPI00230283.5	Gfm1 Elongation factor G, mitochondrial	4.66	6.791	3
1992	IPI:IPI00115580.4	Eif3m Eukaryotic translation initiation factor 3 subunit M	4.65	11.76	3
1993	IPI:IPI00420949.3	Upf1 Isoform 1 of Regulator of nonsense transcripts 1	4.65	1.957	2
1994	IPI:IPI00230642.1	Cast Isoform 3 of Calpastatin	4.64	7.703	3
1995	IPI:IPI00123333.5	Wbp11 WW domain-binding protein 11	4.64	5.304	3
1996	IPI:IPI00123744.1	Cst3 Cystatin-C	4.64	32.14	3
1997	IPI:IPI00109153.6	Slc17a7 Vesicular glutamate transporter 1	4.63	2.143	2
1998	IPI:IPI00453821.2	Nup155 Nuclear pore complex protein Nup155	4.62	4.17	4
1999	IPI:IPI00119952.1	Gpm6b Isoform 1 of Neuronal membrane glycoprotein M6-b	4.61	9.756	2
2000	IPI:IPI00458704.2	Nop16 Nucleolar protein 16	4.6	20.79	4
2001	IPI:IPI00120793.1	Prnp Major prion protein	4.6	11.81	3
2002	IPI:IPI00828221.2	Gpm6b neuronal membrane glycoprotein M6-b isoform 1	4.6	13.72	3
2003	IPI:IPI00119581.2	Fbi;LOC100044829 rRNA 2'-O-methyltransferase fibrillarin	4.59	13.46	4
2004	IPI:IPI00857780.1	Cadm3 Uncharacterized protein	4.57	10.23	4
2005	IPI:IPI00268673.6	Mtor Isoform 1 of Serine/threonine-protein kinase mTOR	4.57	2.04	4

2006	IPI:IPI00132142.1	Atg3 Ubiquitin-like-conjugating enzyme ATG3	4.56	10.19	3
2007	IPI:IPI00120495.1	Prmt1 Isoform 1 of Protein arginine N-methyltransferase 1	4.55	10.78	3
2008	IPI:IPI00264398.3	Rpl19-ps11 similar to Mus musculus ribosomal protein L19	4.54	25.51	6
2009	IPI:IPI00283057.1	Xrn2 Isoform 2 of 5'-3' exoribonuclease 2	4.54	4.329	3
2010	IPI:IPI00119058.1	Grb2 Isoform 1 of Growth factor receptor-bound protein 2	4.54	11.98	3
2011	IPI:IPI00882056.2	Mapre2 microtubule-associated protein RP/EB family member 2 isoform 3	4.54	16.9	4
2012	IPI:IPI00622716.4	Ctnnbl1 Beta-catenin-like protein 1	4.51	4.263	3
2013	IPI:IPI00153792.1	2410015M20Rik Protein QIL1	4.51	22.69	2
2014	IPI:IPI00649986.2	Psme2 28 kDa protein	4.51	11.51	2
2015	IPI:IPI00828543.3	Hcfc1 Host cell factor C1	4.5	2.983	3
2016	IPI:IPI00119020.1	Chmp2a Charged multivesicular body protein 2a	4.48	11.71	3
2017	IPI:IPI00124906.1	Cdc42ep4 Cdc42 effector protein 4	4.47	10.6	2
2018	IPI:IPI00850376.1	LOC100047915 similar to Memo1 protein	4.47	10.91	2
2019	IPI:IPI00318522.3	Gad2 Glutamate decarboxylase 2	4.47	5.641	2
2020	IPI:IPI00127447.3	Scarb2 Lysosome membrane protein 2	4.46	4.812	2
2021	IPI:IPI00648313.1	Srrm1 serine/arginine repetitive matrix protein 1 isoform 2	4.46	2.723	2
2022	IPI:IPI00223714.5	Hist1h1e Histone H1.4	4.45	26.03	9
2023	IPI:IPI00830976.1	Nasp nuclear autoantigenic sperm protein isoform 2	4.45	7.374	6
2024	IPI:IPI00118929.3	Iggbp1 Immunoglobulin-binding protein 1	4.45	8.235	2
2025	IPI:IPI00463297.4	Gm5745 60S ribosomal protein L36	4.44	28.85	3
2026	IPI:IPI00229361.2	Grm6 Metabotropic glutamate receptor 6	4.41	4.822	3
2027	IPI:IPI00648993.1	Grb2 Growth factor receptor bound protein 2	4.41	12.81	3
2028	IPI:IPI00308976.1	Me3 NADP-dependent malic enzyme, mitochondrial	4.4	9.106	4
2029	IPI:IPI00649890.2	0610037L13Rik Novel protein	4.4	23.91	2
2030	IPI:IPI00137087.5	Arfgef2 ADP-ribosylation factor guanine nucleotide-exchange factor 2	4.39	1.897	4
2031	IPI:IPI00125652.1	Txn2 Thioredoxin, mitochondrial	4.39	18.07	3
2032	IPI:IPI00719947.2	Gm16417 Uncharacterized protein	4.39	30.43	4
2033	IPI:IPI00165716.4	Gorasp2 Isoform 1 of Golgi reassembly-stacking protein 2	4.38	9.534	4
2034	IPI:IPI00135345.3	Nudt2 Bis(5'-nucleosyl)-tetrphosphatase [asymmetrical]	4.38	34.69	3
2035	IPI:IPI00133249.1	Surf4 Surfeit locus protein 4	4.37	12.27	4
2036	IPI:IPI00308222.3	Dbnl Isoform 2 of Drebrin-like protein	4.37	9.931	4
2037	IPI:IPI00224697.1	Ppp2r5e Serine/threonine-protein phosphatase 2A 56 kDa regulatory subunit epsilon isoform	4.36	8.137	4
2038	IPI:IPI00831697.1	Its1 Intersectin short form 2 variant 2	4.36	3.415	4

2039	IPI:IPI00956939.1	Rpl36 60S ribosomal protein L36	4.35	19.05	2
2040	IPI:IPI00128973.1	Gap43 Neuromodulin	4.34	18.06	2
2041	IPI:IPI00828514.1	Kif1b kinesin-like protein KIF1B isoform a	4.34	4.87	5
2042	IPI:IPI00315948.3	Tbcb Tubulin-folding cofactor B	4.33	27.87	4
2043	IPI:IPI00114052.1	Snrpb Small nuclear ribonucleoprotein-associated protein B	4.33	10.39	4
2044	IPI:IPI00349285.2	Mesdc2 LDLR chaperone MESD	4.33	13.39	2
2045	IPI:IPI00122418.1	Luc7l3 Isoform 2 of Luc7-like protein 3	4.33	6.517	4
2046	IPI:IPI00468896.7	Ddx46 Isoform 1 of Probable ATP-dependent RNA helicase DDX46	4.33	4.651	3
2047	IPI:IPI00129096.1	Pnpo Pyridoxine-5'-phosphate oxidase	4.32	18.01	3
2048	IPI:IPI00656173.1	Ldb3 Isoform 4 of LIM domain-binding protein 3	4.32	20.74	8
2049	IPI:IPI00406464.2	Try5 Putative uncharacterized protein	4.32	21.18	22
2050	IPI:IPI00318982.3	Psmd12 26S proteasome non-ATPase regulatory subunit 12	4.32	15.79	5
2051	IPI:IPI00329942.4	Vps26a Isoform 2 of Vacuolar protein sorting-associated protein 26A	4.31	6.964	2
2052	IPI:IPI00120165.1	Crot Peroxisomal carnitine O-octanoyltransferase	4.31	7.68	3
2053	IPI:IPI00330167.4	Iqsec3 IQ motif and SEC7 domain-containing protein 3	4.3	3.933	2
2054	IPI:IPI00678532.3	Fam82a2 Regulator of microtubule dynamics protein 3	4.29	11.49	3
2055	IPI:IPI00387337.1	Bzw2 Basic leucine zipper and W2 domain-containing protein 2	4.29	6.683	2
2056	IPI:IPI00135324.2	Slc12a2 solute carrier family 12 member 2	4.29	4.395	5
2057	IPI:IPI00458127.1	Dbnl Isoform 3 of Drebrin-like protein	4.29	9.954	4
2058	IPI:IPI00119432.1	Smpd2 Sphingomyelin phosphodiesterase 2	4.28	6.444	2
2059	IPI:IPI00224078.1	Prepl Isoform 1 of Prolyl endopeptidase-like	4.28	4.414	2
2060	IPI:IPI00113517.1	Ctsb Cathepsin B	4.27	15.04	5
2061	IPI:IPI00118438.4	Srrm1 Isoform 2 of Serine/arginine repetitive matrix protein 1	4.27	2.787	2
2062	IPI:IPI00132096.3	Mtap S-methyl-5'-thioadenosine phosphorylase	4.27	13.43	2
2063	IPI:IPI00226414.7	Abhd10 Isoform 1 of Abhydrolase domain-containing protein 10, mitochondrial	4.27	18.86	3
2064	IPI:IPI00230133.5	Hist1h1b Histone H1.5	4.27	17.04	3
2065	IPI:IPI00903427.1	Nisch Isoform 3 of Nischarin	4.26	2.374	2
2066	IPI:IPI00875404.1	Clcn6 Chloride transport protein 6	4.26	3.218	2
2067	IPI:IPI00137296.1	LOC100039215;Tsnax Translin-associated protein X	4.26	20.34	4
2068	IPI:IPI00122413.2	Rpl9;Rpl9-ps4 60S ribosomal protein L9	4.26	18.75	4
2069	IPI:IPI00128564.1	Psmd4 Isoform Rpn10A of 26S proteasome non-ATPase regulatory subunit 4	4.25	22.61	6
2070	IPI:IPI00126940.1	Adk Isoform Long of Adenosine kinase	4.25	12.74	5
2071	IPI:IPI00849113.1	LOC100048445 similar to fau	4.25	8.271	2
2072	IPI:IPI00130127.2	Gys1 Glycogen [starch] synthase, muscle	4.25	5.962	2

2073	IPI:IPI00853728.1	LOC100044976 similar to Vps37a protein	4.25	13.08	4
2074	IPI:IPI00410802.2	Cd44 CD44 antigen isoform a	4.25	4.359	3
2075	IPI:IPI00470184.2	Slc1a2 Isoform Glt-1 of Excitatory amino acid transporter 2	4.23	4.545	2
2076	IPI:IPI00340036.2	Gm5093 similar to ribosomal protein L11	4.23	11.62	2
2077	IPI:IPI00133955.1	Snrpe Small nuclear ribonucleoprotein E	4.22	25	3
2078	IPI:IPI00133034.3	Hint2 Histidine triad nucleotide-binding protein 2, mitochondrial	4.22	31.29	4
2079	IPI:IPI00849174.1	Gm4604 similar to rat ribosomal protein L36	4.21	19.05	2
2080	IPI:IPI00230570.1	Psmd4 Isoform Rpn10D of 26S proteasome non-ATPase regulatory subunit 4	4.21	16.91	3
2081	IPI:IPI00128254.2	Strbp Isoform 1 of Spermatid perinuclear RNA-binding protein	4.2	8.631	5
2082	IPI:IPI00620728.2	Gdap1l1 ganglioside-induced differentiation-associated protein 1-like 1	4.2	13.62	3
2083	IPI:IPI00882129.1	Gyg Uncharacterized protein	4.2	9.429	2
2084	IPI:IPI00230119.5	Igln5 IgLON family member 5	4.2	12.8	3
2085	IPI:IPI00114982.1	Stat5b Signal transducer and activator of transcription 5B	4.19	5.471	4
2086	IPI:IPI00845840.1	Pkm2 Isoform M1 of Pyruvate kinase isozymes M1/M2	4.19	79.1	218
2087	IPI:IPI00856197.1	Aplp2 amyloid-like protein 2 isoform b	4.19	3.819	2
2088	IPI:IPI00322097.6	Fyn Isoform 2 of Tyrosine-protein kinase Fyn	4.19	2.996	3
2089	IPI:IPI00762273.1	Tor1aip1 Lamina-associated polypeptide 1B	4.19	4.706	2
2090	IPI:IPI00111258.4	Mvp major vault protein	4.19	3.793	3
2091	IPI:IPI00123924.1	Serpina1d Alpha-1-antitrypsin 1-4	4.19	41.89	20
2092	IPI:IPI00128027.1	Slc24a1 Solute carrier family 24 (Sodium/potassium/calcium exchanger), member 1	4.18	7.168	7
2093	IPI:IPI00127472.2	Arvcf Isoform 3 of Armadillo repeat protein deleted in velo-cardio-facial syndrome homolog	4.18	3.996	3
2094	IPI:IPI00761677.1	Gtpbp1 GTP-binding protein 1	4.18	8.084	4
2095	IPI:IPI00938437.1	Akr7a5 aflatoxin B1 aldehyde reductase member 2	4.18	14.99	4
2096	IPI:IPI00828223.1	Srp68 Signal recognition particle 68	4.18	5.963	2
2097	IPI:IPI00336318.1	Pip4k2b Phosphatidylinositol-5-phosphate 4-kinase type-2 beta	4.17	8.173	4
2098	IPI:IPI00379694.4	Hmgcl hydroxymethylglutaryl-CoA lyase, mitochondrial precursor	4.17	19.38	3
2099	IPI:IPI00556765.1	Sri Isoform 2 of Sorcin	4.17	14.75	3
2100	IPI:IPI00135042.1	Dtna Isoform 1 of Dystrobrevin alpha	4.17	3.753	3
2101	IPI:IPI00137594.2	Map1lc3a Microtubule-associated proteins 1A/1B light chain 3A	4.16	23.14	3
2102	IPI:IPI00113713.1	Gm5614 Uncharacterized protein	4.16	24.76	3
2103	IPI:IPI00222549.6	Rpl30-ps8;Rpl30 60S ribosomal protein L30	4.16	24.35	2

2104	IPI:IPI00125513.1	Timm9 Mitochondrial import inner membrane translocase subunit Tim9	4.16	29.21	4
2105	IPI:IPI00556777.1	Gucy1a3 guanylate cyclase soluble subunit alpha-3	4.16	7.815	3
2106	IPI:IPI00265279.1	Gm15361 similar to UBE2D3	4.15	21.09	4
2107	IPI:IPI00353420.7	Utrn utrophin	4.15	1.108	4
2108	IPI:IPI00124096.1	S100a4 Protein S100-A4	4.15	24.75	3
2109	IPI:IPI00130264.1	Uckl1 Uridine-cytidine kinase-like 1	4.14	6.569	2
2110	IPI:IPI00798544.1	Enoph1 Isoform 2 of Enolase-phosphatase E1	4.14	18.58	3
2111	IPI:IPI00351266.2	Dhx36 Probable ATP-dependent RNA helicase DHX36	4.14	3.596	3
2112	IPI:IPI00119813.3	Lsm5;LOC100044729 U6 snRNA-associated Sm-like protein LSM5	4.14	46.15	2
2113	IPI:IPI00110050.2	Cdk11b Isoform 1 of Cell division protein kinase 11	4.13	3.827	2
2114	IPI:IPI00110729.1	Chmp5 Charged multivesicular body protein 5	4.13	10.5	2
2115	IPI:IPI00222412.3	Zmpste24 CAAX prenyl protease 1 homolog	4.13	6.737	3
2116	IPI:IPI00944143.1	Serpinb6a serpin B6 isoform a	4.13	12.28	3
2117	IPI:IPI00756875.1	Ctnnd1 107 kDa protein	4.13	3.434	3
2118	IPI:IPI00875609.1	Slc30a9 Isoform 1 of Zinc transporter 9	4.13	5.291	2
2119	IPI:IPI00153184.4	Samd11 sterile alpha motif domain-containing protein 11	4.13	7.428	2
2120	IPI:IPI00876549.1	Hist1h2bj;Hist1h2bl;Hist1h2bn;LOC100046213;Hist1h2bf Histone H2B	4.13	24.22	6
2121	IPI:IPI00830860.1	Clasp2 CLIP-associating protein 2 isoform b	4.12	2.176	2
2122	IPI:IPI00955687.1	Usp10 Isoform 1 of Ubiquitin carboxyl-terminal hydrolase 10	4.12	3.03	2
2123	IPI:IPI00120199.1	Pmpca Mitochondrial-processing peptidase subunit alpha	4.12	7.824	2
2124	IPI:IPI00387227.1	Arfgap1 Isoform 1 of ADP-ribosylation factor GTPase-activating protein 1	4.12	9.179	2
2125	IPI:IPI00110224.1	Hsd17b11 Isoform 1 of Estradiol 17-beta-dehydrogenase 11	4.12	12.75	2
2126	IPI:IPI00653931.1	Fah fumarylacetoacetase	4.12	6.921	2
2127	IPI:IPI00928125.1	Me3 NADP-dependent malic enzyme, mitochondrial precursor	4.12	7.616	3
2128	IPI:IPI00170083.1	Appl2 DCC-interacting protein 13-beta	4.11	7.402	3
2129	IPI:IPI00649969.1	Mycbp C-myc binding protein	4.11	30.14	3
2130	IPI:IPI00756529.1	Arfgap1 ADP-ribosylation factor GTPase-activating protein 1 isoform c	4.11	9.645	2
2131	IPI:IPI00221400.5	Adh1 Alcohol dehydrogenase 1	4.11	9.333	3
2132	IPI:IPI00620823.2	Gak Isoform 2 of Cyclin-G-associated kinase	4.11	3.264	4
2133	IPI:IPI00222037.3	Mia3 Isoform 1 of Melanoma inhibitory activity protein 3	4.11	1.864	2
2134	IPI:IPI00648186.4	Clint1 MCG22297, isoform CRA_b	4.11	4.212	2

2135	IPI:IPI00465574.2	Hnrnpk Putative uncharacterized protein	4.1	56.43	47
2136	IPI:IPI00473667.1	Tuba3b;Tuba3a Putative uncharacterized protein	4.1	46.08	99
2137	IPI:IPI00458048.1	Sorbs1 Isoform 7 of Sorbin and SH3 domain-containing protein 1	4.1	3.828	2
2138	IPI:IPI00132005.1	Nenf Neudesin	4.1	26.9	3
2139	IPI:IPI00133047.1	Mapksp1;Gm5900 Mitogen-activated protein kinase scaffold protein 1	4.1	33.87	3
2140	IPI:IPI00315794.1	Cyb5b Cytochrome b5 type B	4.1	33.56	2
2141	IPI:IPI00911149.1	Zfp207 zinc finger protein 207 isoform 2	4.1	6.054	2
2142	IPI:IPI00410804.1	Luc7l Isoform 1 of Putative RNA-binding protein Luc7-like 1	4.1	10.24	6
2143	IPI:IPI00110487.1	2310003C23Rik Protein C20orf11 homolog	4.1	31.58	4
2144	IPI:IPI00875197.1	Psmb5 Proteasome subunit beta type	4.1	19.21	4
2145	IPI:IPI00131357.7	Rps23;Gm15450;LOC100046668 Putative uncharacterized protein	4.09	13.1	2
2146	IPI:IPI00222697.1	Syng1 Isoform 1B of Synaptogyrin-1	4.09	11.52	3
2147	IPI:IPI00227749.1	Ddx19b Putative uncharacterized protein	4.09	6.889	2
2148	IPI:IPI00378156.2	Rabgap1 Isoform 1 of Rab GTPase-activating protein 1	4.09	3.289	3
2149	IPI:IPI00138238.1	H2-Ke2 Prefoldin subunit 6	4.09	22.83	3
2150	IPI:IPI00348328.4	Krt78 keratin Kb40	4.09	1.311	6
2151	IPI:IPI00124291.1	Vps45 Vacuolar protein sorting-associated protein 45	4.09	6.316	2
2152	IPI:IPI00311175.5	Tuba8 Tubulin alpha-8 chain	4.09	37.42	93
2153	IPI:IPI00761172.1	Ubp2l Isoform 2 of Ubiquitin-associated protein 2-like	4.09	3.353	2
2154	IPI:IPI00675855.2	Nefh MKIAA0845 protein (Fragment)	4.08	4.111	6
2155	IPI:IPI00752631.1	Ctnnd1 Uncharacterized protein	4.08	4.598	2
2156	IPI:IPI00187270.8	Zcchc8 Zinc finger CCHC domain-containing protein 8	4.08	7.052	2
2157	IPI:IPI00970318.1	Mff Uncharacterized protein	4.08	37.84	2
2158	IPI:IPI00322922.4	Fam50a Protein FAM50A	4.08	7.965	2
2159	IPI:IPI00314069.1	Acot9 Acyl-coenzyme A thioesterase 9, mitochondrial	4.08	5.695	2
2160	IPI:IPI00131887.3	Ptgr1 Prostaglandin reductase 1	4.08	8.207	3
2161	IPI:IPI00623216.2	Lrrc57 leucine-rich repeat-containing protein 57 isoform b	4.08	9.091	2
2162	IPI:IPI00134137.1	Gdap1 Isoform 1 of Ganglioside-induced differentiation-associated protein 1	4.08	6.704	3
2163	IPI:IPI00129792.1	Kpna4 Importin subunit alpha-4	4.08	9.597	3
2164	IPI:IPI00395060.1	AW549877 Isoform 1 of UPF0600 protein C5orf51 homolog	4.08	7.823	2
2165	IPI:IPI00417154.3	Eif4g3 Eukaryotic translation initiation factor 4 gamma, 3	4.07	1.9	2

2166	IPI:IPI00775997.1	Cald1 Uncharacterized protein	4.07	5.235	2
2167	IPI:IPI00421119.5	Rbm25 Isoform 1 of RNA-binding protein 25	4.07	2.973	2
2168	IPI:IPI00331361.2	Mybbp1a Myb-binding protein 1A	4.07	3.199	3
2169	IPI:IPI00274222.2	Acad8 Isobutyryl-CoA dehydrogenase, mitochondrial	4.07	8.475	3
2170	IPI:IPI00128692.1	Nsdhl Sterol-4-alpha-carboxylate 3-dehydrogenase, decarboxylating	4.07	8.287	3
2171	IPI:IPI00119224.1	Snrpd3 Small nuclear ribonucleoprotein Sm D3	4.07	31.75	3
2172	IPI:IPI00457564.2	Adal Isoform 1 of Adenosine deaminase-like protein	4.07	6.389	2
2173	IPI:IPI00122928.1	Tubb6 Tubulin beta-6 chain	4.07	55.26	95
2174	IPI:IPI00135646.1	Abcd3 ATP-binding cassette sub-family D member 3	4.07	4.249	3
2175	IPI:IPI00123852.7	Sdf2 stromal cell-derived factor 2	4.07	16.89	2
2176	IPI:IPI00230382.1	Hmbs Isoform 2 of Porphobilinogen deaminase	4.07	11.92	2
2177	IPI:IPI00607076.1	Srsf4 splicing factor, arginine/serine-rich 4	4.07	6.314	3
2178	IPI:IPI00554992.2	Kif1a MKIAA4102 protein	4.07	2.934	2
2179	IPI:IPI00844680.1	Sfn 14-3-3 protein sigma	4.06	30.24	18
2180	IPI:IPI00330323.1	Mogs Mannosyl-oligosaccharide glucosidase	4.06	3.957	2
2181	IPI:IPI00187512.7	Nt5c3 Isoform 2 of Cytosolic 5'-nucleotidase 3	4.06	8.761	2
2182	IPI:IPI00136906.1	Capg Macrophage-capping protein	4.06	6.534	2
2183	IPI:IPI00475322.1	Msra Msra protein	4.06	13.47	2
2184	IPI:IPI00648743.1	Ndufb6 NADH dehydrogenase (Ubiquinone) 1 beta subcomplex, 6	4.06	25.77	3
2185	IPI:IPI00323130.3	Tceb1;LOC100045866 Transcription elongation factor B polypeptide 1	4.06	33.04	3
2186	IPI:IPI00112377.1	Rdh14 Retinol dehydrogenase 14	4.06	11.98	5
2187	IPI:IPI00129184.3	Dus3l Isoform 1 of tRNA-dihydrouridine synthase 3-like	4.06	6.122	2
2188	IPI:IPI00467932.4	Cstf2t Cleavage stimulation factor subunit 2 tau variant	4.06	7.12	2
2189	IPI:IPI00119152.1	Cpe Carboxypeptidase E	4.06	5.252	2
2190	IPI:IPI00875027.1	Xpnpep1 Xaa-Pro aminopeptidase 1	4.06	9.791	4
2191	IPI:IPI00622375.2	Ubap2l Isoform 4 of Ubiquitin-associated protein 2-like	4.06	3.077	2
2192	IPI:IPI00459309.2	Tmx2;Gm5499 Thioredoxin-related transmembrane protein 2	4.05	8.814	3
2193	IPI:IPI00918528.1	Zfr Protein	4.05	10.7	2
2194	IPI:IPI00331170.1	Prpf3 U4/U6 small nuclear ribonucleoprotein Prp3	4.05	3.807	2
2195	IPI:IPI00751009.1	Srpk2 serine/threonine-protein kinase SRPK2	4.05	4.399	3
2196	IPI:IPI00848443.1	Acaca Isoform 2 of Acetyl-CoA carboxylase 1	4.05	2.182	3
2197	IPI:IPI00118143.1	Ctnn Src substrate cortactin	4.05	6.044	3
2198	IPI:IPI00132903.1	Ufc1 Ubiquitin-fold modifier-conjugating enzyme 1	4.05	19.76	3
2199	IPI:IPI00468380.4	Dclk1 Isoform 1 of Serine/threonine-protein kinase	4.05	3.704	2

		DCLK1			
2200	IPI:IPI00831350.1	Tnnt3 Troponin T3, skeletal, fast	4.05	25.23	3
2201	IPI:IPI00849074.1	Gm3511;LOC100047305 similar to 40S ribosomal protein S28	4.05	30.43	2
2202	IPI:IPI00605025.2	Gm8618 Uncharacterized protein	4.05	13.29	2
2203	IPI:IPI00938462.1	Gcat 2-amino-3-ketobutyrate coenzyme A ligase, mitochondrial isoform b	4.05	10.47	3
2204	IPI:IPI00877283.1	Rbm9 RNA-binding protein 9 isoform 3	4.04	5.618	7
2205	IPI:IPI00874955.1	A1314180 204 kDa protein	4.04	1.903	3
2206	IPI:IPI00407868.1	Cacna2d1 Isoform 2D of Voltage-dependent calcium channel subunit alpha-2/delta-1	4.04	2.486	2
2207	IPI:IPI00938511.1	Pfkfb2 6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 2 isoform 3	4.04	4.427	2
2208	IPI:IPI00133024.1	Vta1 Vacuolar protein sorting-associated protein VTA1 homolog	4.04	14.24	3
2209	IPI:IPI00122215.1	Tor1aip1 Torsin-1A-interacting protein 1	4.04	5.385	2
2210	IPI:IPI00652758.1	Tom1 target of Myb protein 1 isoform 2	4.04	9.302	2
2211	IPI:IPI00133387.1	Hsbp1 Heat shock factor-binding protein 1	4.04	32.89	3
2212	IPI:IPI00877286.1	Lsm4 U6 snRNA-associated Sm-like protein LSm4	4.04	16.06	2
2213	IPI:IPI00321744.3	Ergic1 Endoplasmic reticulum-Golgi intermediate compartment protein 1	4.04	13.1	3
2214	IPI:IPI00124593.1	Sumo1 Small ubiquitin-related modifier 1	4.04	18.81	3
2215	IPI:IPI00875416.1	Sord 40 kDa protein	4.04	8.8	3
2216	IPI:IPI00111145.7	Uprt Uracil phosphoribosyltransferase (FUR1) homolog	4.04	18.06	3
2217	IPI:IPI00875717.2	Sept8 Septin 8	4.04	12.22	3
2218	IPI:IPI00462140.1	Krt77 Keratin, type II cytoskeletal 1b	4.04	7.168	8
2219	IPI:IPI00138302.1	Gm8129;LOC674727 similar to ribosomal protein L38	4.04	32.86	3
2220	IPI:IPI00229963.6	Serpib5 Serpin B5	4.04	7.2	3
2221	IPI:IPI00110265.1	Sirt2 Isoform 1 of NAD-dependent deacetylase sirtuin-2	4.04	14.65	4
2222	IPI:IPI00608040.1	Hdgfrp3 Isoform 2 of Hepatoma-derived growth factor-related protein 3	4.04	18.54	5
2223	IPI:IPI00387289.3	Ces3 Carboxylesterase 3	4.04	5.841	2
2224	IPI:IPI00120015.2	Gucy1a3 Guanylate cyclase soluble subunit alpha-3	4.04	5.789	2
2225	IPI:IPI00379634.2	Gm5325 Uncharacterized protein	4.03	68.82	7
2226	IPI:IPI00128989.1	Atp6ap1 V-type proton ATPase subunit S1	4.03	7.343	3
2227	IPI:IPI00969919.1	Rdh11 UBE-1b	4.03	9.667	3
2228	IPI:IPI00226234.5	Plaa Phospholipase A-2-activating protein	4.03	4.786	2
2229	IPI:IPI00750847.2	Rtn3 Isoform 5 of Reticulon-3	4.03	2.022	2
2230	IPI:IPI00108410.1	Atad1 ATPase family AAA domain-containing protein 1	4.03	8.033	3
2231	IPI:IPI00955082.1	H2afy core histone macro-H2A.1 isoform 2	4.03	9.973	2

2232	IPI:IPI00284213.3	Prpf40a Isoform 1 of Pre-mRNA-processing factor 40 homolog A	4.03	3.463	2
2233	IPI:IPI00122568.3	Arhgdib Rho GDP-dissociation inhibitor 2	4.03	18.5	2
2234	IPI:IPI00225023.4	Slc9a6 solute carrier family 9 (sodium/hydrogen exchanger), member 6	4.03	4.416	2
2235	IPI:IPI00230388.5	Lsm3 U6 snRNA-associated Sm-like protein LSm3	4.03	21.57	2
2236	IPI:IPI00311833.6	Uba5 Ubiquitin-like modifier-activating enzyme 5	4.03	8.933	2
2237	IPI:IPI00119896.2	Dnajb6 Isoform A of DnaJ homolog subfamily B member 6	4.03	6.575	2
2238	IPI:IPI00165811.1	Ttc8 Isoform 1 of Tetratricopeptide repeat protein 8	4.03	5.825	2
2239	IPI:IPI00111953.1	Bola1 Bola-like protein 1	4.03	27.01	2
2240	IPI:IPI00122740.2	Macro1 MACRO domain-containing protein 1	4.03	11.46	2
2241	IPI:IPI00133411.1	Fam136a Protein FAM136A	4.03	20.29	2
2242	IPI:IPI00555143.4	Ppfia2 Liprin-alpha 2	4.03	2.705	3
2243	IPI:IPI00112721.1	Ppp1r1a Protein phosphatase 1 regulatory subunit 1A	4.03	21.05	2
2244	IPI:IPI00272230.1	Rab39b Ras-related protein Rab-39B	4.03	19.25	3
2245	IPI:IPI00663323.2	Eml2 Isoform 1 of Echinoderm microtubule-associated protein-like 2	4.03	4.756	3
2246	IPI:IPI00651876.3	Rab8a Putative uncharacterized protein	4.03	22.6	4
2247	IPI:IPI00884486.2	Usp4 ubiquitin carboxyl-terminal hydrolase 4	4.03	2.703	3
2248	IPI:IPI00309077.4	1110049F12Rik Isoform 2 of UPF0424 protein C1orf128 homolog	4.03	13.51	2
2249	IPI:IPI00111831.1	Naca Nascent polypeptide-associated complex subunit alpha, muscle-specific form	4.03	1.966	3
2250	IPI:IPI00223594.1	Mbp Isoform 11 of Myelin basic protein	4.03	12.5	2
2251	IPI:IPI00225670.1	Gphn Gephyrin	4.03	5.592	2
2252	IPI:IPI00317422.2	Rnmt Isoform 3 of mRNA cap guanine-N7 methyltransferase	4.03	5.366	2
2253	IPI:IPI00755395.1	Ank1 Isoform 5 of Ankyrin-1	4.02	4.186	6
2254	IPI:IPI00310914.1	Usp4 Ubiquitin carboxyl-terminal hydrolase	4.02	2.951	2
2255	IPI:IPI00126913.5	Atad3a Isoform 1 of ATPase family AAA domain-containing protein 3	4.02	5.584	2
2256	IPI:IPI00221714.1	Smndc1 Survival of motor neuron-related-splicing factor 30	4.02	13.03	2
2257	IPI:IPI00877214.1	Peci Isoform 1 of Peroxisomal 3,2-trans-enoyl-CoA isomerase	4.02	6.65	2
2258	IPI:IPI00969981.1	Kif2a Uncharacterized protein	4.02	4.394	2
2259	IPI:IPI00928256.1	Dync1li2 cytoplasmic dynein 1 light intermediate chain 2	4.02	6.301	2
2260	IPI:IPI00122152.2	Rdh10 Retinol dehydrogenase 10	4.02	9.091	2
2261	IPI:IPI00283671.4	2500003M10Rik Isoform 1 of Friend of PRMT1 protein	4.02	11.65	2
2262	IPI:IPI00268215.1	Polr2d DNA-directed RNA polymerase II subunit	4.02	25.35	3

		RPB4			
2263	IPI:IPI00227585.6	Fabp7 Fatty acid-binding protein, brain	4.02	25	4
2264	IPI:IPI00856427.1	Sympk symplekin	4.02	4.037	4
2265	IPI:IPI00756025.1	Gm10313 similar to LOC654472 protein	4.02	47.45	78
2266	IPI:IPI00109033.3	Fam54b Isoform 1 of Protein FAM54B	4.02	10.03	2
2267	IPI:IPI00126892.1 2	Memo1 Putative uncharacterized protein	4.02	12.25	2
2268	IPI:IPI00678657.3	Gm7935 similar to Splicing factor 3b, subunit 4	4.02	11.06	3
2269	IPI:IPI00453512.3	Alkbh5 Probable alpha-ketoglutarate-dependent dioxygenase ABH5	4.02	12.91	2
2270	IPI:IPI00756510.1	Smcp2 Isoform 2 of Stromal membrane-associated protein 2	4.02	11.84	2
2271	IPI:IPI00120915.2	O610037L13Rik Isoform 3 of UPF0587 protein C1orf123 homolog	4.02	16.84	2
2272	IPI:IPI00132576.1	Snrpb2 U2 small nuclear ribonucleoprotein B''	4.02	16.89	3
2273	IPI:IPI00882266.1	Fip1l1 Uncharacterized protein	4.02	8.679	2
2274	IPI:IPI00128436.1	Dgke Diacylglycerol kinase epsilon	4.01	7.624	3
2275	IPI:IPI00468203.3	Anxa2 Annexin A2	4.01	16.84	2
2276	IPI:IPI00322610.5	Coasy Bifunctional coenzyme A synthase	4.01	6.75	2
2277	IPI:IPI00187288.6	Echdc1 Isoform 1 of Enoyl-CoA hydratase domain-containing protein 1	4.01	18.63	3
2278	IPI:IPI00330627.5	Blvra Biliverdin reductase A	4.01	12.88	3
2279	IPI:IPI00133608.3	Ociad1 Isoform 1 of OCIA domain-containing protein 1	4.01	13.77	2
2280	IPI:IPI00310857.4	Exosc4 Exosome complex exonuclease RRP41	4.01	11.84	2
2281	IPI:IPI00117181.1	Flot1 Flotillin-1	4.01	7.243	2
2282	IPI:IPI00222447.1	Tmem11 Transmembrane protein 11	4.01	12.11	2
2283	IPI:IPI00117687.1	O610009D07Rik Pre-mRNA branch site protein p14	4.01	24.8	4
2284	IPI:IPI00853967.1	Pthr2 Peptidyl-tRNA hydrolase 2, mitochondrial	4.01	19.89	3
2285	IPI:IPI00624843.3	Ermn Ermin	4.01	14.23	4
2286	IPI:IPI00403509.6	Psmd8 26S proteasome non-ATPase regulatory subunit 8	4.01	6.232	3
2287	IPI:IPI00881509.2	Nfu1 NFU1 iron-sulfur cluster scaffold homolog, mitochondrial	4.01	10.98	2
2288	IPI:IPI00228289.2	Cnst Isoform 1 of Consortin	4.01	5.345	2
2289	IPI:IPI00461199.2	Bsn Isoform 2 of Protein bassoon	4.01	1.21	2
2290	IPI:IPI00121448.3	Guca1b Guanylyl cyclase-activating protein 2	4.01	17.91	2
2291	IPI:IPI00124082.1	Ccdc115 Coiled-coil domain-containing protein 115	4.01	13.89	2
2292	IPI:IPI00880375.1	Acyp2 Acylphosphatase	4.01	21.7	2
2293	IPI:IPI00330599.1	Mtdh Protein LYRIC	4.01	4.663	3
2294	IPI:IPI00409176.1	Cast Isoform 1 of Calpastatin	4.01	4.442	2
2295	IPI:IPI00623951.3	Hist2h2ab;Hist2h2ac Histone H2A type 2-B	4.01	24.62	3
2296	IPI:IPI00918085.1	Man2c1 Putative uncharacterized protein	4.01	3.118	2

2297	IPI:IPI00132529.2	Adpgk Isoform 1 of ADP-dependent glucokinase	4.01	7.056	2
2298	IPI:IPI00461314.1	Lsm2 SnRNP core protein SMX5b	4.01	48.72	2
2299	IPI:IPI00849548.2	Gm13991 similar to Rab5B	4.01	13.93	4
2300	IPI:IPI00623542.3	Slc8a1 sodium/calcium exchanger 1 isoform B	4.01	6.367	4
2301	IPI:IPI00968950.1	Gm10334 Protease, serine, 3	4.01	30.49	20
2302	IPI:IPI00117043.1	Acta2 Actin, aortic smooth muscle	4	68.97	80
2303	IPI:IPI00221615.5	Arf5 ADP-ribosylation factor 5	4	47.78	9
2304	IPI:IPI00109368.3	Calml3 Calmodulin-like protein 3	4	41.61	15
2305	IPI:IPI00889833.1	Ubqln2 Ubiquilin 2, isoform CRA_a	4	8.777	8
2306	IPI:IPI00971301.1	LOC640369 similar to Rab5B	4	30	6
2307	IPI:IPI00124803.1	Zfp259 Zinc finger protein ZPR1	4	5.447	3
2308	IPI:IPI00138716.1	Rap2b Ras-related protein Rap-2b	4	24.04	3
2309	IPI:IPI00323660.1	Actl6a Actin-like protein 6A	4	6.294	2
2310	IPI:IPI00153381.1	Uqcr10 Cytochrome b-c1 complex subunit 9	4	37.5	3
2311	IPI:IPI00135267.1	Tmem35 Transmembrane protein 35	4	14.37	2
2312	IPI:IPI00653743.1	Fahd1 fumarylacetoacetate hydrolase domain-containing protein 1	4	8.811	2
2313	IPI:IPI00856839.1	Pcnp Uncharacterized protein	4	17.12	2
2314	IPI:IPI00420172.1	Agfg1 Isoform 4 of Arf-GAP domain and FG repeats-containing protein 1	4	9.269	3
2315	IPI:IPI00845712.1	1110049F12Rik Isoform 1 of UPF0424 protein C1orf128 homolog	4	14.22	2
2316	IPI:IPI00947639.1	Fxyd1 phospholemman isoform a precursor	4	30.53	4
2317	IPI:IPI00453658.1	Nit1 Isoform 1 of Nitrilase homolog 1	4	7.121	2
2318	IPI:IPI00153448.3	Them4 Isoform 1 of Thioesterase superfamily member 4	4	9.13	3
2319	IPI:IPI00761970.2	Copz1 20 kDa protein	4	17.05	3
2320	IPI:IPI00126548.2	Agpat1 Putative uncharacterized protein	4	13.5	2
2321	IPI:IPI00119094.1	2810405K02Rik Uncharacterized protein C1orf93 homolog	4	8.955	2
2322	IPI:IPI00377298.2	Tra2a transformer-2 protein homolog alpha	4	12.06	3
2323	IPI:IPI00323822.1	Rras2 Ras-related protein R-Ras2	4	13.73	2
2324	IPI:IPI00230430.1	Cartpt Isoform Short of Cocaine- and amphetamine-regulated transcript protein	4	22.41	2
2325	IPI:IPI00556820.1	Adpgk Isoform 3 of ADP-dependent glucokinase	4	7.071	2
2326	IPI:IPI00221921.5	Cd9 CD9 antigen	4	5.31	2
2327	IPI:IPI00169883.1	Sirt5 NAD-dependent deacetylase sirtuin-5	4	9.032	2
2328	IPI:IPI00115544.1	Gng4 Guanine nucleotide-binding protein G(I)/G(S)/G(O) subunit gamma-4	4	44	2
2329	IPI:IPI00134017.1	Chordc1 Cysteine and histidine-rich domain-containing protein 1	4	16.62	3
2330	IPI:IPI00121271.1	0610011F06Rik UPF0585 protein C16orf13 homolog	4	13.73	2

2331	IPI:IPI00222555.5	S100a10 Protein S100-A10	4	27.84	3
2332	IPI:IPI00131904.1	Dkk3 Dickkopf-related protein 3	4	7.45	2
2333	IPI:IPI00128202.1	Eif3h Eukaryotic translation initiation factor 3 subunit H	4	13.92	3
2334	IPI:IPI00308545.1	Cam1 Calcium signal-modulating cyclophilin ligand	4	15.99	3
2335	IPI:IPI00225254.6	Mtx2 Metaxin-2	4	12.93	3
2336	IPI:IPI00130489.1	Rab35 Ras-related protein Rab-35	4	27.86	6
2337	IPI:IPI00403055.1	Psmf1 Proteasome inhibitor PI31 subunit	4	8.118	2
2338	IPI:IPI00269613.6	Eif3i Eukaryotic translation initiation factor 3 subunit I	4	8.308	2
2339	IPI:IPI00229604.4	Cherp calcium homeostasis endoplasmic reticulum protein	4	3.838	2
2340	IPI:IPI00113362.2	Crkl Crk-like protein	4	10.56	3
2341	IPI:IPI00459442.1	Rtn1 reticulon-1 isoform RTN1-C	4	19.71	5
2342	IPI:IPI00318671.2	Ehd4 EH-domain containing 4-KJR (Fragment)	4	5.331	3
2343	IPI:IPI00266188.6	Cfl2 Cofilin-2	4	38.55	6
2344	IPI:IPI00130331.3	L2hgdh L-2-hydroxyglutarate dehydrogenase, mitochondrial	4	6.034	3
2345	IPI:IPI00850434.1	Gm13292 similar to Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) isoform 1	4	78.38	198
2346	IPI:IPI00750595.2	Myl9 Myosin regulatory light polypeptide 9	4	48.26	8
2347	IPI:IPI00284119.7	Tnnc2 Troponin C, skeletal muscle	4	22.5	4
2348	IPI:IPI00130640.5	Hrsp12 Ribonuclease UK114	4	31.85	3
2349	IPI:IPI00116649.1	Cnn2 Calponin-2	4	14.43	3
2350	IPI:IPI00224252.5	Sel1l Isoform 2 of Protein sel-1 homolog 1	4	6.081	2
2351	IPI:IPI00119676.1	Apoc1 Apolipoprotein C-I	4	26.14	2
2352	IPI:IPI00555150.2	Snx3 Sorting nexin-3	4	14.81	4
2353	IPI:IPI00134784.6	Lsm4 U6 snRNA-associated Sm-like protein LSm4	4	19.71	3
2354	IPI:IPI00128424.1	Dr1 Protein Dr1	4	21.02	2
2355	IPI:IPI00137731.5	Stam Putative uncharacterized protein	4	10.85	3
2356	IPI:IPI00109089.1	Bag4 BAG family molecular chaperone regulator 4	4	6.127	2
2357	IPI:IPI00752486.1	Cst3 Cystatin C	4	26.47	2
2358	IPI:IPI00653528.2	Myeov2 Myeloma-overexpressed gene 2 protein homolog	4	100	2
2359	IPI:IPI00624030.3	Rpe Ribulose-5-phosphate-3-epimerase, isoform CRA_e	4	17.45	3
2360	IPI:IPI00752289.2	Gm10290 Glyceraldehyde-3-phosphate dehydrogenase	4	74.77	133
2361	IPI:IPI00331334.3	Bag3 BAG family molecular chaperone regulator 3	4	4.159	2
2362	IPI:IPI00845862.1	1810014F10Rik Isoform 3 of Protein fucU homolog	4	23.08	2
2363	IPI:IPI00222053.1	Neo1 Isoform 4 of Neogenin	4	2.699	2
2364	IPI:IPI00761937.1	Ubp2l Isoform 1 of Ubiquitin-associated protein 2-like	4	3.071	2

2365	IPI:IPI00153702.2	Pthr2 peptidyl-tRNA hydrolase 2, mitochondrial isoform a	4	19.78	2
2366	IPI:IPI00110716.1	Fip111 Isoform 1 of Pre-mRNA 3'-end-processing factor FIP1	4	7.917	2
2367	IPI:IPI00462115.3	1810035L17Rik Isoform 2 of SRA stem-loop-interacting RNA-binding protein, mitochondrial	4	41.41	4
2368	IPI:IPI00849235.1	Dynlt1-ps1 similar to tctex-1 protein isoform 2	4	39.22	2
2369	IPI:IPI00115763.2	Syng1 Isoform 1A of Synaptogyrin-1	4	9.402	2
2370	IPI:IPI00849046.1	Gm10327;LOC100046806 similar to Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) isoform 1	4	76.88	139
2371	IPI:IPI00133553.1	Mut Methylmalonyl-CoA mutase, mitochondrial	4	2.807	2
2372	IPI:IPI00229475.1	Jup Junction plakoglobin	4	4.832	2
2373	IPI:IPI00880689.1	Rpl24 Putative uncharacterized protein	4	15.79	2
2374	IPI:IPI00606647.3	Bcl2l13 bcl-2-like protein 13	3.98	8.756	2
2375	IPI:IPI00108388.1	Usp9x Probable ubiquitin carboxyl-terminal hydrolase FAF-X	3.97	3.009	8
2376	IPI:IPI00886005.1	Mapk8ip3 C-jun-amino-terminal kinase-interacting protein 3 isoform g	3.97	2.154	2
2377	IPI:IPI00116221.2	Lactb2 Beta-lactamase-like protein 2	3.97	9.028	2
2378	IPI:IPI00673669.2	Srsf5 Putative uncharacterized protein	3.96	25.56	9
2379	IPI:IPI00120546.1	Praf2 PRA1 family protein 2	3.96	16.29	2
2380	IPI:IPI00115056.1	Trappc3 Trafficking protein particle complex subunit 3	3.96	8.889	2
2381	IPI:IPI00648852.2	Ppt1 Putative uncharacterized protein	3.94	10.6	2
2382	IPI:IPI00944062.1	Tjp1 tight junction protein ZO-1 isoform 2	3.94	2.255	2
2383	IPI:IPI00828225.1	Bcap31 B-cell receptor-associated protein 31, isoform CRA_c	3.93	12.65	3
2384	IPI:IPI00173343.3	Rexo2 Oligoribonuclease, mitochondrial (Fragment)	3.93	9.283	2
2385	IPI:IPI00403909.2	Armc6 Isoform 1 of Armadillo repeat-containing protein 6	3.92	6.838	2
2386	IPI:IPI00222546.5	Rpl22;LOC100047372 60S ribosomal protein L22	3.91	18.75	3
2387	IPI:IPI00830364.1	Htra2 Uncharacterized protein	3.91	14.4	3
2388	IPI:IPI00755549.2	Gfpt1 Isoform 2 of Glucosamine--fructose-6-phosphate aminotransferase [isomerizing] 1	3.91	5.14	3
2389	IPI:IPI00406596.4	Gapvd1 Isoform 2 of GTPase-activating protein and VPS9 domain-containing protein 1	3.9	2.296	2
2390	IPI:IPI00112097.1	Commd9 COMM domain-containing protein 9	3.89	18.69	2
2391	IPI:IPI00876109.1	Prmt1 Prmt1 protein	3.89	11.3	3
2392	IPI:IPI00927961.1	Fyn Uncharacterized protein	3.89	3.32	3
2393	IPI:IPI00123319.1	Tpm2 Isoform 1 of Tropomyosin beta chain	3.88	32.04	13
2394	IPI:IPI00110363.1	Cpsf1 Cleavage and polyadenylation specificity factor subunit 1	3.87	2.845	5

2395	IPI:IPI00115875.8	Pi4ka phosphatidylinositol 4-kinase type 3 alpha	3.87	3.18	4
2396	IPI:IPI00330094.4	Cpt1a Carnitine O-palmitoyltransferase 1, liver isoform	3.87	5.175	2
2397	IPI:IPI00753044.1	Arc3 Uncharacterized protein	3.86	10.59	3
2398	IPI:IPI00118769.2	Rgs7 Rgs7 protein	3.86	7.234	2
2399	IPI:IPI00420143.1	Usp47 Isoform 2 of Ubiquitin carboxyl-terminal hydrolase 47	3.85	2.507	3
2400	IPI:IPI00120427.1	Rtn2 Isoform 1 of Reticulon-2	3.85	5.308	2
2401	IPI:IPI00137668.1	Hdac2 Histone deacetylase 2	3.84	10.25	4
2402	IPI:IPI00110659.2	Dhrs7 Dehydrogenase/reductase SDR family member 7	3.83	11.24	3
2403	IPI:IPI00551412.1	Magoh Protein mago nashi homolog	3.83	19.18	2
2404	IPI:IPI00884502.1	Crx cone-rod homeobox protein isoform 2	3.83	7.43	2
2405	IPI:IPI00132958.1	Acot13 Acyl-coenzyme A thioesterase 13	3.83	17.86	2
2406	IPI:IPI00410800.1	Nup93 Isoform 2 of Nuclear pore complex protein Nup93	3.82	3.879	3
2407	IPI:IPI00405760.2	Sup2 Putative splicing factor, arginine/serine-rich 14	3.82	3.655	3
2408	IPI:IPI00461621.1	Snrnp40 U5 small nuclear ribonucleoprotein 40 kDa protein	3.82	8.101	3
2409	IPI:IPI00123589.1	Ubxn1 UBX domain-containing protein 1	3.82	15.49	3
2410	IPI:IPI00556699.1	Gcsh Putative uncharacterized protein	3.82	17.65	2
2411	IPI:IPI00227455.2	Kctd8 Isoform 1 of BTB/POZ domain-containing protein KCTD8	3.82	5.882	4
2412	IPI:IPI00856334.1	Uba6 Uncharacterized protein	3.81	3.62	3
2413	IPI:IPI00316184.1	Bcas2 Pre-mRNA-splicing factor SPF27	3.8	13.33	3
2414	IPI:IPI00405390.1	Nudt9 ADP-ribose pyrophosphatase, mitochondrial	3.8	7.429	2
2415	IPI:IPI00876504.1	Gstz1 Brain cDNA, clone MNCb-6148, similar to Mus musculus glutathione transferase zeta 1 (maleylacetoacetate isomerase) (Gstz1), mRNA	3.8	15.81	3
2416	IPI:IPI00277446.5	Bat3 Putative uncharacterized protein (Fragment)	3.8	2.437	2
2417	IPI:IPI00755329.1	Ssr1 Translocon-associated protein subunit alpha	3.8	8.042	2
2418	IPI:IPI00623834.1	Ampd2 Adenosine monophosphate deaminase 2 (Isoform L), isoform CRA_a	3.8	3.034	2
2419	IPI:IPI00314153.4	Yars Tyrosyl-tRNA synthetase	3.8	5.319	3
2420	IPI:IPI00886236.1	Dcakd Dephospho-CoA kinase domain-containing protein	3.79	16.02	3
2421	IPI:IPI00408059.4	Ppp2r5c serine/threonine-protein phosphatase 2A 56 kDa regulatory subunit gamma isoform isoform d	3.79	4.991	2
2422	IPI:IPI00230013.3	Cacna2d1 Isoform 2B of Voltage-dependent calcium channel subunit alpha-2/delta-1	3.78	4.797	4
2423	IPI:IPI00408543.5	Clip2 Isoform 2 of CAP-Gly domain-containing linker protein 2	3.78	5.237	4
2424	IPI:IPI00315463.4	Reep5 receptor expression-enhancing protein 5	3.77	11.64	3

2425	IPI:IPI00124600.4	Slc15a2 solute carrier family 15 member 2 isoform 1	3.77	2.162	2
2426	IPI:IPI00223196.5	Tnni2 Troponin I, fast skeletal muscle	3.77	17.03	2
2427	IPI:IPI00753990.1	Nudt3;LOC100047647 Nudix (Nucleotide diphosphate linked moiety X)-type motif	3.76	26.62	2
2428	IPI:IPI00880948.1	Acad5b 52 kDa protein	3.76	11.4	2
2429	IPI:IPI00119945.1	Nit2 Omega-amidase NIT2	3.75	11.96	2
2430	IPI:IPI00788387.1	Mfge8 lactadherin isoform 1	3.75	4.32	2
2431	IPI:IPI00850525.1	Upf1 Isoform 2 of Regulator of nonsense transcripts 1	3.75	3.774	4
2432	IPI:IPI00319270.2	Plin3 Perilipin-3	3.75	9.382	3
2433	IPI:IPI00399943.3	Arcp5 Actin-related protein 2/3 complex subunit 5	3.75	27.17	2
2434	IPI:IPI00277028.4	Cobra1 Negative elongation factor B	3.74	8.793	4
2435	IPI:IPI00222937.1	Hspa13 Isoform 1 of Heat shock 70 kDa protein 13	3.74	5.732	3
2436	IPI:IPI00875089.1	L1cam Uncharacterized protein	3.74	3.962	4
2437	IPI:IPI00136563.4	Cpt1b Carnitine O-palmitoyltransferase 1, muscle isoform	3.72	2.591	3
2438	IPI:IPI00670422.2	- hypothetical protein isoform 2	3.71	13.71	2
2439	IPI:IPI00953783.2	Mthfd1 C-1-tetrahydrofolate synthase, cytoplasmic	3.7	3.636	3
2440	IPI:IPI00315187.5	2400001E08Rik RhoA activator C11orf59 homolog	3.7	15.53	2
2441	IPI:IPI00317074.3	Slc25a10 Mitochondrial dicarboxylate carrier	3.7	13.59	3
2442	IPI:IPI00263313.1	Drg1 Developmentally-regulated GTP-binding protein 1	3.7	7.357	2
2443	IPI:IPI00127556.1	Ncam2 Isoform Long of Neural cell adhesion molecule 2	3.7	3.465	2
2444	IPI:IPI00118173.1	Aoc3 Isoform 1 of Membrane primary amine oxidase	3.69	2.745	2
2445	IPI:IPI00652722.1	Slc27a1 Putative uncharacterized protein	3.68	3.975	2
2446	IPI:IPI00623819.1	Hspb1 Isoform C of Heat shock protein beta-1	3.68	18.86	2
2447	IPI:IPI00331549.1	Dhrs1 Dehydrogenase/reductase SDR family member 1	3.68	13.42	2
2448	IPI:IPI00139637.1	Copz1 Coatamer subunit zeta-1	3.68	16.95	3
2449	IPI:IPI00459652.3	Ftsjd2 Cap-specific mRNA (nucleoside-2'-O)-methyltransferase 1	3.67	3.823	3
2450	IPI:IPI00387377.1	Srp54a Isoform 1 of Signal recognition particle 54 kDa protein	3.67	7.341	2
2451	IPI:IPI00222977.1	Srp68 Signal recognition particle 68 kDa protein	3.66	7.36	4
2452	IPI:IPI00112339.9	Lima1 LIM domain and actin-binding protein 1 isoform a	3.66	4.382	2
2453	IPI:IPI00331111.1	Ccbl1 Kynurenine--oxoglutarate transaminase 1	3.66	7.547	2
2454	IPI:IPI00467914.3	H1f0 Histone H1.0	3.65	10.82	3
2455	IPI:IPI00321005.5	Trim32 E3 ubiquitin-protein ligase TRIM32	3.65	5.496	4
2456	IPI:IPI00116843.1	mt-Nd4 NADH-ubiquinone oxidoreductase chain 4	3.64	5.882	2

2457	IPI:IPI00776182.2	Slc9a6 Sodium/hydrogen exchanger	3.64	4.627	2
2458	IPI:IPI00153987.4	Rnf214 Isoform 2 of RING finger protein 214	3.63	5.292	2
2459	IPI:IPI00469548.2	Syn2 Isoform IIa of Synapsin-2	3.62	6.143	3
2460	IPI:IPI00128230.1	Mta2 Metastasis-associated protein MTA2	3.62	3.443	2
2461	IPI:IPI00755389.2	Prpsap1 phosphoribosyl pyrophosphate synthetase-associated protein 1	3.62	16.36	4
2462	IPI:IPI00225192.1	Nup54 Nuclear pore complex protein Nup54	3.61	5.098	2
2463	IPI:IPI00119039.1	Cnpy3 Isoform 1 of Protein canopy homolog 3	3.61	9.783	3
2464	IPI:IPI00462291.5	Hmgb2 High mobility group protein B2	3.61	21.43	5
2465	IPI:IPI00474446.4	Eif2s1 Eukaryotic translation initiation factor 2 subunit 1	3.61	10.48	3
2466	IPI:IPI00875171.1	Fam120c Isoform 2 of Constitutive coactivator of PPAR-gamma-like protein 2	3.6	9.322	2
2467	IPI:IPI00466881.6	Tnnt3 Isoform A6e17 of Troponin T, fast skeletal muscle	3.59	14.12	4
2468	IPI:IPI00881566.1	Kif3a kinesin-like protein KIF3A	3.59	3.852	2
2469	IPI:IPI00224728.1	Cd63 Putative uncharacterized protein	3.59	8.434	2
2470	IPI:IPI00221725.2	Coro2b Coronin-2B	3.59	7.708	3
2471	IPI:IPI00380829.4	Trip11 thyroid hormone receptor interactor 11	3.59	1.063	2
2472	IPI:IPI00308484.3	Sparcl1 SPARC-like protein 1	3.57	3.692	2
2473	IPI:IPI00890027.1	Lgals3 19 kDa protein	3.57	26.51	4
2474	IPI:IPI00469933.3	Smek1 Isoform 1 of Serine/threonine-protein phosphatase 4 regulatory subunit 3A	3.56	3.171	2
2475	IPI:IPI00131994.1	Ndufb2 NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 2, mitochondrial	3.54	16.19	2
2476	IPI:IPI00336958.3	Zc3h15 Isoform 1 of Zinc finger CCCH domain-containing protein 15	3.54	6.573	3
2477	IPI:IPI00620256.3	Lmna Isoform A of Prelamin-A/C	3.54	4.511	3
2478	IPI:IPI00122100.1	Tceal1 Transcription elongation factor A protein-like 1	3.54	18.79	2
2479	IPI:IPI00115850.2	Idi1;LOC100044783 isopentenyl-diphosphate Delta-isomerase 1	3.53	10.95	2
2480	IPI:IPI00621460.2	Ap1g1 AP-1 complex subunit gamma-1	3.53	4.745	4
2481	IPI:IPI00222228.5	4732456N10Rik hypothetical protein LOC239673	3.53	7.435	5
2482	IPI:IPI00314984.4	Srsf10 Putative uncharacterized protein	3.53	14.84	2
2483	IPI:IPI00677130.2	Myof Isoform 2 of Myoferlin	3.52	3.583	3
2484	IPI:IPI00265358.1	Dhx38 Putative uncharacterized protein	3.52	2.524	2
2485	IPI:IPI00660556.1	Ddx46 Isoform 2 of Probable ATP-dependent RNA helicase DDX46	3.52	3.116	2
2486	IPI:IPI00279218.1	Apeh Isoform 2 of Acylamino-acid-releasing enzyme	3.52	4.603	2
2487	IPI:IPI00776324.1	Trim2 Putative uncharacterized protein	3.51	7.706	3
2488	IPI:IPI00387217.1	Cul2 Isoform 2 of Cullin-2	3.51	3.541	2
2489	IPI:IPI00310518.3	Ccdc47 Isoform 1 of Coiled-coil domain-containing	3.51	3.727	2

		protein 47			
2490	IPI:IPI00120848.1	Ogn Mimecan	3.5	11.74	2
2491	IPI:IPI00420152.3	Ttyh1 Isoform 4 of Protein tweety homolog 1	3.5	8.261	3
2492	IPI:IPI00850156.1	Mia3 Isoform 3 of Melanoma inhibitory activity protein 3	3.49	4.609	2
2493	IPI:IPI00111020.1	Prcc papillary renal cell carcinoma translocation-associated gene product	3.49	3.666	2
2494	IPI:IPI00753456.1	Rps24 Isoform 3 of 40S ribosomal protein S24	3.48	26.72	3
2495	IPI:IPI00415385.1	Bclaf1 Isoform 1 of Bcl-2-associated transcription factor 1	3.48	3.482	2
2496	IPI:IPI00138860.3	Golga4 Golgin subfamily A member 4	3.48	1.564	4
2497	IPI:IPI00129268.1	Gng3 Guanine nucleotide-binding protein G(I)/G(S)/G(O) subunit gamma-3	3.47	49.33	2
2498	IPI:IPI00874453.1	Sh3bgrl2 SH3 domain-binding glutamic acid-rich-like protein 2	3.46	18.69	2
2499	IPI:IPI00757517.1	Ttc7b tetratricopeptide repeat domain 7B	3.45	3.084	2
2500	IPI:IPI00132659.1	Rwdd1 RWD domain-containing protein 1	3.45	10.29	2
2501	IPI:IPI00122862.4	Mthfd1 C-1-tetrahydrofolate synthase, cytoplasmic	3.45	2.567	2
2502	IPI:IPI00127501.1	Grcc10 Protein C10	3.43	28.57	3
2503	IPI:IPI00116896.1	mt-Atp8 ATP synthase protein 8	3.42	23.88	2
2504	IPI:IPI00270110.4	Cab39l Isoform 1 of Calcium-binding protein 39-like	3.42	7.715	3
2505	IPI:IPI00848519.1	LOC100039215 similar to translin associated protein X isoform 1	3.4	33.43	8
2506	IPI:IPI00877323.1	Cab39 calcium-binding protein 39	3.4	6.745	3
2507	IPI:IPI00137706.1	Mpp1 55 kDa erythrocyte membrane protein	3.39	7.511	2
2508	IPI:IPI00221663.5	Bpgm Bisphosphoglycerate mutase	3.39	9.266	3
2509	IPI:IPI00875550.1	Ube2o ubiquitin-conjugating enzyme E2 O	3.39	4.581	3
2510	IPI:IPI00751818.1	Galk2 N-acetylgalactosamine kinase	3.38	5.369	2
2511	IPI:IPI00110100.1	Armc1 Armadillo repeat-containing protein 1	3.38	12.77	2
2512	IPI:IPI00830314.1	Sdr39u1 Isoform 1 of Epimerase family protein SDR39U1	3.38	9.091	3
2513	IPI:IPI00454151.1	Cnbp Isoform 3 of Cellular nucleic acid-binding protein	3.37	12.99	2
2514	IPI:IPI00154082.2	Sf3b4 Splicing factor 3B subunit 4	3.36	10.14	2
2515	IPI:IPI00122399.1	Glg1 Golgi apparatus protein 1	3.35	1.787	2
2516	IPI:IPI00226608.2	Tbcel Isoform 2 of Tubulin-specific chaperone cofactor E-like protein	3.35	7.466	2
2517	IPI:IPI00109455.3	Nudt16 U8 snoRNA-decapping enzyme	3.35	11.28	2
2518	IPI:IPI00131693.2	Cntfr Ciliary neurotrophic factor receptor subunit alpha	3.35	13.44	2
2519	IPI:IPI00409045.2	Ensa Isoform 1 of Alpha-endosulfine	3.34	14.88	2
2520	IPI:IPI00124819.1	Coro1b Coronin-1B	3.34	17.36	4

2521	IPI:IPI00648905.1	Wbp2 WW domain binding protein 2, isoform CRA_a	3.34	11.57	3
2522	IPI:IPI00885793.1	Fga fibrinogen, alpha polypeptide isoform 1	3.34	3.169	2
2523	IPI:IPI00132388.3	Bzw1 Basic leucine zipper and W2 domain-containing protein 1	3.33	8.115	3
2524	IPI:IPI00462157.1	Trim72 Tripartite motif-containing protein 72	3.33	9.015	2
2525	IPI:IPI00556893.3	Gm10093 Uncharacterized protein	3.33	3.734	2
2526	IPI:IPI00112493.2	Apool Apolipoprotein O-like	3.32	12.08	2
2527	IPI:IPI00124709.3	Rps27l 40S ribosomal protein S27-like	3.32	38.1	4
2528	IPI:IPI00928541.1	Rbm25 Isoform 2 of RNA-binding protein 25	3.32	5.489	3
2529	IPI:IPI00318012.6	Itfg1 T-cell immunomodulatory protein	3.31	7.213	3
2530	IPI:IPI00319369.1	Tbl2 Transducin (Beta)-like 2	3.31	5.43	2
2531	IPI:IPI00848728.1	LOC100045132 similar to polyglutamine-containing protein	3.31	4.322	2
2532	IPI:IPI00263822.7	Prkacb Isoform 1 of cAMP-dependent protein kinase catalytic subunit beta	3.3	30.2	9
2533	IPI:IPI00111960.2	Gaa Lysosomal alpha-glucosidase	3.3	3.253	2
2534	IPI:IPI00896672.1	Prpf4b serine/threonine-protein kinase PRP4 homolog	3.29	2.88	3
2535	IPI:IPI00465809.2	Kif3b Kinesin-like protein KIF3B	3.29	5.489	2
2536	IPI:IPI00130883.1	Rbm3 Putative RNA-binding protein 3	3.28	18.3	5
2537	IPI:IPI00761240.4	6330577E15Rik 34 kDa protein	3.28	6.931	2
2538	IPI:IPI00130236.4	Arih1 Protein ariadne-1 homolog	3.28	5.225	3
2539	IPI:IPI00955735.1	Exog nuclease EXOG, mitochondrial isoform 1 precursor	3.27	8.673	3
2540	IPI:IPI00131882.1	Opn1mw Green-sensitive opsin	3.27	8.635	3
2541	IPI:IPI00321739.1	Akap8 A-kinase anchor protein 8	3.27	6.405	2
2542	IPI:IPI00387421.1	Wdr37 WD repeat-containing protein 37	3.26	6.653	2
2543	IPI:IPI00272238.5	Metap2 Methionine aminopeptidase	3.25	6.762	2
2544	IPI:IPI00407764.6	Dis3 Exosome complex exonuclease RRP44	3.25	2.714	2
2545	IPI:IPI00122633.3	Acsf2 Acyl-CoA synthetase family member 2, mitochondrial	3.25	6.016	4
2546	IPI:IPI00117056.1	Osgep Probable O-sialoglycoprotein endopeptidase	3.24	10.75	3
2547	IPI:IPI00127237.1	Pex14 Peroxisomal membrane protein PEX14	3.24	7.447	2
2548	IPI:IPI00649302.5	Alpl Alkaline phosphatase	3.24	4.962	2
2549	IPI:IPI00850738.1	LOC100046039 similar to histone deacetylase HD1	3.24	3.974	2
2550	IPI:IPI00911179.1	Zfp207 zinc finger protein 207 isoform 4	3.24	6.304	2
2551	IPI:IPI00132460.1	Rpl26 60S ribosomal protein L26	3.23	12.41	2
2552	IPI:IPI00876431.1	Inpp4a Inpp4a protein	3.22	3.24	2
2553	IPI:IPI00135812.2	Gtf2f2 General transcription factor IIF subunit 2	3.22	15.26	3
2554	IPI:IPI00387370.1	Uap1 Isoform AGX2 of UDP-N-acetylhexosamine pyrophosphorylase	3.22	6.897	2

2555	IPI:IPI00111343.1	Ppie Peptidyl-prolyl cis-trans isomerase E	3.2	20.6	7
2556	IPI:IPI00854952.1	Slc30a9 Isoform 2 of Zinc transporter 9	3.2	7.715	2
2557	IPI:IPI00113660.1	Psme3 Proteasome activator complex subunit 3	3.2	21.65	6
2558	IPI:IPI00754252.2	Ahcyl2 putative adenosylhomocysteinase 3 isoform 2	3.2	9.502	5
2559	IPI:IPI00119227.1	Ube2i;LOC100044900 SUMO-conjugating enzyme UBC9	3.19	18.35	4
2560	IPI:IPI00113310.3	Tmem27 Collectrin	3.19	13.06	2
2561	IPI:IPI00856140.1	Ppp1r2 Uncharacterized protein	3.18	23.59	2
2562	IPI:IPI00749735.1	Wbp2 Putative uncharacterized protein	3.18	4.598	2
2563	IPI:IPI00669631.2	Hmgb3 High mobility group box 3	3.17	22.01	3
2564	IPI:IPI00831223.1	Itn1 195 kDa protein	3.17	2.676	3
2565	IPI:IPI00134018.2	2410004B18Rik UPF0690 protein C1orf52 homolog	3.17	13.33	2
2566	IPI:IPI00123196.1	Dcn Decorin	3.17	6.215	2
2567	IPI:IPI00475301.2	LOC100045388 similar to Chain A, Crystal Structure Of Human Rangap1-Ubc9	3.17	11.21	3
2568	IPI:IPI00222553.7	Rps29;Gm14303 40S ribosomal protein S29	3.17	28.57	3
2569	IPI:IPI00121322.2	Etfdh Electron transfer flavoprotein-ubiquinone oxidoreductase, mitochondrial	3.16	6.169	3
2570	IPI:IPI00221741.1	Tipr1 TIP41-like protein	3.16	15.87	2
2571	IPI:IPI00749669.1	Slk Isoform 2 of STE20-like serine/threonine-protein kinase	3.16	3.577	3
2572	IPI:IPI00281011.7	Marcks11 MARCKS-related protein	3.15	28	3
2573	IPI:IPI00262488.9	Crip1 Cysteine-rich protein 1	3.15	12.99	2
2574	IPI:IPI00755515.1	Gm5160 Peptidyl-prolyl cis-trans isomerase	3.15	47.62	30
2575	IPI:IPI00116414.2	Sntb1 Isoform 1 of Beta-1-syntrophin	3.15	7.263	3
2576	IPI:IPI00623970.3	Htt Isoform Short of Huntingtin	3.14	1.742	3
2577	IPI:IPI00313525.5	Ncoa5 Nuclear receptor coactivator 5	3.14	8.027	2
2578	IPI:IPI00127358.1	Sh3bgrl3 SH3 domain-binding glutamic acid-rich-like protein 3	3.14	31.18	2
2579	IPI:IPI00759953.1	Try5 trypsin 5	3.13	16.67	18
2580	IPI:IPI00124700.1	Tfrc Transferrin receptor protein 1	3.13	3.801	3
2581	IPI:IPI00762316.3	Gnl1 Isoform 1 of Guanine nucleotide-binding protein-like 1	3.13	6.919	3
2582	IPI:IPI00929874.1	1300010F03Rik Isoform 2 of Uncharacterized protein KIAA0564 homolog	3.13	1.349	2
2583	IPI:IPI00668276.3	Gm4795 similar to Glyceraldehyde-3-phosphate dehydrogenase	3.13	27.97	66
2584	IPI:IPI00664246.4	Nrbp1 Uncharacterized protein	3.12	6.63	3
2585	IPI:IPI00123519.6	Arl6ip1 ADP-ribosylation factor-like protein 6-interacting protein 1	3.11	7.882	2
2586	IPI:IPI00420724.4	Bub3 Putative uncharacterized protein	3.11	9.509	3
2587	IPI:IPI00858255.1	Paip1 Protein	3.1	6.289	2
2588	IPI:IPI00138131.3	Th Tyrosine 3-monooxygenase	3.1	9.639	2

2589	IPI:IPI00169711.1	Maoa Amine oxidase [flavin-containing] A	3.1	5.133	2
2590	IPI:IPI00115257.1	Psip1 Isoform 1 of PC4 and SFRS1-interacting protein	3.09	6.818	5
2591	IPI:IPI00461652.1	Gm6404 Uncharacterized protein	3.09	12.82	2
2592	IPI:IPI00319933.4	Pascin3 Protein kinase C and casein kinase II substrate protein 3	3.08	4.953	2
2593	IPI:IPI00329840.2	Rad21 Double-strand-break repair protein rad21 homolog	3.08	4.094	2
2594	IPI:IPI00308984.6	Eif1ax Eukaryotic translation initiation factor 1A, X-chromosomal	3.08	18.06	3
2595	IPI:IPI00653841.1	Capza1 Putative uncharacterized protein	3.08	23.1	4
2596	IPI:IPI00625592.2	Polr2a DNA-directed RNA polymerase	3.07	1.373	2
2597	IPI:IPI00129356.1	Itns1 Isoform 1 of Intersectin-1	3.07	1.634	2
2598	IPI:IPI00762542.2	Rps11 40S ribosomal protein S11	3.06	31.65	8
2599	IPI:IPI00323349.2	Tjp2 Tight junction protein ZO-2	3.06	2.913	2
2600	IPI:IPI00880901.1	Wdr61 Putative uncharacterized protein	3.05	10.39	2
2601	IPI:IPI00649136.1	Rpl26 Ribosomal protein L26	3.05	17.48	2
2602	IPI:IPI00322019.1	Mgat5 Alpha-1,6-mannosylglycoprotein 6-beta-N-acetylglucosaminyltransferase A	3.04	2.703	2
2603	IPI:IPI00120046.1	Xrn2 Isoform 1 of 5'-3' exoribonuclease 2	3.04	2.734	2
2604	IPI:IPI00875164.1	Inpp4b Type II inositol-3,4-bisphosphate 4-phosphatase	3.03	3.571	2
2605	IPI:IPI00137439.1	Map2k6 Dual specificity mitogen-activated protein kinase kinase 6	3.02	6.287	2
2606	IPI:IPI00877348.1	Crygd gamma-crystallin D	3.02	68.97	70
2607	IPI:IPI00341322.3	Ndufb6 NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 6	3	19.53	2
2608	IPI:IPI00624988.4	Ctnn Putative uncharacterized protein	2.99	8.644	2
2609	IPI:IPI00889878.1	Srp54c Putative uncharacterized protein	2.99	7.371	2
2610	IPI:IPI00127267.4	Gldc Glycine dehydrogenase [decarboxylating], mitochondrial	2.98	4.976	3
2611	IPI:IPI00928561.1	Arfgef1 Uncharacterized protein	2.98	2.372	2
2612	IPI:IPI00123183.3	Aqp1 Aquaporin-1	2.97	10.78	2
2613	IPI:IPI00131618.1	Stx1a Syntaxin-1A	2.96	11.81	3
2614	IPI:IPI00625702.1	Gm10269 Uncharacterized protein	2.96	15.45	2
2615	IPI:IPI00890054.1	Arl1 Putative uncharacterized protein	2.96	12.15	2
2616	IPI:IPI00119478.1	Tmod3 Tropomodulin-3	2.95	9.943	2
2617	IPI:IPI00136253.3	Dnajb1 DnaJ homolog subfamily B member 1	2.95	7.941	3
2618	IPI:IPI00317902.3	Psmb5 Proteasome subunit beta type-5	2.93	15.15	5
2619	IPI:IPI00134420.1	Gdpd1 Glycerophosphodiester phosphodiesterase domain-containing protein 1	2.93	12.74	4
2620	IPI:IPI00133776.1	Mcee Methylmalonyl-CoA epimerase, mitochondrial	2.93	17.98	2
2621	IPI:IPI00153633.2	Ctage5 cutaneous T-cell lymphoma-associated	2.93	4.156	2

		antigen 5 homolog isoform 1			
2622	IPI:IPI00331236.4	Setd7 Histone-lysine N-methyltransferase SETD7	2.92	7.65	2
2623	IPI:IPI00943373.1	Fn3krp ketosamine-3-kinase	2.92	12.62	3
2624	IPI:IPI00276051.5	Sin3a Isoform 1 of Paired amphipathic helix protein Sin3a	2.92	1.962	2
2625	IPI:IPI00762128.2	Tst Uncharacterized protein	2.91	6.757	2
2626	IPI:IPI00345706.6	Lactbl1 Uncharacterized protein	2.91	5.714	3
2627	IPI:IPI00265345.1	Prss34 Protease serine 34	2.91	4.403	3
2628	IPI:IPI00112668.1	Commd8 COMM domain-containing protein 8	2.9	17.49	2
2629	IPI:IPI00128791.1	Hspb6 Heat shock protein beta-6	2.88	14.2	2
2630	IPI:IPI00403780.1	Rbm4 Isoform 2 of RNA-binding protein 4	2.88	10.71	2
2631	IPI:IPI00473425.1	Pcbp3 Pcbp3 protein	2.88	77.51	28
2632	IPI:IPI00114232.1	Hdac1 Histone deacetylase 1	2.88	3.734	2
2633	IPI:IPI00880581.3	Hagh Isoform 2 of Hydroxyacylglutathione hydrolase, mitochondrial	2.88	17.69	3
2634	IPI:IPI00230150.1	Snrpg;Gm8186 Small nuclear ribonucleoprotein G	2.86	35.53	3
2635	IPI:IPI00406302.2	Serpina1a Alpha-1-antitrypsin 1-1	2.86	28.81	15
2636	IPI:IPI00133491.1	Phf5a PHD finger-like domain-containing protein 5A	2.85	14.55	2
2637	IPI:IPI00319509.5	Anpep Aminopeptidase N	2.84	2.174	2
2638	IPI:IPI00344142.4	Lin7a Protein lin-7 homolog A	2.84	31.33	7
2639	IPI:IPI00402968.1	Ehd2 EH domain-containing protein 2	2.84	6.446	4
2640	IPI:IPI00849654.1	- similar to Lsm6 protein	2.83	18.27	2
2641	IPI:IPI00473707.3	Sept6 Isoform I of Septin-6	2.83	4.918	2
2642	IPI:IPI00858238.1	Ndufa3 Uncharacterized protein	2.82	30	2
2643	IPI:IPI00854018.1	Celf2 Isoform 6 of CUGBP Elav-like family member 2	2.82	6.489	4
2644	IPI:IPI00761998.1	Gm6900 hypothetical protein LOC628596	2.82	42.48	4
2645	IPI:IPI00132122.3	Smc3 Structural maintenance of chromosomes protein 3	2.81	2.547	3
2646	IPI:IPI00798614.1	Mrpl15 Isoform 1 of 39S ribosomal protein L15, mitochondrial	2.81	5.085	2
2647	IPI:IPI00127227.2	Cbr4 Carbonyl reductase family member 4	2.81	12.71	2
2648	IPI:IPI00467442.4	Tnnt3 Isoform 14 of Troponin T, fast skeletal muscle	2.81	11.03	3
2649	IPI:IPI00918580.1	Pi4ka Protein	2.8	10.31	2
2650	IPI:IPI00889265.1	Ncdn Isoform 2 of Neurochondrin	2.8	3.23	2
2651	IPI:IPI00265386.5	Faf2 Isoform 1 of FAS-associated factor 2	2.8	7.865	2
2652	IPI:IPI00874856.1	Efr3a Uncharacterized protein	2.8	3.541	2
2653	IPI:IPI00848970.1	Pgam5 Isoform 1 of Serine/threonine-protein phosphatase PGAM5, mitochondrial	2.79	3.125	1
2654	IPI:IPI00420718.4	Hmgcs2 Hydroxymethylglutaryl-CoA synthase, mitochondrial	2.79	7.087	2

2655	IPI:IPI00230241.6	Atp5e ATP synthase subunit epsilon, mitochondrial	2.79	53.85	5
2656	IPI:IPI00227898.3	Prkcb Protein kinase C beta type	2.79	7.132	4
2657	IPI:IPI00895129.1	Mybpc1 Uncharacterized protein	2.78	2.484	2
2658	IPI:IPI00856453.1	Eif4g1 Eif4g1 protein	2.78	1.545	3
2659	IPI:IPI00116705.5	Fabp4 Fatty acid-binding protein, adipocyte	2.77	13.64	3
2660	IPI:IPI00118900.1	Pde1b Calcium/calmodulin-dependent 3',5'-cyclic nucleotide phosphodiesterase 1B	2.77	4.486	2
2661	IPI:IPI00221464.2	Rnf214 Isoform 1 of RING finger protein 214	2.76	4.341	2
2662	IPI:IPI00928500.1	Osgep 20 kDa protein	2.76	15.59	2
2663	IPI:IPI00762599.1	Tsc22d2 TSC22 domain family, member 2	2.75	3.771	3
2664	IPI:IPI00122826.1	Cend1 Cell cycle exit and neuronal differentiation protein 1	2.75	14.09	2
2665	IPI:IPI00408243.1	Ssbp1 single-stranded DNA-binding protein, mitochondrial isoform 1	2.75	16.22	2
2666	IPI:IPI00230395.5	Anxa1 Annexin A1	2.75	10.4	3
2667	IPI:IPI00115426.1	Gm9174;Cdc26 Anaphase-promoting complex subunit CDC26	2.75	12.94	1
2668	IPI:IPI00606716.2	Ptpn23 Isoform 2 of Tyrosine-protein phosphatase non-receptor type 23	2.73	2.189	2
2669	IPI:IPI00165799.1	Ubxn4 UBX domain-containing protein 4	2.72	7.312	2
2670	IPI:IPI00785231.1	Pnn pinin	2.71	6.345	3
2671	IPI:IPI00463468.3	Nop58 Nucleolar protein 58	2.71	5.784	2
2672	IPI:IPI00270877.5	Usp14 Ubiquitin carboxyl-terminal hydrolase 14	2.69	8.925	3
2673	IPI:IPI00127560.1	Ttr Transthyretin	2.69	20.41	2
2674	IPI:IPI00227640.1	Commd3 COMM domain-containing protein 3	2.69	10.77	2
2675	IPI:IPI00652358.5	Arsb Isoform 1 of Arylsulfatase B	2.69	4.12	2
2676	IPI:IPI00849786.1	LOC100045189 similar to transcription factor EF1	2.68	24.31	7
2677	IPI:IPI00890144.1	Slc4a8 Isoform 2 of Electroneutral sodium bicarbonate exchanger 1	2.68	5.111	4
2678	IPI:IPI00380392.1	Rps6ka5 Isoform 1 of Ribosomal protein S6 kinase alpha-5	2.68	4.762	2
2679	IPI:IPI00896020.1	Hp1bp3 Isoform 2 of Heterochromatin protein 1-binding protein 3	2.68	3.512	2
2680	IPI:IPI00116804.1	Eif2b2 Translation initiation factor eIF-2B subunit beta	2.68	10.26	2
2681	IPI:IPI00648295.1	Kdm1a Amine oxidase (Flavin containing) domain 2	2.68	2.291	2
2682	IPI:IPI00229990.7	Strn3 Striatin-3	2.67	4.774	2
2683	IPI:IPI00648235.1	Nt5c3 Isoform 1 of Cytosolic 5'-nucleotidase 3	2.67	9.764	2
2684	IPI:IPI00969952.1	Glb1l2 Beta-galactosidase	2.67	3.378	2
2685	IPI:IPI00848627.1	Akt1;LOC100047666 RAC-alpha serine/threonine-protein kinase isoform 2	2.66	2.664	1
2686	IPI:IPI00308136.3	Vps33a vacuolar protein sorting-associated protein 33A	2.65	3.01	2
2687	IPI:IPI00461744.2	Gorasp2 Golgi reassembly stacking protein 2,	2.65	9.977	4

		isoform CRA_d			
2688	IPI:IPI00969876.1	Srrm1 serine/arginine repetitive matrix protein 1 isoform 1	2.65	2.709	2
2689	IPI:IPI00153201.1	Gga1 ADP-ribosylation factor-binding protein GGA1	2.64	3.465	3
2690	IPI:IPI00323674.6	Sart1 U4/U6.U5 tri-snRNP-associated protein 1	2.64	3.598	2
2691	IPI:IPI00331040.1	Plcd3 1-phosphatidylinositol-4,5-bisphosphate phosphodiesterase delta-3	2.64	4.586	2
2692	IPI:IPI00850151.1	LOC100047093 similar to Ubiquitin-conjugating enzyme UbcH2	2.64	9.294	2
2693	IPI:IPI00876416.1	Bcar1 94 kDa protein	2.64	5.034	2
2694	IPI:IPI00462075.4	Gm5507 similar to Glyceraldehyde-3-phosphate dehydrogenase	2.63	67.16	92
2695	IPI:IPI00556869.1	Ptprd receptor-type tyrosine-protein phosphatase delta isoform A	2.61	2.552	2
2696	IPI:IPI00968397.1	- Putative uncharacterized protein	2.61	17.19	2
2697	IPI:IPI00411045.1	Synm Isoform 2 of Synemin	2.61	2.065	2
2698	IPI:IPI00658539.1	Ctsa lysosomal protective protein isoform a	2.6	3.252	2
2699	IPI:IPI00169469.1	Ccdc72;Gm15431 Coiled-coil domain-containing protein 72	2.6	39.06	3
2700	IPI:IPI00957112.1	Capns1 calpain small subunit 1	2.59	12.31	3
2701	IPI:IPI00876174.1	Akr1e1 28 kDa protein	2.59	13.47	2
2702	IPI:IPI00321581.4	Snap29 Synaptosomal-associated protein 29	2.58	10.38	2
2703	IPI:IPI00828479.1	Acox1 Acyl-Coenzyme A oxidase 1, palmitoyl, isoform CRA_a	2.57	4.236	2
2704	IPI:IPI00222739.2	Nrbp1 Nuclear receptor-binding protein	2.56	4.86	2
2705	IPI:IPI00310669.3	Dak Bifunctional ATP-dependent dihydroxyacetone kinase/FAD-AMP lyase (cyclizing)	2.56	5.017	2
2706	IPI:IPI00112335.1	Map2k4 Dual specificity mitogen-activated protein kinase kinase 4	2.55	3.275	2
2707	IPI:IPI00124073.1	Nxn Isoform 1 of Nucleoredoxin	2.55	9.655	2
2708	IPI:IPI00853739.1	Gm4492 similar to gag	2.55	5.772	2
2709	IPI:IPI00886106.1	Khk 38 kDa protein	2.54	5.539	2
2710	IPI:IPI00281109.3	Myom1 Isoform 2 of Myomesin-1	2.53	1.721	2
2711	IPI:IPI00458908.2	Prpf4 U4/U6 small nuclear ribonucleoprotein Prp4	2.52	4.031	2
2712	IPI:IPI00111946.1	1810009N02Rik Putative uncharacterized protein	2.52	12.02	2
2713	IPI:IPI00379625.2	Nova2 Uncharacterized protein	2.52	4.46	2
2714	IPI:IPI00130733.3	Dhodh Dihydroorotate dehydrogenase, mitochondrial	2.51	3.544	1
2715	IPI:IPI00830283.1	Abhd6 Isoform 2 of Monoacylglycerol lipase ABHD6	2.51	10.38	2
2716	IPI:IPI00108098.1	Cd82 CD82 antigen	2.5	8.647	2
2717	IPI:IPI00876048.1	Ppp1r12a Isoform 2 of Protein phosphatase 1 regulatory subunit 12A	2.5	3.187	3

2718	IPI:IPI00135207.3	Ccar1 Isoform 1 of Cell division cycle and apoptosis regulator protein 1	2.5	3.054	3
2719	IPI:IPI00856307.2	3110003A17Rik UPF0727 protein C6orf115 homolog	2.5	19.75	1
2720	IPI:IPI00137460.3	Armc10 Isoform 2 of Armadillo repeat-containing protein 10	2.49	9.044	2
2721	IPI:IPI00222307.1	Nup93 Isoform 1 of Nuclear pore complex protein Nup93	2.49	3.175	1
2722	IPI:IPI00119880.1	Nudt3 Diphosphoinositol polyphosphate phosphohydrolase 1	2.49	11.9	1
2723	IPI:IPI00381495.5	Ccdc6 Uncharacterized protein	2.49	7.036	2
2724	IPI:IPI00622184.3	Cog2 82 kDa protein	2.48	2.195	1
2725	IPI:IPI00130277.1	Ik Protein Red	2.48	7.899	2
2726	IPI:IPI00320503.2	Slc25a42 Solute carrier family 25 member 42	2.48	6.918	1
2727	IPI:IPI00553784.1	Pcnp PEST proteolytic signal-containing nuclear protein	2.48	6.18	1
2728	IPI:IPI00124064.3	Zdhhc5 Isoform 1 of Probable palmitoyltransferase ZDHHC5	2.48	3.636	2
2729	IPI:IPI00776335.1	Dmd Dystrophin, muscular dystrophy	2.47	4.305	2
2730	IPI:IPI00754723.2	Wdfy1 WD repeat and FYVE domain containing 1 isoform 1	2.47	3.902	1
2731	IPI:IPI00621973.3	Ylpm1 Uncharacterized protein	2.47	2.009	3
2732	IPI:IPI00263013.4	Plp1 Isoform 1 of Myelin proteolipid protein	2.46	4.693	1
2733	IPI:IPI00885273.1	Ncoa5 Nuclear receptor coactivator 5	2.46	8.027	2
2734	IPI:IPI00406371.3	Gfpt1 Isoform 1 of Glucosamine--fructose-6-phosphate aminotransferase [isomerizing] 1	2.45	3.73	2
2735	IPI:IPI00654342.2	Lpgat1 acyl-CoA:lysophosphatidylglycerol acyltransferase 1 isoform 1	2.45	3.423	1
2736	IPI:IPI00153266.1	Sccpdh Probable saccharopine dehydrogenase	2.45	4.895	2
2737	IPI:IPI00970320.1	Uck1 Protein	2.45	6.731	1
2738	IPI:IPI00132901.1	Lsm7;Gm10146 U6 snRNA-associated Sm-like protein LSm7	2.45	15.53	2
2739	IPI:IPI00554830.2	Gulo L-gulonolactone oxidase	2.44	4.773	2
2740	IPI:IPI00122293.3	Prelp Prolargin	2.44	3.439	1
2741	IPI:IPI00228590.2	Mfap1b;Mfap1a Microfibrillar-associated protein 1	2.44	8.656	2
2742	IPI:IPI00170051.2	Hscb Iron-sulfur cluster co-chaperone protein HscB, mitochondrial	2.43	9.829	2
2743	IPI:IPI00117583.3	Tmsb10;Gm9844 Thymosin beta-10	2.43	47.73	3
2744	IPI:IPI00130621.4	Rasa1 RAS p21 protein activator 1	2.43	2.119	2
2745	IPI:IPI00881179.1	BC100530 Uncharacterized protein	2.43	35.48	2
2746	IPI:IPI00830704.1	Tpm1 33 kDa protein	2.41	28.52	13
2747	IPI:IPI00228044.1	Camk2g Isoform 2 of Calcium/calmodulin-dependent protein kinase type II subunit gamma	2.4	27.41	16
2748	IPI:IPI00133339.1	LOC100048057;Fam103a1 Protein FAM103A1	2.4	12.61	1

2749	IPI:IPI00115787.1	Tm9sf2 Transmembrane 9 superfamily member 2	2.4	4.532	2
2750	IPI:IPI00968403.1	Spna2 spectrin alpha chain, brain isoform 3	2.4	62.84	184
2751	IPI:IPI00331734.5	H2afz Histone H2A.Z	2.39	35.16	5
2752	IPI:IPI00134506.1	Dguok Isoform 1 of Deoxyguanosine kinase, mitochondrial	2.38	16.61	2
2753	IPI:IPI00135208.1	Ccdc56 Coiled-coil domain-containing protein 56	2.38	20.37	2
2754	IPI:IPI00473215.6	Pitpnc1 Isoform 1 of Cytoplasmic phosphatidylinositol transfer protein 1	2.37	8.735	2
2755	IPI:IPI00350590.6	Txnrd2 Uncharacterized protein	2.37	4.618	1
2756	IPI:IPI00130018.1	Lypla1 Isoform 1 of Acyl-protein thioesterase 1	2.37	16.09	2
2757	IPI:IPI00894946.1	Lpo Lactoperoxidase	2.36	1.69	1
2758	IPI:IPI00399812.3	Rogdi Isoform 1 of Protein rogdi homolog	2.36	11.5	2
2759	IPI:IPI00135390.2	Coro7 Coronin-7	2.36	5.531	2
2760	IPI:IPI00830990.2	Pak3 PAK3cb protein	2.36	13.28	6
2761	IPI:IPI00316469.4	Stt3b Dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit STT3B	2.36	1.701	1
2762	IPI:IPI00929832.1	Nup205 nucleoporin 205	2.36	1.394	2
2763	IPI:IPI00119784.1	Ide Insulin-degrading enzyme	2.35	8.93	8
2764	IPI:IPI00130144.2	Ephx1 Microsomal epoxide hydrolase	2.35	1.758	1
2765	IPI:IPI00850336.2	Polr2l DNA-directed RNA polymerases I, II, and III subunit RPABC5	2.35	16.42	1
2766	IPI:IPI00918881.1	Man2c1 Man2c1 protein	2.35	1.17	1
2767	IPI:IPI00876029.1	Arf4 20 kDa protein	2.35	39.23	6
2768	IPI:IPI00669522.4	Clasp1 Isoform 2 of CLIP-associating protein 1	2.35	2.949	3
2769	IPI:IPI00885921.2	- Clk2-Scamp3 protein	2.35	2.089	1
2770	IPI:IPI00918201.1	Ptgr2 Putative uncharacterized protein	2.35	7.937	3
2771	IPI:IPI00153728.1	Ddx19b Putative uncharacterized protein	2.35	6.889	2
2772	IPI:IPI00263638.8	Ncald Neurocalcin-delta	2.34	29.02	6
2773	IPI:IPI00116825.1	Abcf2 ATP-binding cassette sub-family F member 2	2.34	3.185	2
2774	IPI:IPI00475058.2	Brp44l Putative uncharacterized protein	2.34	6.587	1
2775	IPI:IPI00471256.2	Prkra Interferon-inducible double stranded RNA-dependent protein kinase activator A	2.33	6.07	1
2776	IPI:IPI00460715.2	Nrxn3 Uncharacterized protein	2.33	1.303	1
2777	IPI:IPI00606769.1	Trp53rk Nori-2 protein	2.33	10.66	1
2778	IPI:IPI00876056.1	Taf15 62 kDa protein	2.33	4.924	5
2779	IPI:IPI00752884.1	LOC100047616 similar to adenylate kinase 4	2.33	3.374	1
2780	IPI:IPI00131143.1	Sel1l Isoform 1 of Protein sel-1 homolog 1	2.32	5.696	3
2781	IPI:IPI00874743.1	Trmt6 59 kDa protein	2.31	5.133	2
2782	IPI:IPI00222237.3	Ccdc126 Isoform 1 of Coiled-coil domain-containing protein 126	2.31	21.43	3
2783	IPI:IPI00515177.1	Crlf3 41 kDa protein	2.31	3.867	1
2784	IPI:IPI00122273.1	Dag1 Dystroglycan	2.31	1.68	1
2785	IPI:IPI00929853.1	Rnpep aminopeptidase B isoform 1	2.3	3.846	3

2786	IPI:IPI00110623.1	Cryba1 Beta-crystallin A1	2.3	66.16	67
2787	IPI:IPI00119622.1	Csad Cysteine sulfinic acid decarboxylase	2.29	3.448	1
2788	IPI:IPI00830701.1	Tpm1 37 kDa protein	2.29	34.97	15
2789	IPI:IPI00114241.2	Nefh Neurofilament heavy polypeptide	2.29	3.945	6
2790	IPI:IPI00112053.1	Snx5 Sorting nexin-5	2.29	7.673	2
2791	IPI:IPI00313824.2	Gosr2 Golgi SNAP receptor complex member 2	2.27	9.906	2
2792	IPI:IPI00919281.1	1810035L17Rik 11 kDa protein	2.27	27.45	2
2793	IPI:IPI00265467.3	Rgs6 Regulator of G-protein signaling 6	2.27	9.534	2
2794	IPI:IPI00136782.1	Polr3c Isoform 1 of DNA-directed RNA polymerase III subunit RPC3	2.27	2.251	2
2795	IPI:IPI00225062.2	Srrm2 Isoform 3 of Serine/arginine repetitive matrix protein 2	2.26	1.882	3
2796	IPI:IPI00625723.2	Zc3h4 Isoform 2 of Zinc finger CCCH domain-containing protein 4	2.26	1.31	1
2797	IPI:IPI00894963.1	Dgke Diacylglycerol kinase epsilon	2.26	2.305	2
2798	IPI:IPI00655029.1	Sorbs1 sorbin and SH3 domain-containing protein 1 isoform 2	2.26	1.706	1
2799	IPI:IPI00223738.2	Oxsr1 Serine/threonine-protein kinase OSR1	2.26	3.605	1
2800	IPI:IPI00416918.3	Ccdc93 Coiled-coil domain-containing protein 93	2.26	2.862	1
2801	IPI:IPI00113528.1	Tm9sf3 Transmembrane 9 superfamily member 3	2.25	4.429	1
2802	IPI:IPI00831587.1	Sec24a SEC24 related gene family, member A	2.24	1.861	1
2803	IPI:IPI00654396.1	Kcnp3 calsenilin isoform b	2.24	6.957	2
2804	IPI:IPI00331260.1	Fam192a Protein FAM192A	2.24	8.268	2
2805	IPI:IPI00226466.6	Dnajc11 DnaJ homolog subfamily C member 11	2.24	3.22	1
2806	IPI:IPI00124286.2	Ap3m2 AP-3 complex subunit mu-2	2.24	5.024	1
2807	IPI:IPI00170357.5	Afg3l2 AFG3-like protein 2	2.24	5.86	2
2808	IPI:IPI00420710.1	Galnt2 Isoform 1 of Polypeptide N-acetylgalactosaminyltransferase 2	2.24	1.754	1
2809	IPI:IPI00831483.2	Rps15 Uncharacterized protein	2.24	25.42	2
2810	IPI:IPI00816940.1	Lrba Isoform 3 of Lipopolysaccharide-responsive and beige-like anchor protein	2.23	1.512	3
2811	IPI:IPI00848775.1	Gm16470 similar to Glyceraldehyde-3-phosphate dehydrogenase	2.23	50.94	89
2812	IPI:IPI00110027.1	Gm6776 similar to leucine zipper transcription factor-like 1	2.23	5.017	1
2813	IPI:IPI00316133.7	Srp72 signal recognition particle 72	2.22	2.832	2
2814	IPI:IPI00885621.1	Plrg1 Uncharacterized protein	2.22	4.762	2
2815	IPI:IPI00867895.1	Acap2 Isoform 1 of Arf-GAP with coiled-coil, ANK repeat and PH domain-containing protein 2	2.22	1.299	1
2816	IPI:IPI00653300.1	Tm9sf2 Putative uncharacterized protein	2.22	4.478	2
2817	IPI:IPI00132148.1	Uqcr11 Cytochrome b-c1 complex subunit 10	2.21	21.43	2
2818	IPI:IPI00761646.3	Abcb7 ATP-binding cassette sub-family B member 7, mitochondrial	2.21	1.33	1
2819	IPI:IPI00127492.1	Smap1 Stromal membrane-associated protein 1	2.21	2.955	2

2820	IPI:IPI00323600.4	Coro1a Coronin-1A	2.21	4.555	2
2821	IPI:IPI00466728.3	Frmd5 Isoform 1 of FERM domain-containing protein 5	2.21	2.321	2
2822	IPI:IPI00133126.1	Zwint ZW10 interactor	2.21	9.524	1
2823	IPI:IPI00221767.1	Nup107 Nuclear pore complex protein Nup107	2.2	2.052	2
2824	IPI:IPI00124281.4	Myo1b myosin-Ib isoform 2	2.2	1.897	1
2825	IPI:IPI00108085.1	Tial1 Nucleolysin TIAR	2.2	10.46	2
2826	IPI:IPI00221567.3	Sipa1l3 signal-induced proliferation-associated 1 like 3	2.2	0.5068	1
2827	IPI:IPI00277554.4	Mocs3 Adenylyltransferase and sulfurtransferase MOCS3	2.2	3.043	1
2828	IPI:IPI00133744.1	Ndufaf4 NADH dehydrogenase [ubiquinone] 1 alpha subcomplex assembly factor 4	2.19	8.092	1
2829	IPI:IPI00310578.3	Eny2 Enhancer of yellow 2 transcription factor homolog	2.19	16.83	1
2830	IPI:IPI00869371.1	Cnbp cellular nucleic acid-binding protein isoform 2	2.19	8.772	1
2831	IPI:IPI00464166.2	Ptpn23 Isoform 1 of Tyrosine-protein phosphatase non-receptor type 23	2.19	0.9456	1
2832	IPI:IPI00955696.1	Gabbr2 Isoform 1 of Gamma-aminobutyric acid receptor subunit beta-2	2.18	3.32	1
2833	IPI:IPI00116372.1	Mlf2 Myeloid leukemia factor 2	2.18	7.287	1
2834	IPI:IPI00749872.1	Slc1a2 Solute carrier family 1 (Glial high affinity glutamate transporter), member 2	2.18	4.508	1
2835	IPI:IPI00228113.5	Mthfd1l 111 kDa protein	2.18	3.418	3
2836	IPI:IPI00655083.1	Klc1 Kinesin light chain 1G	2.17	9.302	3
2837	IPI:IPI00320836.1	Nbea Isoform 4 of Neurobeachin	2.17	0.7847	2
2838	IPI:IPI00133418.1	Scg2 Secretogranin-2	2.17	2.755	2
2839	IPI:IPI00848943.1	Myof similar to Myoferlin (Fer-1-like protein 3) isoform 1	2.17	1.025	3
2840	IPI:IPI00849688.1	LOC100045228 similar to neuroligin 3	2.17	4.436	3
2841	IPI:IPI00915502.1	Ptprs Isoform 4 of Receptor-type tyrosine-protein phosphatase S	2.17	1.269	2
2842	IPI:IPI00653846.2	Ano2 Uncharacterized protein	2.17	2.724	1
2843	IPI:IPI00330864.1	Ate1 Arginyl-tRNA--protein transferase 1	2.17	3.34	1
2844	IPI:IPI00135842.1	Gm12571 similar to Lsm6 protein	2.17	12.5	1
2845	IPI:IPI00129362.1	Fads2 Fatty acid desaturase 2	2.17	3.604	2
2846	IPI:IPI00465884.7	Nploc4 Isoform 1 of Nuclear protein localization protein 4 homolog	2.16	5.263	2
2847	IPI:IPI00653706.1	Fam126b Isoform 2 of Protein FAM126B	2.16	1.877	1
2848	IPI:IPI00130046.1	Plcd1 Putative uncharacterized protein	2.16	3.439	1
2849	IPI:IPI00221791.5	Sirpa Isoform 2 of Tyrosine-protein phosphatase non-receptor type substrate 1	2.16	2.358	1
2850	IPI:IPI00462746.5	Spag9 Isoform 2 of C-Jun-amino-terminal kinase-	2.16	1.224	1

		interacting protein 4			
2851	IPI:IPI00115708.1	Pip4k2a Phosphatidylinositol-5-phosphate 4-kinase type-2 alpha	2.16	2.222	1
2852	IPI:IPI00330840.1	Golga1 Isoform 1 of Golgin subfamily A member 1	2.15	1.979	1
2853	IPI:IPI00125776.1	Timm8a1;Gm9797 Mitochondrial import inner membrane translocase subunit Tim8 A	2.15	45.36	2
2854	IPI:IPI00121579.1	Lsm1 U6 snRNA-associated Sm-like protein LSm1	2.15	15.79	2
2855	IPI:IPI00886141.1	Stxbp2 Stxbp2 protein	2.15	4.377	2
2856	IPI:IPI00515365.4	Abr Isoform 4 of Active breakpoint cluster region-related protein	2.15	1.205	1
2857	IPI:IPI00120923.2	Vps16 Isoform 1 of Vacuolar protein sorting-associated protein 16 homolog	2.15	2.741	2
2858	IPI:IPI00752131.1	LOC627816 similar to protein phosphatase 1cgamma isoform 9	2.15	6.154	2
2859	IPI:IPI00929857.2	Golgb1 golgi autoantigen, golgin subfamily b, macrogolgin 1	2.15	0.563	1
2860	IPI:IPI00266942.6	Esyt2 Isoform 1 of Extended synaptotagmin-2	2.15	1.538	1
2861	IPI:IPI00762083.2	Dpp6 dipeptidyl aminopeptidase-like protein 6 isoform 1	2.14	3.487	3
2862	IPI:IPI00109401.1	Rpap3 RNA polymerase II-associated protein 3	2.14	3.788	2
2863	IPI:IPI00124900.1	Auh Isoform 1 of Methylglutaconyl-CoA hydratase, mitochondrial	2.14	6.369	2
2864	IPI:IPI00458002.1	Atxn2l Isoform 3 of Ataxin-2-like protein	2.14	0.9588	1
2865	IPI:IPI00128570.5	Thtpa Thiamine-triphosphatase	2.14	4.911	1
2866	IPI:IPI00875654.1	Rbm10 103 kDa protein	2.14	1.613	1
2867	IPI:IPI00918397.1	Arfp1 41 kDa protein	2.13	9.29	2
2868	IPI:IPI00660262.4	Gpx4 phospholipid hydroperoxide glutathione peroxidase, nuclear isoform 1 precursor	2.13	7.115	2
2869	IPI:IPI00127204.1	Cox4i2 Cytochrome c oxidase subunit 4 isoform 2, mitochondrial	2.13	8.721	1
2870	IPI:IPI00121276.4	Mecr Trans-2-enoyl-CoA reductase, mitochondrial	2.13	5.63	2
2871	IPI:IPI00467004.5	Stat1 Putative uncharacterized protein	2.13	3.709	2
2872	IPI:IPI00122312.2	Fgg Putative uncharacterized protein	2.13	4.74	2
2873	IPI:IPI00848381.1	Grsf1 G-rich sequence factor 1 isoform 2	2.13	6.077	1
2874	IPI:IPI00754961.1	Adam22 Isoform 14 of Disintegrin and metalloproteinase domain-containing protein 22	2.13	2.605	1
2875	IPI:IPI00719866.1	H3f3b;H3f3a hypothetical protein isoform 1	2.13	6.618	1
2876	IPI:IPI00226687.4	Ndufaf1 complex I intermediate-associated protein 30, mitochondrial	2.13	3.333	1
2877	IPI:IPI00133001.1	4930524B15Rik Uncharacterized protein C5orf47 homolog	2.13	7.879	1
2878	IPI:IPI00124225.3	Psme2 Proteasome activator complex subunit 2	2.12	9.623	1
2879	IPI:IPI00849210.1	Gm5561 similar to ribosomal protein	2.12	5	1
2880	IPI:IPI00120187.3	Fmod Fibromodulin	2.12	2.926	1

2881	IPI:IPI00625954.4	Nt5dc2 5'-nucleotidase domain containing 2	2.12	2.821	1
2882	IPI:IPI00330619.3	Vac14 Protein VAC14 homolog	2.12	5.627	2
2883	IPI:IPI00129968.2	Emb Embigin	2.12	2.727	1
2884	IPI:IPI00128567.2	Ache Acetylcholinesterase	2.12	5.049	1
2885	IPI:IPI00756325.1	Esyt1 Isoform 2 of Extended synaptotagmin-1	2.11	2.352	2
2886	IPI:IPI00849284.3	Gcfc1 GC-rich sequence DNA-binding factor homolog	2.11	2.176	2
2887	IPI:IPI00626782.2	Arfgef1 ADP-ribosylation factor guanine nucleotide-exchange factor 1	2.11	1.842	3
2888	IPI:IPI00761932.3	B3galt1 Isoform 1 of Beta-1,3-glucosyltransferase	2.11	4.499	2
2889	IPI:IPI00228580.2	Fam123a Isoform 1 of Protein FAM123A	2.11	2.232	1
2890	IPI:IPI00115215.1	Tpmt Thiopurine S-methyltransferase	2.11	4.167	1
2891	IPI:IPI00922981.1	Rad23a Rad23a protein	2.11	8.287	2
2892	IPI:IPI00876559.1	Khsrp KH type splicing regulatory protein KSRP	2.11	45.75	36
2893	IPI:IPI00928374.1	Ncstn nicastrin precursor	2.11	2.401	2
2894	IPI:IPI00114252.1	Ptgds Prostaglandin-H2 D-isomerase	2.11	16.4	2
2895	IPI:IPI00330576.2	Rilp Rab-interacting lysosomal protein	2.11	5.691	2
2896	IPI:IPI00762232.1	Rpl9-ps7 Uncharacterized protein	2.11	8.333	2
2897	IPI:IPI00776156.1	Smarca1 SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 1	2.11	1.742	2
2898	IPI:IPI00380766.5	Rnf20 Isoform 1 of E3 ubiquitin-protein ligase BRE1A	2.11	1.131	1
2899	IPI:IPI00762596.3	Inf2 Isoform 2 of Inverted formin-2	2.11	2.057	3
2900	IPI:IPI00229856.1	Dcaf8 Isoform 1 of DDB1- and CUL4-associated factor 8	2.11	2.707	1
2901	IPI:IPI00177205.1	Rheb GTP-binding protein Rheb	2.11	8.696	1
2902	IPI:IPI00380817.6	Bcr Breakpoint cluster region protein	2.11	0.7874	1
2903	IPI:IPI00751474.1	Atp2b4 plasma membrane calcium ATPase 4 isoform x/e	2.11	8.299	11
2904	IPI:IPI00319221.3	Ccdc12 Coiled-coil domain-containing protein 12	2.1	19.28	3
2905	IPI:IPI00468068.3	Hspb1 Isoform B of Heat shock protein beta-1	2.1	16.75	2
2906	IPI:IPI00404438.1	Picalm Isoform 6 of Phosphatidylinositol-binding clathrin assembly protein	2.1	7.822	6
2907	IPI:IPI00133108.1	Klk5 Putative uncharacterized protein	2.1	15.02	7
2908	IPI:IPI00351246.3	Mpp3 MAGUK p55 subfamily member 3	2.1	2.051	1
2909	IPI:IPI00317289.8	Dctn4 Isoform 2 of Dynactin subunit 4	2.1	4.783	2
2910	IPI:IPI00663957.1	- similar to Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) isoform 1	2.1	70.27	194
2911	IPI:IPI00928481.1	Impdh1 Protein	2.1	55.61	7
2912	IPI:IPI00128741.1	Cetn2 Centrin-2	2.1	11.05	2
2913	IPI:IPI00117888.1	Fadd Protein FADD	2.1	8.293	2
2914	IPI:IPI00119714.2	Ubtf Upstream binding transcription factor, RNA polymerase I, isoform CRA_b	2.1	1.862	1

2915	IPI:IPI00311165.2	Heph hephaestin isoform 2	2.1	3.07	2
2916	IPI:IPI00944193.1	Lrriq1 IQ domain-containing protein LRRIQ1 isoform 1	2.1	0.6575	1
2917	IPI:IPI00461629.1	Fxn Fxn protein	2.1	16.83	1
2918	IPI:IPI00274140.4	Arhgap32 Isoform 2 of Rho GTPase-activating protein 32	2.1	0.6322	1
2919	IPI:IPI00225288.3	Ccdc90b Isoform 1 of Coiled-coil domain-containing protein 90B, mitochondrial	2.1	7.031	1
2920	IPI:IPI00971293.1	Exoc3l2 hypothetical protein LOC74463	2.1	1.521	2
2921	IPI:IPI00653330.1	Alg1 Isoform 1 of Chitobiosyldiphosphodolichol beta-mannosyltransferase	2.1	2.697	1
2922	IPI:IPI00279642.2	Lrrc68 Leucine-rich repeat-containing protein 68	2.1	1.966	1
2923	IPI:IPI00480250.2	Epb4.1l1 Erythrocyte protein band 4.1-like 1, isoform CRA_a	2.1	6.113	4
2924	IPI:IPI00173233.2	Ank3 ankyrin 3, epithelial isoform f	2.1	1.554	1
2925	IPI:IPI00227757.2	Gramd1b Isoform 4 of GRAM domain-containing protein 1B	2.1	2.506	1
2926	IPI:IPI00831534.1	Ephx1 51 kDa protein	2.1	1.814	1
2927	IPI:IPI00331442.1	Msra Peptide methionine sulfoxide reductase	2.1	11.16	2
2928	IPI:IPI00885539.1	Actl6b 42 kDa protein	2.1	3.412	1
2929	IPI:IPI00938510.1	Csde1 cold shock domain-containing protein E1 isoform 2	2.09	3.651	4
2930	IPI:IPI00760074.1	Mylk Isoform 2 of Myosin light chain kinase, smooth muscle	2.09	1.892	1
2931	IPI:IPI00230005.3	Prkaca Isoform 1 of cAMP-dependent protein kinase catalytic subunit alpha	2.09	30.77	9
2932	IPI:IPI00667471.1	Ppp2r2a Serine/threonine-protein phosphatase 2A 55 kDa regulatory subunit B alpha isoform	2.09	3.132	1
2933	IPI:IPI00761270.1	Clip1 Isoform 2 of CAP-Gly domain-containing linker protein 1	2.09	4.791	4
2934	IPI:IPI00749627.1	LOC100048122 similar to Nudt4 protein	2.09	21.11	2
2935	IPI:IPI00848537.1	LOC100045253 similar to Scoc protein	2.09	9.137	1
2936	IPI:IPI00229324.1	Nmt2 Glycylpeptide N-tetradecanoyltransferase	2.09	4.124	2
2937	IPI:IPI00377609.2	Vcpip1 Isoform 1 of Deubiquitinating protein VCIP135	2.09	1.311	1
2938	IPI:IPI00648861.5	Asph aspartyl/asparaginyl beta-hydroxylase isoform 8	2.09	7.347	1
2939	IPI:IPI00380469.3	5031414D18Rik hypothetical protein LOC271221	2.09	1.481	1
2940	IPI:IPI00283876.6	Lcmt1 leucine carboxyl methyltransferase 1	2.09	12.65	2
2941	IPI:IPI00399575.3	Mprip Isoform 2 of Myosin phosphatase Rho-interacting protein	2.09	1.639	1
2942	IPI:IPI00753792.1	Stat3 Isoform Del-701 of Signal transducer and activator of transcription 3	2.09	1.951	1
2943	IPI:IPI00400421.1	Postn Isoform 3 of Periostin	2.09	1.728	1
2944	IPI:IPI00647977.1	Asph aspartyl/asparaginyl beta-hydroxylase	2.08	4	3

		isoform 3			
2945	IPI:IPI00653604.2	Ccdc102a Coiled-coil domain-containing protein 102A	2.08	2.55	1
2946	IPI:IPI00120257.1	Hsbsp1 Hsp70-binding protein 1	2.08	13.73	3
2947	IPI:IPI00622497.3	Cyfp2 Cytoplasmic FMR1 interacting protein 2	2.08	1.756	2
2948	IPI:IPI00319950.4	Mvd Diphosphomevalonate decarboxylase	2.08	3.491	1
2949	IPI:IPI00828766.1	Myo18a Isoform 5 of Myosin-XVIIIa	2.08	1.819	4
2950	IPI:IPI00453769.2	Cops7b COP9 signalosome complex subunit 7b	2.08	6.439	1
2951	IPI:IPI00224653.5	Sec11c Signal peptidase complex catalytic subunit SEC11C	2.08	10.42	1
2952	IPI:IPI00133403.1	Ndub3 NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 3	2.08	10.58	1
2953	IPI:IPI00118718.1	Pcbp4 Poly(rC)-binding protein 4	2.08	14.14	6
2954	IPI:IPI00262198.6	Mcart1 Mitochondrial carrier triple repeat 1	2.08	9.223	1
2955	IPI:IPI00116713.2	Glmn Glomulin	2.08	1.678	1
2956	IPI:IPI00719890.2	Nfkb1 nuclear factor NF-kappa-B p105 subunit	2.08	0.7209	2
2957	IPI:IPI00468360.3	Wdr65 WD repeat-containing protein 65	2.08	0.4804	1
2958	IPI:IPI00406721.1	Trim2 Putative uncharacterized protein	2.08	7.527	2
2959	IPI:IPI00658782.4	Gucy1a2;LOC100044212 guanylate cyclase 1, soluble, alpha 2	2.08	1.918	2
2960	IPI:IPI00229605.2	Cds1 Phosphatidate cytidyltransferase 1	2.08	4.555	2
2961	IPI:IPI00314829.5	Nln Neurolysin, mitochondrial	2.08	3.409	2
2962	IPI:IPI00894746.1	Rcn3 Uncharacterized protein	2.08	11.31	2
2963	IPI:IPI00923688.1	Fhdc1 FH2 domain-containing protein 1	2.08	0.7833	1
2964	IPI:IPI00223861.3	Paox Isoform 1 of Peroxisomal N(1)-acetyl-spermine/spermidine oxidase	2.08	3.175	1
2965	IPI:IPI00606879.2	Sfrp1 secreted frizzled-related protein 1 precursor	2.08	5.096	1
2966	IPI:IPI00112639.3	Ric8 Synembryn-A	2.08	3.585	1
2967	IPI:IPI00345822.4	Gucy2f Retinal guanylyl cyclase 2	2.08	6.137	7
2968	IPI:IPI00850617.3	Gm12612 Putative uncharacterized protein (Fragment)	2.08	7.091	3
2969	IPI:IPI00469577.2	Lrrc1 Isoform 1 of Leucine-rich repeat-containing protein 1	2.08	2.481	1
2970	IPI:IPI00337992.1	Epha4 ephrin type-A receptor 4 precursor	2.08	2.13	1
2971	IPI:IPI00133732.2	Kcna3 Potassium voltage-gated channel subfamily A member 3	2.08	2.841	1
2972	IPI:IPI00928534.1	Kifc3 kinesin-like protein KIFC3 isoform b	2.08	2.314	1
2973	IPI:IPI00849768.1	Gm4363 similar to HSPC016	2.07	23.44	2
2974	IPI:IPI00458723.2	Ccdc124 Coiled-coil domain-containing protein 124	2.07	12.9	2
2975	IPI:IPI00654090.2	Gyk Glycerol kinase	2.07	2.355	1
2976	IPI:IPI00785394.1	Acap2 Isoform 2 of Arf-GAP with coiled-coil, ANK repeat and PH domain-containing protein 2	2.07	1.33	1
2977	IPI:IPI00221616.5	Arf6 ADP-ribosylation factor 6	2.07	6.286	1

2978	IPI:IPI00116228.1	Ppif Peptidyl-prolyl cis-trans isomerase F, mitochondrial	2.07	17.96	7
2979	IPI:IPI00313539.4	Scai Isoform 1 of Protein SCAI	2.07	1.98	1
2980	IPI:IPI00121351.1	Nxn1;LOC100047468 Nucleoredoxin-like protein 1	2.07	5.069	1
2981	IPI:IPI00116760.1	Rab24 Ras-related protein Rab-24	2.07	7.389	1
2982	IPI:IPI00130322.5	Ndufa7 NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 7	2.07	20.35	2
2983	IPI:IPI00344681.2	Pls1 Plastin-1	2.07	5.238	2
2984	IPI:IPI00457499.5	Gcn1l1 GCN1 general control of amino-acid synthesis 1-like 1	2.07	0.936	2
2985	IPI:IPI00677034.1	4930451C15Rik Isoform 3 of Leucine-rich repeat-containing protein LOC400891 homolog	2.07	2.581	1
2986	IPI:IPI00649698.2	Gpx3 Glutathione peroxidase	2.07	8.543	1
2987	IPI:IPI00330679.2	Ddrk1 DDRGK domain-containing protein 1	2.07	5.397	1
2988	IPI:IPI00880403.1	Tmem30a Uncharacterized protein	2.07	5.183	1
2989	IPI:IPI00228045.1	Camk2g Isoform 3 of Calcium/calmodulin-dependent protein kinase type II subunit gamma	2.07	22.63	12
2990	IPI:IPI00457543.3	Ppp2r5c Isoform 4 of Serine/threonine-protein phosphatase 2A 56 kDa regulatory subunit gamma isoform	2.07	5.847	2
2991	IPI:IPI00403079.4	Cd47 Isoform 1 of Leukocyte surface antigen CD47	2.07	6.601	3
2992	IPI:IPI00970165.1	Arhgap23 160 kDa protein	2.07	0.8197	2
2993	IPI:IPI00309724.6	Unc45a Protein unc-45 homolog A	2.07	2.119	2
2994	IPI:IPI00944744.1	Cog2 Conserved oligomeric Golgi complex subunit 2	2.07	2.189	1
2995	IPI:IPI00338717.3	Csde1 MKIAA0885 protein (Fragment)	2.07	2.676	3
2996	IPI:IPI00875249.1	Tnnt3 Troponin T fast skeletal muscle isoform (Fragment)	2.07	5.161	2
2997	IPI:IPI00754249.1	Dstyk Isoform 3 of Dual serine/threonine and tyrosine protein kinase	2.07	1.525	1
2998	IPI:IPI00850259.2	Gm14176 similar to Chain A, Crystal Structure Of Human Rangap1-Ubc9	2.07	6.962	2
2999	IPI:IPI00750151.1	Clip2 MKIAA0291 protein (Fragment)	2.06	2.719	2
3000	IPI:IPI00118420.3	Stra6 Stimulated by retinoic acid gene 6 protein	2.06	3.284	3
3001	IPI:IPI00120023.1	Nebi Putative uncharacterized protein	2.06	14.44	3
3002	IPI:IPI00321407.6	Cul4a Cullin-4A	2.06	1.449	2
3003	IPI:IPI00319956.1	Impact Protein IMPACT	2.06	7.862	1
3004	IPI:IPI00331076.4	Slk Isoform 1 of STE20-like serine/threonine-protein kinase	2.06	1.946	2
3005	IPI:IPI00410796.3	Itfg3 Protein ITFG3	2.06	5.225	2
3006	IPI:IPI00828395.2	1810014F10Rik Isoform 1 of Protein fucU homolog	2.06	25.49	2
3007	IPI:IPI00882011.1	Gria4 glutamate receptor 4 isoform 3 precursor	2.06	3.002	1
3008	IPI:IPI00474373.1	Sqstm1 Isoform 2 of Sequestosome-1	2.06	4.455	1
3009	IPI:IPI00136293.1	5033414D02Rik Transmembrane protein C9orf46	2.06	6.803	1

		homolog			
3010	IPI:IPI00222057.1	Neo1 Isoform 5 of Neogenin	2.06	1.181	1
3011	IPI:IPI00856171.1	Bud31 Uncharacterized protein	2.06	20.83	2
3012	IPI:IPI00133349.1	Carhsp1 Calcium-regulated heat stable protein 1	2.06	10.81	1
3013	IPI:IPI00135085.4	Hebp1 Heme-binding protein 1	2.06	8.421	1
3014	IPI:IPI00118575.1	Ubqln4 Ubiquilin-4	2.06	10.74	4
3015	IPI:IPI00221569.1	Zadh2 Zinc-binding alcohol dehydrogenase domain-containing protein 2	2.06	3.183	1
3016	IPI:IPI00944111.1	Atp2a3 sarcoplasmic/endoplasmic reticulum calcium ATPase 3 isoform c	2.06	6.628	8
3017	IPI:IPI00471268.1	Kirrel Isoform 2 of Kin of IRRE-like protein 1	2.06	2.839	1
3018	IPI:IPI00129727.1	Pcdhga1 Protocadherin gamma A1	2.06	1.504	1
3019	IPI:IPI00674263.3	Rap1gap Rap1 GTPase-activating protein	2.06	2.467	1
3020	IPI:IPI00775975.1	Cdh13 Putative uncharacterized protein	2.06	2.661	2
3021	IPI:IPI00464014.1	Gm5771 trypsinogen 12	2.06	27.76	22
3022	IPI:IPI00121100.4	Wwc2 Protein WWC2	2.06	2.696	3
3023	IPI:IPI00313968.8	Setd3 Isoform 1 of SET domain-containing protein 3	2.06	3.704	3
3024	IPI:IPI00121225.1	Eml3 Echinoderm microtubule-associated protein-like 3	2.06	3.233	2
3025	IPI:IPI00420511.5	Wdr90 WD repeat-containing protein 90	2.06	0.3171	1
3026	IPI:IPI00607069.1	Gm10257 hypothetical protein isoform 1	2.06	11.76	2
3027	IPI:IPI00471277.1	Tcerg1 Isoform 1 of Transcription elongation regulator 1	2.06	2.727	2
3028	IPI:IPI00128201.1	Spryd4 SPRY domain-containing protein 4	2.06	11.59	1
3029	IPI:IPI00775870.1	Pqbp1 Polyglutamine binding protein 1	2.06	10	1
3030	IPI:IPI00118158.1	Msh2 DNA mismatch repair protein Msh2	2.06	1.497	1
3031	IPI:IPI00857092.1	Slc4a4 electrogenic sodium bicarbonate cotransporter 1 isoform b	2.06	1.554	1
3032	IPI:IPI00648641.1	Bbs7 Bardet-Biedl syndrome 7	2.06	2.526	1
3033	IPI:IPI00620040.3	Ppm1h Isoform 1 of Protein phosphatase 1H	2.06	3.509	1
3034	IPI:IPI00123756.1	Gdap1l1 Ganglioside-induced differentiation-associated protein 1-like 1	2.06	3.542	1
3035	IPI:IPI00776035.1	Atp2b3 ATPase, Ca ⁺⁺ transporting, plasma membrane 3	2.05	8.269	9
3036	IPI:IPI00453837.2	Kdm1a Lysine-specific histone demethylase 1A	2.05	1.172	1
3037	IPI:IPI00311375.6	Sgsm3 small G protein signaling modulator 3	2.05	0.7895	1
3038	IPI:IPI00124051.1	Mpp5 MAGUK p55 subfamily member 5	2.05	3.704	1
3039	IPI:IPI00343627.3	Ccdc61 Coiled-coil domain-containing protein 61	2.05	1.174	1
3040	IPI:IPI00755120.2	Rrbp1 ribosome-binding protein 1 isoform a	2.05	1.639	2
3041	IPI:IPI00345834.2	Rragb Ras-related GTP-binding protein B	2.05	2.674	1
3042	IPI:IPI00410951.2	Serpina7 thyroxine-binding globulin precursor	2.05	2.347	1
3043	IPI:IPI00459468.2	Wrnip1 Isoform 1 of ATPase WRNIP1	2.05	2.121	1

3044	IPI:IPI00115089.2	Entpd2 Isoform Long of Ectonucleoside triphosphate diphosphohydrolase 2	2.05	2.222	1
3045	IPI:IPI00466200.3	Fundc2 FUN14 domain-containing protein 2	2.05	7.285	1
3046	IPI:IPI00753284.3	Naa50 Isoform 2 of N-alpha-acetyltransferase 50, NatE catalytic subunit	2.05	7.143	1
3047	IPI:IPI00133690.2	Tsta3 GDP-L-fucose synthase	2.05	3.738	1
3048	IPI:IPI00313884.1	Podxl Podocalyxin	2.05	2.151	1
3049	IPI:IPI00125681.4	Pigs GPI transamidase component PIG-S	2.05	3.784	1
3050	IPI:IPI00416125.3	Fam120c constitutive coactivator of PPAR-gamma-like protein 2	2.05	2.016	2
3051	IPI:IPI00311344.3	Cald1 89 kDa protein	2.05	3.771	2
3052	IPI:IPI00648460.3	Fkbp15 FK506 binding protein 15	2.05	2.381	1
3053	IPI:IPI00169546.1	Gmds GDP-mannose 4,6 dehydratase	2.05	2.151	1
3054	IPI:IPI00267489.1	Gulo Putative uncharacterized protein	2.05	4.773	2
3055	IPI:IPI00845596.1	Mlt4 Isoform 3 of Afadin	2.05	0.8242	1
3056	IPI:IPI00650038.2	Sort1 Isoform 2 of Sortilin	2.05	2.681	1
3057	IPI:IPI00411116.4	Ube2d3 Ubiquitin-conjugating enzyme E2 D3	2.05	12.24	1
3058	IPI:IPI00127376.1	Wdr54 WD repeat-containing protein 54	2.05	4.192	1
3059	IPI:IPI00129633.1	Slc16a8 Monocarboxylate transporter 3	2.05	6.911	2
3060	IPI:IPI00320484.4	Kifap3 Isoform KAP3A of Kinesin-associated protein 3	2.05	3.279	2
3061	IPI:IPI00124047.1	Cul1 Cullin-1	2.05	2.706	2
3062	IPI:IPI00276222.1	Fermt2 Fermitin family homolog 2	2.05	2.206	1
3063	IPI:IPI00226726.1	Pcyox1l Prenylcysteine oxidase-like	2.05	2.828	1
3064	IPI:IPI00956996.1	Myof Uncharacterized protein	2.05	0.7914	1
3065	IPI:IPI00651846.1	Smarcc2 SWI/SNF complex subunit SMARCC2 isoform 2	2.05	2.832	3
3066	IPI:IPI00223863.2	Cog5 Conserved oligomeric Golgi complex subunit 5	2.05	1.809	1
3067	IPI:IPI00122396.1	Smpd3 Sphingomyelin phosphodiesterase 3	2.05	3.664	1
3068	IPI:IPI00117829.1	Cav1 Isoform Alpha of Caveolin-1	2.05	11.8	1
3069	IPI:IPI00894813.1	Mfn2 Mitofusin 2	2.05	2.314	1
3070	IPI:IPI00124499.2	Krt79 Keratin, type II cytoskeletal 79	2.04	3.955	5
3071	IPI:IPI00875877.1	Cd47 Uncharacterized protein	2.04	6.173	3
3072	IPI:IPI00113232.3	Lyar Cell growth-regulating nucleolar protein	2.04	5.155	2
3073	IPI:IPI00662028.1	Slc4a4 Isoform 2 of Electrogenic sodium bicarbonate cotransporter 1	2.04	2.512	2
3074	IPI:IPI00117981.1	Actl6b Actin-like protein 6B	2.04	3.052	1
3075	IPI:IPI00117771.1	Ddx50 ATP-dependent RNA helicase DDX50	2.04	3.678	2
3076	IPI:IPI00918655.1	Stxbp5 Uncharacterized protein	2.04	2.093	1
3077	IPI:IPI00880956.1	Anapc7 Uncharacterized protein	2.04	1.988	1
3078	IPI:IPI00116601.1	Mab21l1 Protein mab-21-like 1	2.04	4.735	1
3079	IPI:IPI00108147.1	Rock1 Isoform 1 of Rho-associated protein kinase	2.04	1.034	1

		1			
3080	IPI:IPI00656165.1	Ufd1l Ubiquitin fusion degradation protein 1 homolog	2.04	3.257	1
3081	IPI:IPI00416541.1	Gatc GatC-like protein	2.04	16.77	1
3082	IPI:IPI00416303.1	Npepl1 Probable aminopeptidase NPEPL1	2.04	2.863	2
3083	IPI:IPI00130475.1	Ttc1 Tetratricopeptide repeat protein 1	2.04	7.534	2
3084	IPI:IPI00133119.1	Rer1 Protein RER1	2.04	4.082	1
3085	IPI:IPI00848612.1	LOC100044882 similar to oxysterol binding protein 2 isoform 2	2.04	5.721	4
3086	IPI:IPI00606097.1	Tmprss13 transmembrane protease, serine 13	2.04	1.46	7
3087	IPI:IPI00226563.4	Ttyh3 Isoform 1 of Protein tweety homolog 3	2.04	3.817	2
3088	IPI:IPI00890076.1	Maoa amine oxidase [flavin-containing] A	2.04	5.133	2
3089	IPI:IPI00120684.2	Bax Apoptosis regulator BAX	2.04	9.375	2
3090	IPI:IPI00322302.1	Ttc15 Tetratricopeptide repeat protein 15	2.04	2.384	1
3091	IPI:IPI00110956.6	Chmp6 Charged multivesicular body protein 6	2.04	6.5	1
3092	IPI:IPI00462461.2	Dpp9 Isoform 1 of Dipeptidyl peptidase 9	2.04	2.436	1
3093	IPI:IPI00895990.1	Stk38l Serine/threonine kinase 38 like	2.04	3.017	1
3094	IPI:IPI00123487.3	Gde1 Glycerophosphodiester phosphodiesterase 1	2.04	5.438	2
3095	IPI:IPI00409255.2	D030016E14Rik Isoform 1 of UPF0636 protein C4orf41 homolog	2.04	2.03	3
3096	IPI:IPI00623214.2	Pitpnb Pitpnb protein	2.04	7.353	2
3097	IPI:IPI00408582.2	Kif3a Putative uncharacterized protein	2.04	3.152	3
3098	IPI:IPI00153986.2	Gtf2f1 General transcription factor IIF subunit 1	2.04	3.15	1
3099	IPI:IPI00272690.2	Ace Isoform Somatic of Angiotensin-converting enzyme	2.04	1.372	1
3100	IPI:IPI00322869.3	Abce1 ATP-binding cassette sub-family E member 1	2.04	2.504	1
3101	IPI:IPI00128588.1	Acot11 Acyl-coenzyme A thioesterase 11	2.04	1.684	1
3102	IPI:IPI00753529.1	LOC100047161 similar to RAS-homolog enriched in brain	2.04	7.373	2
3103	IPI:IPI00608093.3	Tmem201 Putative uncharacterized protein	2.04	2.153	1
3104	IPI:IPI00114594.1	Rras Ras-related protein R-Ras	2.04	12.84	2
3105	IPI:IPI00753037.3	Dnm1 Isoform 5 of Dynamin-1	2.04	49.47	51
3106	IPI:IPI00132424.4	Xrcc6 X-ray repair cross-complementing protein 6	2.04	1.645	1
3107	IPI:IPI00346834.1	Krt76 Keratin, type II cytoskeletal 2 oral	2.04	6.397	5
3108	IPI:IPI00461290.1	Osbpl8 oxysterol-binding protein-like protein 8 isoform a	2.04	2.25	2
3109	IPI:IPI00317684.8	1810074P20Rik Isoform 1 of E3 UFM1-protein ligase 1	2.04	2.018	1
3110	IPI:IPI00115701.1	Usp4 Ubiquitin carboxyl-terminal hydrolase 4	2.04	1.247	1
3111	IPI:IPI00341302.5	2310030N02Rik UPF0551 protein C8orf38 homolog, mitochondrial	2.04	4.505	1
3112	IPI:IPI00875068.1	Tecr Gpsn2 protein	2.04	4.696	1

3113	IPI:IPI00130885.1	Rbmxrt Heterogeneous nuclear ribonucleoprotein G	2.04	9.536	5
3114	IPI:IPI00133917.1	Phc2 Isoform 1 of Polyhomeotic-like protein 2	2.04	1.882	1
3115	IPI:IPI00329962.3	Fuk L-fucose kinase	2.04	0.8257	1
3116	IPI:IPI00662793.4	Asph 78 kDa protein	2.04	3.473	2
3117	IPI:IPI00221798.1	Rcn3 Reticulocalbin-3	2.04	4.878	1
3118	IPI:IPI00463175.1	Commd1 COMM domain-containing protein 1	2.04	11.17	1
3119	IPI:IPI00108775.3	Nub1 NEDD8 ultimate buster 1	2.04	3.42	1
3120	IPI:IPI00119808.1	Clpx ATP-dependent Clp protease ATP-binding subunit clpX-like, mitochondrial	2.04	3.785	1
3121	IPI:IPI00944164.1	Nt5c2 cytosolic purine 5'-nucleotidase isoform 1	2.04	2.901	1
3122	IPI:IPI00132685.1	Bet1 BET1 homolog	2.04	15.25	1
3123	IPI:IPI00649105.1	Ict1 Immature colon carcinoma transcript 1, isoform CRA_c	2.04	7.527	1
3124	IPI:IPI00339747.1	6030458C11Rik Isoform 1 of UPF0489 protein C5orf22 homolog	2.03	3.167	2
3125	IPI:IPI00761596.1	Abr Isoform 3 of Active breakpoint cluster region-related protein	2.03	2.34	2
3126	IPI:IPI00968369.1	Eif2s3y Putative uncharacterized protein	2.03	7.003	1
3127	IPI:IPI00121834.1	2010305A19Rik Hcp beta-lactamase-like protein C1orf163 homolog	2.03	4.329	1
3128	IPI:IPI00403618.4	6330407J23Rik Uncharacterized protein C6orf174 homolog	2.03	1.164	1
3129	IPI:IPI00622896.2	Ski Sloan-Kettering viral oncogene homolog	2.03	1.778	1
3130	IPI:IPI00659713.1	Cwc27 Peptidyl-prolyl cis-trans isomerase CWC27 homolog	2.03	2.559	1
3131	IPI:IPI00463195.2	Atg7 Ubiquitin-like modifier-activating enzyme ATG7	2.03	3.009	1
3132	IPI:IPI00652450.2	Llg2 Lethal(2) giant larvae protein homolog 2	2.03	1.266	1
3133	IPI:IPI00649060.1	Akap2 Protein	2.03	1.583	1
3134	IPI:IPI00816883.1	LOC100044767 hypothetical protein isoform 1	2.03	1.849	1
3135	IPI:IPI00136655.1	Gcat 2-amino-3-ketobutyrate coenzyme A ligase, mitochondrial	2.03	4.327	1
3136	IPI:IPI00751503.3	Gm7262 similar to MrgB2 G protein-coupled receptor	2.03	5.231	1
3137	IPI:IPI00308149.1	Ccny;LOC100044842 Isoform 1 of Cyclin-Y	2.03	4.399	1
3138	IPI:IPI00317604.1	Sec23b Protein transport protein Sec23B	2.03	5.346	3
3139	IPI:IPI00409345.3	Cryl1 Lambda-crystallin homolog	2.03	8.777	2
3140	IPI:IPI00121198.2	Gtf2a1 Transcription initiation factor IIA subunit 1	2.03	7.407	3
3141	IPI:IPI00115626.1	Ppap2b Lipid phosphate phosphohydrolase 3	2.03	3.526	1
3142	IPI:IPI00274656.6	Pmpcb Mitochondrial-processing peptidase subunit beta	2.03	5.726	3
3143	IPI:IPI00122466.3	BC017643 Uncharacterized protein C17orf62 homolog	2.03	5.348	1

3144	IPI:IPI00831418.1	Sdhc Uncharacterized protein	2.03	5.926	1
3145	IPI:IPI00319131.4	Pex19 Isoform 1 of Peroxisomal biogenesis factor 19	2.03	5.017	1
3146	IPI:IPI00224075.1	Cpne1 Copine-1	2.03	2.985	1
3147	IPI:IPI00127464.1	Atp8a2 Probable phospholipid-transporting ATPase IB	2.03	1.916	3
3148	IPI:IPI00131488.3	Pofut1 GDP-fucose protein O-fucosyltransferase 1	2.03	4.071	1
3149	IPI:IPI00649603.1	Ate1 Arginyl-tRNA--protein transferase 1	2.03	3.34	3
3150	IPI:IPI00468996.2	Wasl Neural Wiskott-Aldrich syndrome protein	2.03	5.788	1
3151	IPI:IPI00331631.1	Stim1;LOC100045432 Stromal interaction molecule 1, isoform CRA_a	2.03	1.314	1
3152	IPI:IPI00857684.1	Yif1b Isoform 2 of Protein YIF1B	2.03	8.117	2
3153	IPI:IPI00283156.1	Gm6570 Uncharacterized protein	2.03	13.91	1
3154	IPI:IPI00229487.1	Cbfb Isoform 2 of Core-binding factor subunit beta	2.03	8.791	1
3155	IPI:IPI00330933.6	Apip Probable methylthioribulose-1-phosphate dehydratase	2.03	3.32	1
3156	IPI:IPI00223783.2	Plin1 Isoform 1 of Perilipin-1	2.03	2.901	1
3157	IPI:IPI00277930.6	Capg Putative uncharacterized protein	2.03	3.714	1
3158	IPI:IPI00312507.2	Opa3 Optic atrophy 3 protein homolog	2.03	6.704	1
3159	IPI:IPI00169667.1	Cnot3 CCR4-NOT transcription complex subunit 3	2.03	1.997	1
3160	IPI:IPI00929839.1	Actr10 ARP10 actin-related protein 10	2.03	11.03	4
3161	IPI:IPI00929847.1	Fkbp15 Isoform A of FK506-binding protein 15	2.03	1.974	2
3162	IPI:IPI00137094.1	Clvs1 Isoform 1 of Clavesin-1	2.03	5.085	1
3163	IPI:IPI00229726.2	Tarsl2 Probable threonyl-tRNA synthetase 2, cytoplasmic	2.03	1.139	1
3164	IPI:IPI00116302.3	Eif2s2 Eukaryotic translation initiation factor 2 subunit 2	2.03	4.532	1
3165	IPI:IPI00480321.2	Grf1 Glucocorticoid receptor DNA-binding factor 1	2.03	0.6004	1
3166	IPI:IPI00129774.1	Kcna2 Potassium voltage-gated channel subfamily A member 2	2.03	3.006	1
3167	IPI:IPI00113731.2	Degs1 Sphingolipid delta(4)-desaturase DES1	2.03	5.573	1
3168	IPI:IPI00127406.1	Plod3 Procollagen-lysine,2-oxoglutarate 5-dioxygenase 3	2.03	1.484	1
3169	IPI:IPI00720145.1	Slco3a1 Isoform 2 of Solute carrier organic anion transporter family member 3A1	2.03	1.012	1
3170	IPI:IPI00120709.1	Mrps34 28S ribosomal protein S34, mitochondrial	2.03	4.587	1
3171	IPI:IPI00467124.2	Coq3 Hexaprenyldihydroxybenzoate methyltransferase, mitochondrial	2.03	4.054	1
3172	IPI:IPI00867926.1	Vmn2r65 vomeronasal 2, receptor 65	2.03	1.42	3
3173	IPI:IPI00229931.1	Tbce Tubulin-specific chaperone E	2.03	2.29	1
3174	IPI:IPI00845595.1	Dnm1 Isoform 2 of Dynamin-1	2.03	48.9	45
3175	IPI:IPI00336889.4	Atp2a3 Isoform SERCA3B of Sarcoplasmic/endoplasmic reticulum calcium ATPase 3	2.03	6.551	8

3176	IPI:IPI00338887.3	Prpf40a Isoform 2 of Pre-mRNA-processing factor 40 homolog A	2.03	3.622	2
3177	IPI:IPI00624883.2	Atp2c1;LOC100045884 Putative uncharacterized protein	2.03	2.416	1
3178	IPI:IPI00554838.1	Atg16l1 Isoform 5 of Autophagy-related protein 16-1	2.03	1.983	1
3179	IPI:IPI00330873.1	LOC100047670;Rmnd5a Protein RMD5 homolog A	2.03	3.069	1
3180	IPI:IPI00623830.2	BC006779 BC006779 protein	2.03	0.4476	1
3181	IPI:IPI00761433.2	Rims1 143 kDa protein	2.03	1.707	1
3182	IPI:IPI00331293.3	Dnm1 Isoform 4 of Dynamin-1	2.02	45.72	61
3183	IPI:IPI00671957.2	Gls glutaminase isoform 2	2.02	30.51	16
3184	IPI:IPI00123878.4	Ddx39 Isoform 1 of ATP-dependent RNA helicase DDX39	2.02	18.97	17
3185	IPI:IPI00757755.1	Prkcb 77 kDa protein	2.02	4.322	4
3186	IPI:IPI00336313.2	Ppp1r9a Protein phosphatase 1, regulatory (Inhibitor) subunit 9A, isoform CRA_c	2.02	2.466	2
3187	IPI:IPI00153798.1	Hexim1 Protein HEXIM1	2.02	5.618	2
3188	IPI:IPI00467229.2	Faim2 Isoform 2 of Fas apoptotic inhibitory molecule 2	2.02	7.213	1
3189	IPI:IPI00266752.2	Cpne3 Copine-3	2.02	4.69	4
3190	IPI:IPI00221649.1	Nfkb1 Isoform 2 of Nuclear factor NF-kappa-B p105 subunit	2.02	0.8963	1
3191	IPI:IPI00110280.4	Ppil4 Peptidyl-prolyl cis-trans isomerase-like 4	2.02	4.878	1
3192	IPI:IPI00845541.1	Gpx3 glutathione peroxidase 3 isoform 1	2.02	6.855	2
3193	IPI:IPI00461860.3	Ctr9 Isoform 3 of RNA polymerase-associated protein CTR9 homolog	2.02	1.009	1
3194	IPI:IPI00229813.1	Prpf6 Isoform 2 of Pre-mRNA-processing factor 6	2.02	1.404	1
3195	IPI:IPI00170212.2	Cox16 Activin receptor-interacting protein 2a	2.02	7.843	1
3196	IPI:IPI00652516.2	Eml4 Isoform 1 of Echinoderm microtubule-associated protein-like 4	2.02	1.215	1
3197	IPI:IPI00894922.1	Phc2 Polyhomeotic-like 2	2.02	1.882	1
3198	IPI:IPI00221845.1	Atcay Caytaxin	2.02	3.226	1
3199	IPI:IPI00655222.1	Smap2 Isoform 1 of Stromal membrane-associated protein 2	2.02	6.776	2
3200	IPI:IPI00117986.3	Slc12a9 Solute carrier family 12 member 9	2.02	1.751	1
3201	IPI:IPI00970487.1	Ipo9 Uncharacterized protein	2.02	32.73	1
3202	IPI:IPI00116668.2	Ilk Integrin-linked protein kinase	2.02	2.212	1
3203	IPI:IPI00355669.2	Rdh8 Uncharacterized protein	2.02	4.101	1
3204	IPI:IPI00309768.7	Pdlim1 PDZ and LIM domain protein 1	2.02	4.587	1
3205	IPI:IPI00230721.5	Crabp1 Cellular retinoic acid-binding protein 1	2.02	7.299	1
3206	IPI:IPI00133193.3	Gadd45gip1 Growth arrest and DNA damage-inducible proteins-interacting protein 1	2.02	4.505	1
3207	IPI:IPI00133061.3	Rbm7 RNA-binding protein 7	2.02	6.792	1
3208	IPI:IPI00120346.3	Rab27b Ras-related protein Rab-27B	2.02	10.09	2

3209	IPI:IPI00109437.1	Pir Pirin	2.02	4.743	1
3210	IPI:IPI00653723.1	Poldip3 Putative uncharacterized protein	2.02	5.882	2
3211	IPI:IPI00457544.1	Icmt protein-S-isoprenylcysteine O-methyltransferase	2.02	3.521	1
3212	IPI:IPI00623531.4	Dst Isoform 6 of Bullous pemphigoid antigen 1	2.02	1.19	3
3213	IPI:IPI00222043.2	Itp2 Isoform 2 of Inositol 1,4,5-trisphosphate receptor type 2	2.02	1.249	1
3214	IPI:IPI00858230.1	Comt1 Uncharacterized protein	2.02	14.62	3
3215	IPI:IPI00124416.1	Cabp5;LOC100046558 Calcium-binding protein 5	2.02	7.514	1
3216	IPI:IPI00122075.1	Mavs Mitochondrial antiviral-signaling protein	2.02	7.356	2
3217	IPI:IPI00230601.1	Fxr1 Isoform F of Fragile X mental retardation syndrome-related protein 1	2.02	2.778	1
3218	IPI:IPI00225209.1	Ilvbl Isoform 1 of Acetolactate synthase-like protein	2.02	3.481	1
3219	IPI:IPI00461500.1	Rpl29-ps2 Uncharacterized protein	2.02	5	1
3220	IPI:IPI00268927.1	Nudcd3 Isoform 1 of NudC domain-containing protein 3	2.02	4.132	1
3221	IPI:IPI00130627.1	Lgmn Legumain	2.02	3.908	1
3222	IPI:IPI00347275.3	Vps24 Charged multivesicular body protein 3	2.02	5.357	1
3223	IPI:IPI00857736.1	Safb2 Scaffold attachment factor B2	2.02	5.853	4
3224	IPI:IPI00753917.2	Fnc Uncharacterized protein	2.02	1.294	4
3225	IPI:IPI00648065.1	Bbs7 Bardet-Biedl syndrome 7, isoform CRA_e	2.02	2.378	1
3226	IPI:IPI00381303.5	Man2b1 Lysosomal alpha-mannosidase	2.02	1.382	1
3227	IPI:IPI00421240.5	Spag17-ps Sperm-associated antigen 17	2.02	0.4138	1
3228	IPI:IPI00621842.6	Enah protein enabled homolog isoform 1	2.02	1.244	1
3229	IPI:IPI00381019.1	Smarcc2 Isoform 2 of SWI/SNF complex subunit SMARCC2	2.02	1.365	1
3230	IPI:IPI00116681.3	Chkb Choline/ethanolamine kinase	2.02	4.822	1
3231	IPI:IPI00329871.1	Zfyve1 Zinc finger FYVE domain-containing protein 1	2.02	1.931	1
3232	IPI:IPI00127364.1	Epn3 Epsin-3	2.02	1.572	1
3233	IPI:IPI00648479.2	Ccdc47 Isoform 2 of Coiled-coil domain-containing protein 47	2.02	2.096	1
3234	IPI:IPI00624876.3	Vasp Vasodilator-stimulated phosphoprotein	2.02	2.667	1
3235	IPI:IPI00857856.1	Nosip Uncharacterized protein	2.02	4.977	1
3236	IPI:IPI00798442.1	6530401N04Rik Isoform 2 of Probable D-tyrosyl-tRNA(Tyr) deacylase 2	2.02	13.25	1
3237	IPI:IPI00114936.1	Atg5 Autophagy protein 5	2.02	6.909	1
3238	IPI:IPI00753102.2	Gm9034 similar to Glyceraldehyde-3-phosphate dehydrogenase	2.02	49.25	31
3239	IPI:IPI00666471.2	LOC630527 similar to eIF-4E	2.02	9.677	2
3240	IPI:IPI00223800.5	Pcbd1 Pterin-4-alpha-carbinolamine dehydratase	2.02	13.46	1
3241	IPI:IPI00165881.3	Pxn Isoform Beta of Paxillin	2.02	2.2	1
3242	IPI:IPI00122559.3	Ktn1 Isoform 1 of Kinectin	2.02	15.98	15

3243	IPI:IPI00408500.2	Purg Isoform 2 of Purine-rich element-binding protein gamma	2.02	9.538	3
3244	IPI:IPI00648298.2	Ptprf Protein tyrosine phosphatase, receptor type, F	2.02	1.379	2
3245	IPI:IPI00605518.1	LOC100048867 similar to Annexin A2	2.02	6.272	1
3246	IPI:IPI00830309.1	Naa10 N-acetyltransferase ARD1 homolog	2.02	4.545	1
3247	IPI:IPI00122227.1	Rnps1 RNA/DNA-binding protein	2.02	7.397	1
3248	IPI:IPI00137792.1	Smpd1 Sphingomyelin phosphodiesterase	2.02	1.754	1
3249	IPI:IPI00654397.1	Cox16 Putative uncharacterized protein	2.02	6.593	1
3250	IPI:IPI00816854.1	Cpeb3 Isoform 5 of Cytoplasmic polyadenylation element-binding protein 3	2.02	2.139	1
3251	IPI:IPI00378485.2	Atp1a4 Sodium/potassium-transporting ATPase subunit alpha-4	2.01	11.63	43
3252	IPI:IPI00467152.4	Gnai1 guanine nucleotide binding protein, alpha inhibiting 1	2.01	24.58	16
3253	IPI:IPI00109441.1	Smyd3 SET and MYND domain-containing protein 3	2.01	3.738	2
3254	IPI:IPI00275050.2	Dap3 28S ribosomal protein S29, mitochondrial isoform 2	2.01	6.061	3
3255	IPI:IPI00380299.2	Akap7 A-kinase anchor protein 7	2.01	3.503	2
3256	IPI:IPI00463493.1	Gbf1 Golgi-specific brefeldin A-resistance factor 1	2.01	0.8598	2
3257	IPI:IPI00114618.1	Lrsam1;4930555K19Rik E3 ubiquitin-protein ligase LRSAM1	2.01	2.476	2
3258	IPI:IPI00845729.1	Acbd5 Isoform 2 of Acyl-CoA-binding domain-containing protein 5	2.01	4.661	2
3259	IPI:IPI00955120.1	Usp19 ubiquitin carboxyl-terminal hydrolase 19 isoform 5	2.01	2.232	2
3260	IPI:IPI00314204.5	Adck4 Uncharacterized aarF domain-containing protein kinase 4	2.01	2.064	1
3261	IPI:IPI00131084.3	Dync1i1 Isoform 1A of Cytoplasmic dynein 1 intermediate chain 1	2.01	4.777	2
3262	IPI:IPI00222838.3	Mipep Mitochondrial intermediate peptidase	2.01	3.506	2
3263	IPI:IPI00311591.3	Ube2z Ubiquitin-conjugating enzyme E2 Z	2.01	4.775	3
3264	IPI:IPI00515708.3	Ptpn2 Isoform PTPB of Tyrosine-protein phosphatase non-receptor type 2	2.01	3.448	1
3265	IPI:IPI00120571.3	Arfgap2 Isoform 1 of ADP-ribosylation factor GTPase-activating protein 2	2.01	2.885	1
3266	IPI:IPI00340815.3	Rbm15 RNA binding motif protein 15	2.01	2.391	1
3267	IPI:IPI00404052.3	Mpdz Isoform 2 of Multiple PDZ domain protein	2.01	1.384	2
3268	IPI:IPI00229353.1	Plch1 Isoform 5 of 1-phosphatidylinositol-4,5-bisphosphate phosphodiesterase eta-1	2.01	2.245	1
3269	IPI:IPI00153241.1	Vps37c Isoform 1 of Vacuolar protein sorting-associated protein 37C	2.01	6.25	2
3270	IPI:IPI00855162.2	4932431P20Rik;LOC634091 similar to hCG1785223	2.01	0.4523	2
3271	IPI:IPI00626909.1	Capn1 Calpain-1 catalytic subunit	2.01	2.525	1

3272	IPI:IPI00224294.2	Man2a2 N-glycan processing alpha-mannosidase IIx	2.01	1.476	1
3273	IPI:IPI00111014.1	Elovl4 Elongation of very long chain fatty acids protein 4	2.01	2.885	1
3274	IPI:IPI00515319.2	Ptgfrn prostaglandin F2 receptor negative regulator precursor	2.01	1.593	1
3275	IPI:IPI00850638.1	Gm3724 similar to GEF-2	2.01	11.11	1
3276	IPI:IPI00352986.2	Strn Striatin	2.01	2.179	1
3277	IPI:IPI00666885.4	Dnajc13 Receptor mediated endocytosis-8	2.01	1.157	1
3278	IPI:IPI00229810.4	Plekha5 phosphoinositol 3-phosphate-binding protein-2	2.01	1.103	1
3279	IPI:IPI00623737.2	Acot11 Acyl-CoA thioesterase 11	2.01	1.629	1
3280	IPI:IPI00653791.2	Tbc1d22a Isoform 2 of TBC1 domain family member 22A	2.01	1.533	1
3281	IPI:IPI00411109.4	Caskin1 Isoform 1 of Caskin-1	2.01	1.048	1
3282	IPI:IPI00381148.1	Nckap5l Nck-associated protein 5-like	2.01	0.6047	1
3283	IPI:IPI00121364.2	Aspscr1 Isoform 1 of Tether containing UBX domain for GLUT4	2.01	2.545	1
3284	IPI:IPI00624984.1	Gm9923 similar to Hbs1l protein	2.01	2.941	1
3285	IPI:IPI00830866.1	Drap1 Uncharacterized protein	2.01	6.79	1
3286	IPI:IPI00757072.2	Gm2058 predicted gene 2058	2.01	8.197	1
3287	IPI:IPI00132487.1	Mrp63 Ribosomal protein 63, mitochondrial	2.01	12.75	1
3288	IPI:IPI00111420.1	Yipf5 Protein YIPF5	2.01	3.502	1
3289	IPI:IPI00134652.3	Col7a1 Collagen alpha-1(VII) chain	2.01	0.3057	1
3290	IPI:IPI00462519.1	Katnal2 Isoform 2 of Katanin p60 ATPase-containing subunit A-like 2	2.01	5.069	1
3291	IPI:IPI00970649.1	A1837181 basophilic leukemia expressed protein BLES03	2.01	8.389	2
3292	IPI:IPI00330729.4	Csnk1a1 Isoform 1 of Casein kinase I isoform alpha	2.01	3.561	1
3293	IPI:IPI00831119.1	Lypla1 Uncharacterized protein	2.01	5.612	1
3294	IPI:IPI00114401.1	Emd Emerin	2.01	5.294	1
3295	IPI:IPI00850715.1	Gm3386;LOC100047065 hypothetical protein isoform 2	2.01	14.29	1
3296	IPI:IPI00953773.1	Ssr4 translocon-associated protein subunit delta isoform 1 precursor	2.01	10.98	1
3297	IPI:IPI00227838.4	Gng12 Guanine nucleotide-binding protein G(I)/G(S)/G(O) subunit gamma-12	2.01	19.44	1
3298	IPI:IPI00132747.5	Hbxip hepatitis B virus X-interacting protein homolog	2.01	13.79	1
3299	IPI:IPI00113196.1	Cox7a1 Cytochrome c oxidase subunit 7A1, mitochondrial	2.01	16.25	1
3300	IPI:IPI00225389.1	Snap25 Isoform SNAP-25a of Synaptosomal-associated protein 25	2.01	61.65	27
3301	IPI:IPI00321860.1	Pdcl Phosducin-like protein	2.01	14.29	4
3302	IPI:IPI00170345.1	Cdc73 Parafibromin	2.01	3.766	1

3303	IPI:IPI00320303.1	Nup133 Nuclear pore complex protein Nup133	2.01	1.818	1
3304	IPI:IPI00869397.1	Fbxo7 F-box only protein 7	2.01	3.25	1
3305	IPI:IPI00322760.7	Prodh proline dehydrogenase, mitochondrial	2.01	3.005	1
3306	IPI:IPI00387392.4	Slc25a46 Solute carrier family 25 member 46	2.01	2.632	1
3307	IPI:IPI00457532.2	Ppil3 Isoform 1 of Peptidyl-prolyl cis-trans isomerase-like 3	2.01	16.15	2
3308	IPI:IPI00109131.1	AU022252 Uncharacterized protein C1orf50 homolog	2.01	8.04	1
3309	IPI:IPI00129907.7	Acbd3 Golgi resident protein GCP60	2.01	3.048	1
3310	IPI:IPI00120715.1	Tom20;Gm14494;LOC100044630 Mitochondrial import receptor subunit TOM20 homolog	2.01	8.966	1
3311	IPI:IPI00850073.1	Gm12013 similar to ribosomal protein L39	2.01	15.87	2
3312	IPI:IPI00395040.1	Kcmf1 Isoform 1 of E3 ubiquitin-protein ligase KCMF1	2.01	4.462	1
3313	IPI:IPI00128268.2	Dnajc9 DnaJ homolog subfamily C member 9	2.01	4.633	1
3314	IPI:IPI00408986.6	Lclat1 Lysocardiolipin acyltransferase 1	2.01	2.394	1
3315	IPI:IPI00755057.1	LOC677282 similar to Kcnj10 protein	2.01	3.977	2
3316	IPI:IPI00223444.1	Hnrnpc Isoform 3 of Heterogeneous nuclear ribonucleoproteins C1/C2	2.01	33.11	13
3317	IPI:IPI00749932.1	Gm12141 similar to Heat shock protein 1	2.01	11.47	10
3318	IPI:IPI00132397.1	Sar1b GTP-binding protein SAR1b	2.01	34.85	4
3319	IPI:IPI00138394.3	Atxn3 Ataxin-3	2.01	4.225	2
3320	IPI:IPI00930798.1	Smek1 serine/threonine-protein phosphatase 4 regulatory subunit 3A isoform 2	2.01	3.121	2
3321	IPI:IPI00649662.1	Ppih Peptidyl-prolyl cis-trans isomerase	2.01	17.72	2
3322	IPI:IPI00656317.2	Stxbp5 syntaxin-binding protein 5	2.01	2.061	2
3323	IPI:IPI00129395.1	Slc7a5 Large neutral amino acids transporter small subunit 1	2.01	2.734	1
3324	IPI:IPI00831145.1	Pdpk1 61 kDa protein	2.01	3.759	1
3325	IPI:IPI00129985.1	Cdr2 Cerebellar degeneration-related protein 2	2.01	3.077	1
3326	IPI:IPI00133648.2	Bccip BRCA2 and CDKN1A-interacting protein	2.01	7.278	1
3327	IPI:IPI00830724.1	Fndc1 fibronectin type III domain containing 1	2.01	0.4619	1
3328	IPI:IPI00970078.1	Osbp19 81 kDa protein	2.01	1.53	1
3329	IPI:IPI00109213.1	Slc8a1 Sodium/calcium exchanger 1	2.01	1.031	1
3330	IPI:IPI00109253.1	2900064A13Rik UPF0480 protein C15orf24 homolog	2.01	5.394	1
3331	IPI:IPI00943363.1	Dnajc17 dnaJ homolog subfamily C member 17	2.01	6.931	1
3332	IPI:IPI00753321.2	Bod1l biorientation of chromosomes in cell division 1-like	2.01	0.6596	1
3333	IPI:IPI00119930.2	Prkag1 5'-AMP-activated protein kinase subunit gamma-1	2.01	7.273	2
3334	IPI:IPI00337955.1	Polr2e DNA-directed RNA polymerases I, II, and III subunit RPABC1	2.01	8.095	1
3335	IPI:IPI00109070.1	Bbs2 Bardet-Biedl syndrome 2 protein homolog	2.01	1.942	2

3336	IPI:IPI00387249.1	Fam82b Regulator of microtubule dynamics protein 1	2.01	3.607	1
3337	IPI:IPI00132504.1	Mrps30 28S ribosomal protein S30, mitochondrial	2.01	4.751	1
3338	IPI:IPI00466640.2	Tmed5;LOC100046567 Transmembrane emp24 domain-containing protein 5	2.01	5.24	1
3339	IPI:IPI00762362.1	Rpl22l1 Isoform 2 of 60S ribosomal protein L22-like 1	2.01	19.83	1
3340	IPI:IPI00454042.2	Fam3c Protein FAM3C	2.01	8.37	1
3341	IPI:IPI00943999.1	Crb2 Crumbs homolog 2	2.01	1.092	1
3342	IPI:IPI00222845.2	Celf4 Isoform 7 of CUGBP Elav-like family member 4	2.01	4.908	1
3343	IPI:IPI00970519.1	Sgtb Uncharacterized protein	2.01	8.197	1
3344	IPI:IPI00404467.1	Cabp4 Putative uncharacterized protein (Fragment)	2.01	15.44	1
3345	IPI:IPI00877288.1	Pgcp Isoform 2 of Plasma glutamate carboxypeptidase	2.01	6.114	2
3346	IPI:IPI00113079.2	Mapkapk2 MAP kinase-activated protein kinase 2	2.01	4.404	1
3347	IPI:IPI00221528.1	Actbl2 Beta-actin-like protein 2	2.01	30.05	43
3348	IPI:IPI00347770.3	Gnat3 Guanine nucleotide-binding protein G(t) subunit alpha-3	2.01	22.6	14
3349	IPI:IPI00323442.8	Slc4a8 Isoform 1 of Electroneutral sodium bicarbonate exchanger 1	2.01	2.296	2
3350	IPI:IPI00350631.6	Cog3 conserved oligomeric Golgi complex subunit 3	2.01	1.449	1
3351	IPI:IPI00467555.2	Rabep1 rab GTPase-binding effector protein 1	2.01	1.856	1
3352	IPI:IPI00673345.1	LOC675032 similar to polymyositis scleroderma overlap syndrome (PM-SCL) antigen 1 a isoform 6	2.01	3.89	2
3353	IPI:IPI00750931.1	Zc3h4 Isoform 1 of Zinc finger CCCH domain-containing protein 4	2.01	1.227	1
3354	IPI:IPI00126796.3	Slc27a4 Long-chain fatty acid transport protein 4	2.01	2.799	1
3355	IPI:IPI00381328.6	LOC434624 similar to ferritin light chain 2	2.01	5.797	1
3356	IPI:IPI00845690.1	Ccbl2 Isoform 1 of Kynurenine--oxoglutarate transaminase 3	2.01	2.637	1
3357	IPI:IPI00113796.3	Inpp5k Inositol polyphosphate 5-phosphatase K	2.01	2.35	1
3358	IPI:IPI00129383.1	Mettl1 tRNA (guanine-N(7)-)-methyltransferase	2.01	2.612	1
3359	IPI:IPI00323177.2	Rars2 Probable arginyl-tRNA synthetase, mitochondrial	2.01	2.941	1
3360	IPI:IPI00828271.4	Dos Protein Dos	2.01	1.418	1
3361	IPI:IPI00112139.1	Ociad2 OCIA domain-containing protein 2	2.01	8.442	1
3362	IPI:IPI00890038.2	Syne1 Isoform 4 of Nesprin-1	2.01	0.2615	1
3363	IPI:IPI00775999.1	Dcun1d2 DCN1-like protein 2 isoform b	2.01	8.213	1
3364	IPI:IPI00881699.1	Cutc Uncharacterized protein	2.01	7.087	1
3365	IPI:IPI00661702.2	LOC641175 similar to Cdv3 protein	2.01	1.891	1
3366	IPI:IPI00874889.1	Mtx2 Metaxin 2	2.01	8.365	1

3367	IPI:IPI00275210.3	Lcn11 Lipocalin 11	2.01	7.865	1
3368	IPI:IPI00310239.4	Nccrp1 non-specific cytotoxic cell receptor protein 1 homolog	2.01	3.093	1
3369	IPI:IPI00121420.1	Hspb2 Isoform 1 of Heat shock protein beta-2	2.01	9.89	1
3370	IPI:IPI00122554.3	Cabc1 Isoform 1 of Chaperone activity of bc1 complex-like, mitochondrial	2.01	2.481	2
3371	IPI:IPI00474590.1	Bcl2l1 Bcl-x-gamma	2.01	4.255	1
3372	IPI:IPI00321386.2	Abhd6 Isoform 1 of Monoacylglycerol lipase ABHD6	2.01	4.464	1
3373	IPI:IPI00626928.1	Tmem65 Transmembrane protein 65	2.01	4.701	1
3374	IPI:IPI00137206.1	Actr10 Actin-related protein 10	2.01	6.475	2
3375	IPI:IPI00131463.3	Stk25 Serine/threonine-protein kinase 25	2.01	4.695	2
3376	IPI:IPI00137658.3	Krt24 Keratin, type I cytoskeletal 24	2.01	3.125	1
3377	IPI:IPI00222935.3	Itgb8 Integrin beta	2.01	2.216	1
3378	IPI:IPI00230416.5	Eif2s3y Eukaryotic translation initiation factor 2 subunit 3, Y-linked	2.01	5.297	1
3379	IPI:IPI00356872.3	Ppp2r5b Putative uncharacterized protein	2.01	2.616	1
3380	IPI:IPI00122529.1	Rnpep Aminopeptidase B	2.01	3.846	1
3381	IPI:IPI00656182.1	Ufd1l Putative uncharacterized protein	2.01	3.745	1
3382	IPI:IPI00133518.2	Cacnb3 Voltage-dependent L-type calcium channel subunit beta-3	2.01	1.24	1
3383	IPI:IPI00453632.1	Casc4 Isoform 1 of Protein CASC4	2.01	3.908	1
3384	IPI:IPI00857500.1	Ccdc83 Uncharacterized protein	2.01	4.4	1
3385	IPI:IPI00875082.1	Gm2382 5, 10-methenyltetrahydrofolate synthetase-like	2.01	12.32	1
3386	IPI:IPI00944685.1	March5 E3 ubiquitin-protein ligase MARCH5 isoform 3	2.01	5.921	1
3387	IPI:IPI00314106.3	Cecr5 Cat eye syndrome critical region protein 5 homolog	2.01	2.148	1
3388	IPI:IPI00134044.1	Mphosph6 M-phase phosphoprotein 6	2.01	9.317	1
3389	IPI:IPI00133122.3	Mrpl50 39S ribosomal protein L50, mitochondrial	2.01	10.69	1
3390	IPI:IPI00654268.1	Rgs9 regulator of G-protein signaling 9 isoform 2	2	24.17	9
3391	IPI:IPI00850517.1	Gm4684 similar to lacrimal androgen-binding protein delta isoform 1	2	57.14	7
3392	IPI:IPI00663587.1	Rbmxrt heterogeneous nuclear ribonucleoprotein G	2	19.85	9
3393	IPI:IPI00338039.1	Tubb2a Tubulin beta-2A chain	2	75.96	222
3394	IPI:IPI00850955.1	Gm3534 similar to Glyceraldehyde-3-phosphate dehydrogenase	2	65.31	213
3395	IPI:IPI00230665.2	Ncam1 Isoform 2 of Neural cell adhesion molecule 1	2	46.7	57
3396	IPI:IPI00752685.2	Gm8055 similar to Glyceraldehyde-3-phosphate dehydrogenase	2	55.22	68
3397	IPI:IPI00890112.2	Aldh3a1 Aldh3a1 protein	2	37.67	27

3398	IPI:IPI00749677.3	Dnm2 Putative uncharacterized protein	2	16.23	22
3399	IPI:IPI00856779.1	Add1 73 kDa protein	2	26.06	15
3400	IPI:IPI00275539.6	Rtn4 reticulon-4 isoform B2	2	58.93	26
3401	IPI:IPI00854971.1	LOC100046302 similar to Protein disulfide isomerase associated 6	2	35.29	13
3402	IPI:IPI00111556.1	Ppp2cb Serine/threonine-protein phosphatase 2A catalytic subunit beta isoform	2	37.54	9
3403	IPI:IPI00331597.6	Hist1h1d Histone H1.3	2	25.79	9
3404	IPI:IPI00124979.2	Rbmx RNA binding motif protein, X-linked	2	19.69	9
3405	IPI:IPI00113112.3	Rab3b Ras-related protein Rab-3B	2	30.59	8
3406	IPI:IPI00776339.1	Rbbp7 Retinoblastoma binding protein 7	2	21.39	7
3407	IPI:IPI00120193.1	Cdc42 Isoform 1 of Cell division control protein 42 homolog	2	34.55	8
3408	IPI:IPI00858058.1	Crk V-crk sarcoma virus CT10 oncogene homolog (Avian), isoform CRA_c	2	36.27	5
3409	IPI:IPI00890072.1	- 13 kDa protein	2	32.17	5
3410	IPI:IPI00762507.2	Iqsec1 Isoform 1 of IQ motif and SEC7 domain-containing protein 1	2	2.81	2
3411	IPI:IPI00230349.9	Map1lc3b Microtubule-associated proteins 1A/1B light chain 3B	2	22.4	3
3412	IPI:IPI00884467.1	Nudcd1 nudC domain-containing protein 1 isoform 2	2	4.475	3
3413	IPI:IPI00855023.1	LOC100047521 similar to Solute carrier family 7 (cationic amino acid transporter, y+ system), member 5	2	10.44	2
3414	IPI:IPI00457811.4	Gm14135 similar to Cystatin-related protein 1 precursor	2	12.57	2
3415	IPI:IPI00474943.2	Tprkb Tprkb protein	2	20.89	2
3416	IPI:IPI00229728.3	Ints5 Integrator complex subunit 5	2	1.866	2
3417	IPI:IPI00379348.2	Gm13249 similar to acidic ribosomal phosphoprotein P1	2	42.98	2
3418	IPI:IPI00114319.1	Sod3 Extracellular superoxide dismutase [Cu-Zn]	2	5.578	2
3419	IPI:IPI00474167.1	S1pr1 Putative uncharacterized protein	2	4.425	1
3420	IPI:IPI00876019.3	Gm2056 hypothetical protein	2	6.944	1
3421	IPI:IPI00554917.4	Clcn6 MKIAA0046 protein	2	1.356	1
3422	IPI:IPI00113521.5	Ncs1 Neuronal calcium sensor 1	2	8.421	3
3423	IPI:IPI00118372.1	Vamp4 Vesicle-associated membrane protein 4	2	17.02	2
3424	IPI:IPI00321515.1	Plcd1 1-phosphatidylinositol-4,5-bisphosphate phosphodiesterase delta-1	2	3.439	1
3425	IPI:IPI00474125.3	Atl2 Isoform 1 of Atlastin-2	2	3.259	1
3426	IPI:IPI00277399.4	Cluap1 Clusterin-associated protein 1	2	3.39	1
3427	IPI:IPI00757247.1	Evl;LOC100047333 ena/VASP-like protein isoform 3	2	2.506	1
3428	IPI:IPI00830208.1	Pacs2 phosphofurin acidic cluster sorting protein 2	2	1.508	1

3429	IPI:IPI00896595.1	Cars2 probable cysteinyl-tRNA synthetase, mitochondrial	2	2.536	1
3430	IPI:IPI00348414.4	Ado 2-aminoethanethiol dioxygenase	2	6.641	1
3431	IPI:IPI00761756.1	Ube3a ubiquitin-protein ligase E3A isoform 3	2	1.649	1
3432	IPI:IPI00969806.1	Osbp19 Isoform 1 of Oxysterol-binding protein-related protein 9	2	1.495	1
3433	IPI:IPI00396804.2	Ilkap Isoform 1 of Integrin-linked kinase-associated serine/threonine phosphatase 2C	2	3.061	1
3434	IPI:IPI00954636.1	Fam45a hypothetical protein LOC67894 isoform 2	2	5.143	1
3435	IPI:IPI00420955.5	Sort1 Isoform 1 of Sortilin	2	2.788	1
3436	IPI:IPI00137336.1	Gpc1 Glypican-1	2	3.411	1
3437	IPI:IPI00751335.1	Mest Uncharacterized protein	2	6.533	1
3438	IPI:IPI00625129.3	Ftl2 ferritin light chain 2	2	8.743	1
3439	IPI:IPI00323465.3	Amdhd2 Putative N-acetylglucosamine-6-phosphate deacetylase	2	5.134	1
3440	IPI:IPI00230145.5	Fth1 Ferritin heavy chain	2	9.89	2
3441	IPI:IPI00458428.1	Ssr3 Isoform 2 of Translocon-associated protein subunit gamma	2	7.821	1
3442	IPI:IPI00895516.1	Tmem201 Transmembrane protein 201	2	2.296	1
3443	IPI:IPI00648190.1	Slc25a35 32 kDa protein	2	2.703	1
3444	IPI:IPI00281538.4	Rab28 Ras-related protein Rab-28	2	3.167	1
3445	IPI:IPI00954670.1	Csdc2 cold shock domain-containing protein C2	2	7.143	1
3446	IPI:IPI00114944.3	Fam195b Protein FAM195B	2	11.34	1
3447	IPI:IPI00467223.1	Nckipsd NCK-interacting protein with SH3 domain	2	1.821	1
3448	IPI:IPI00128245.1	Cabp4 Calcium-binding protein 4	2	7.749	1
3449	IPI:IPI00169923.8	Tet2 Tet oncogene 2	2	0.4685	1
3450	IPI:IPI00886345.1	Cdc37l1 Isoform 2 of Hsp90 co-chaperone Cdc37-like 1	2	5.863	1
3451	IPI:IPI00857740.1	Blvrb 27 kDa protein	2	6.883	1
3452	IPI:IPI00109639.6	Exosc8 Exosome complex exonuclease RRP43	2	9.42	1
3453	IPI:IPI00458011.5	Gm16500 similar to Scoc protein	2	11.11	1
3454	IPI:IPI00410756.2	6530401D17Rik;2900062L11Rik Signal peptidase complex subunit 3	2	6.111	1
3455	IPI:IPI00136073.1	Zfp579 Putative uncharacterized protein (Fragment)	2	4.046	1
3456	IPI:IPI00880232.1	Arl6ip4 Uncharacterized protein	2	8.811	1
3457	IPI:IPI00317025.3	Car5b Carbonic anhydrase 5B, mitochondrial	2	5.363	1
3458	IPI:IPI00113043.1	Tomm40l Mitochondrial import receptor subunit TOM40B	2	5.195	1
3459	IPI:IPI00122527.1	Sgtb Small glutamine-rich tetratricopeptide repeat-containing protein beta	2	6.579	1
3460	IPI:IPI00875326.1	Tomm40 Uncharacterized protein	2	3.571	1
3461	IPI:IPI00626741.2	Phyhd1 Phytanoyl-CoA dioxygenase domain containing 1	2	4.53	1

3462	IPI:IPI00134373.1	Ly6h Putative uncharacterized protein	2	8.543	1
3463	IPI:IPI00118026.1	Ap1s1 AP-1 complex subunit sigma-1A	2	10.13	1
3464	IPI:IPI00876050.1	Lsm2 U6 snRNA-associated Sm-like protein LSm2	2	20	1
3465	IPI:IPI00756696.2	Ppp4r2 Serine/threonine-protein phosphatase 4 regulatory subunit 2	2	3.837	1
3466	IPI:IPI00319160.6	Sssca1 Sjogren syndrome/scleroderma autoantigen 1 homolog	2	13.57	1
3467	IPI:IPI00169670.1	Galm Aldose 1-epimerase	2	4.971	1
3468	IPI:IPI00123099.2	Ap3s2 Putative uncharacterized protein	2	3.968	1
3469	IPI:IPI00119959.1	Banf1 Barrier-to-autointegration factor	2	26.97	1
3470	IPI:IPI00466593.1	Exosc6 Exosome complex exonuclease MTR3	2	5.495	1
3471	IPI:IPI00652117.1	2610030H06Rik Isoform 2 of Vacuolar ATPase assembly integral membrane protein VMA21	2	14.46	1
3472	IPI:IPI00317932.4	Yif1b Isoform 1 of Protein YIF1B	2	8.039	2
3473	IPI:IPI00854941.1	Nudt4 Diphosphoinositol polyphosphate phosphohydrolase 2	2	13.41	1
3474	IPI:IPI00880407.1	Ufm1 Protein	2	38.46	2
3475	IPI:IPI00970323.1	Spcs1 signal peptidase complex subunit 1	2	12.75	1
3476	IPI:IPI00553596.1	Sdf2 Sdf2 protein	2	7.865	1
3477	IPI:IPI00132128.1	Rpa3 Replication protein A 14 kDa subunit	2	14.05	2
3478	IPI:IPI00126552.3	Gm4822 similar to small nuclear ribonucleoprotein polypeptide C	2	7.547	2
3479	IPI:IPI00125509.1	Fxc1 Mitochondrial import inner membrane translocase subunit Tim9 B	2	19	1
3480	IPI:IPI00111050.1	2010107G23Rik Uncharacterized protein C10orf35 homolog	2	11.67	1
3481	IPI:IPI00918640.1	LOC100233175 hypothetical protein LOC100233175 isoform 2	2	28	1
3482	IPI:IPI00857026.1	Polr2i Uncharacterized protein	2	27.71	1
3483	IPI:IPI00855058.1	Gm5494 exocrine gland-secreting peptide 6 precursor	2	16.91	1
3484	IPI:IPI00221694.1	Bola2 Isoform 1 of BolaA-like protein 2	2	22.09	1
3485	IPI:IPI00132169.1	Timm8b Mitochondrial import inner membrane translocase subunit Tim8 B	2	13.25	1
3486	IPI:IPI00113711.2	Pip Prolactin-inducible protein homolog	2	10.96	1
3487	IPI:IPI00405736.3	Cd81 CD81 antigen	2	8.475	2
3488	IPI:IPI00117503.2	Polr2f DNA-directed RNA polymerases I, II, and III subunit RPABC2	2	5.512	1
3489	IPI:IPI00312018.6	Mlec Uncharacterized protein	2	6.164	1
3490	IPI:IPI00132765.2	Tomm6;LOC100047839 Mitochondrial import receptor subunit TOM6 homolog	2	18.92	2
3491	IPI:IPI00137694.5	Hddc2 HD domain-containing protein 2	2	8.543	2
3492	IPI:IPI00830703.1	Myeov2 Uncharacterized protein	2	20	1
3493	IPI:IPI00113143.1	2010107E04Rik 6.8 kDa mitochondrial proteolipid	2	13.79	2

3494	IPI:IPI00831036.2	Crygc GammaCins-crystallin splice variant	2	70.86	78
3495	IPI:IPI00620325.2	Ndr4 Isoform 3 of Protein NDRG4	2	5.446	3
3496	IPI:IPI00165902.1	Timm10 Mitochondrial import inner membrane translocase subunit Tim10	2	7.778	1
3497	IPI:IPI00114593.1	Actc1 Actin, alpha cardiac muscle 1	2	71.88	67
3498	IPI:IPI00470167.3	Rtn4 reticulon-4 isoform B1	2	59.55	24
3499	IPI:IPI00896061.1	Snx16 sorting nexin-16 isoform a	2	6.395	2
3500	IPI:IPI00378360.2	Bbs1 Bardet-Biedl syndrome 1	2	3.879	3
3501	IPI:IPI00625848.2	Plcb4 Plcb4	2	1.872	3
3502	IPI:IPI00556688.1	Dctn4 Isoform 1 of Dynactin subunit 4	2	4.711	2
3503	IPI:IPI00753058.3	Adamts15 Uncharacterized protein	2	3.299	3
3504	IPI:IPI00137496.1	Gzmf Granzyme F	2	8.065	1
3505	IPI:IPI00230415.5	Eif2s3x Eukaryotic translation initiation factor 2 subunit 3, X-linked	2	5.297	1
3506	IPI:IPI00387388.4	Bag3 BAG family molecular chaperone regulator 3	2	2.426	1
3507	IPI:IPI00885385.1	Stx1a Uncharacterized protein	2	5.469	1
3508	IPI:IPI00117214.3	Hsd12 Hydroxysteroid dehydrogenase-like protein 2	2	3.878	1
3509	IPI:IPI00130235.2	Hs1bp3 HCLS1-binding protein 3	2	4.293	1
3510	IPI:IPI00775971.1	Pitpnm3 Pitpnm3 protein	2	2.544	1
3511	IPI:IPI00309527.5	Dffa DNA fragmentation factor subunit alpha isoform a	2	4.834	1
3512	IPI:IPI00857949.2	Stx16 syntaxin-16 isoform b	2	5.59	1
3513	IPI:IPI00323251.3	Gbp2 Interferon-induced guanylate-binding protein 2	2	3.226	1
3514	IPI:IPI00775791.1	Manf Putative uncharacterized protein	2	9.497	1
3515	IPI:IPI00272521.3	Get4 Isoform 1 of Golgi to ER traffic protein 4 homolog	2	4.587	1
3516	IPI:IPI00223185.5	Prkab1 5'-AMP-activated protein kinase subunit beta-1	2	6.667	1
3517	IPI:IPI00416133.1	Accn1 Isoform 1 of Amiloride-sensitive cation channel 1, neuronal	2	1.953	1
3518	IPI:IPI00129754.1	Podxl Podocalyxin	2	2.151	1
3519	IPI:IPI00944741.1	Cuedc2 CUE domain-containing protein 2 isoform b	2	5.128	1
3520	IPI:IPI00330048.2	Tomm34 Isoform 2 of Mitochondrial import receptor subunit TOM34	2	5.825	1
3521	IPI:IPI00379258.1	Gm5278 Uncharacterized protein	2	8.743	1
3522	IPI:IPI00136054.1	Lsm2 U6 snRNA-associated Sm-like protein LSM2 isoform 1	2	14.5	1
3523	IPI:IPI00310916.1	Cd81 CD81 antigen	2	8.475	1
3524	IPI:IPI00928050.1	Elovl4 elongation of very long chain fatty acids protein 4	2	2.885	1
3525	IPI:IPI00467176.2	Ift46 Intraflagellar transport protein 46 homolog	2	4.651	1

3526	IPI:IPI00124181.2	Sephs2 Selenide, water dikinase 2	2	3.319	1
3527	IPI:IPI00131895.4	March5 E3 ubiquitin-protein ligase MARCH5	2	3.237	1
3528	IPI:IPI00930815.1	Synj2bp Isoform 4 of Synaptojanin-2-binding protein	2	7.843	1
3529	IPI:IPI00848868.1	LOC100046297 similar to ribosomal protein S26	2	7.826	1
3530	IPI:IPI00122032.4	Reep2 Receptor expression-enhancing protein 2	2	9.449	1
3531	IPI:IPI00928108.1	Nucks1 nuclear ubiquitous casein and cyclin-dependent kinases substrate isoform 2	2	8.155	1
3532	IPI:IPI00830531.1	Folr1 12 kDa protein	2	10.58	1
3533	IPI:IPI00761431.1	Hmgn1 Putative uncharacterized protein	2	31.25	1
3534	IPI:IPI00918847.1	Pkig Protein kinase inhibitor, gamma	2	28.57	1
3535	IPI:IPI00312113.1	Sdhaf2 Isoform 1 of Succinate dehydrogenase assembly factor 2, mitochondrial	2	7.317	1
3536	IPI:IPI00347634.2	Dnaja3 Isoform 1 of DnaJ homolog subfamily A member 3, mitochondrial	2	8.125	2
3537	IPI:IPI00461249.1	Gm12141 similar to Heat shock protein 1	2	60.56	48
3538	IPI:IPI00404804.1	Actg2 Actin, gamma-enteric smooth muscle	2	62.5	59
3539	IPI:IPI00399958.3	Calu calumenin isoform 2	2	31.75	8
3540	IPI:IPI00116254.1	Prdx4 Peroxiredoxin-4	2	11.31	6
3541	IPI:IPI00222284.4	Akr1b10 aldo-keto reductase family 1, member B10	2	8.861	3
3542	IPI:IPI00170316.1	Mcfcd2 Multiple coagulation factor deficiency protein 2 homolog	2	28.28	2
3543	IPI:IPI00403373.1	Gldc Putative uncharacterized protein	2	0.9814	1
3544	IPI:IPI00918179.1	Slc4a4 Slc4a4 protein	2	1.589	1
3545	IPI:IPI00606072.2	Kbtbd7 kelch repeat and BTB (POZ) domain containing 7	2	3.188	1
3546	IPI:IPI00459033.2	Dnajc3 DnaJ homolog subfamily C member 3	2	1.984	1
3547	IPI:IPI00881156.1	Pigg Uncharacterized protein	2	2	1
3548	IPI:IPI00848768.1	Casc4 Isoform 3 of Protein CASC4	2	4.913	1
3549	IPI:IPI00116558.1	Rhog Rho-related GTP-binding protein RhoG	2	12.57	2
3550	IPI:IPI00226787.2	Flad1 Isoform 2 of FAD synthase	2	2.317	1
3551	IPI:IPI00885906.1	Mllt4 Putative uncharacterized protein	2	0.902	1
3552	IPI:IPI00110351.1	Lhpp Isoform 1 of Phospholysine phosphohistidine inorganic pyrophosphate phosphatase	2	10.74	1
3553	IPI:IPI00853897.1	LOC100046741 similar to red-1	2	5.379	1
3554	IPI:IPI00172178.1	Slc16a14 Monocarboxylate transporter 14	2	2.148	1
3555	IPI:IPI00222125.1	Comtd1 Catechol O-methyltransferase domain-containing protein 1	2	9.924	1
3556	IPI:IPI00162949.1	Cdipt CDP-diacylglycerol--inositol 3-phosphatidyltransferase	2	5.164	1
3557	IPI:IPI00755989.2	Rps15-ps2 similar to insulinoma protein	2	20.69	2
3558	IPI:IPI00387549.3	Gabpa Putative uncharacterized protein	2	2.643	1
3559	IPI:IPI00170351.2	Obox3 oocyte specific homeobox 3	2	5.075	2

3560	IPI:IPI00115244.1	Fgf1 Heparin-binding growth factor 1	2	7.742	1
3561	IPI:IPI00279079.1	Fgb Fibrinogen beta chain	2	3.534	1
3562	IPI:IPI00320004.2	Fam84a Protein FAM84A	2	6.507	1
3563	IPI:IPI00828495.3	Rab9 RAB9, member RAS oncogene family	2	6.512	1
3564	IPI:IPI00118923.2	Ppp1r11 Protein phosphatase 1 regulatory subunit 11	2	12.21	1
3565	IPI:IPI00119807.1	Robld3 Mitogen-activated protein-binding protein-interacting protein	2	14.4	1
3566	IPI:IPI00343941.3	Polr2i;LOC100048301 DNA-directed RNA polymerase II subunit RPB9	2	18.4	1
3567	IPI:IPI00124027.1	A2ld1 Isoform 1 of Gamma-glutamylaminocyclotransferase	2	8.725	1
3568	IPI:IPI00222113.2	Cd99l2 Isoform 1 of CD99 antigen-like protein 2	2	11.81	1
3569	IPI:IPI00605904.1	Gm12888 hypothetical protein LOC545677	2	6.723	1
3570	IPI:IPI00132224.1	Rfk Riboflavin kinase	2	7.097	1
3571	IPI:IPI00856479.1	Fxc1;Dnhd1 Uncharacterized protein	2	27.94	1
3572	IPI:IPI00123176.1	Gm6316 Glyceraldehyde-3-phosphate dehydrogenase	2	61.36	109
3573	IPI:IPI00109044.8	2900073G15Rik myosin light chain, regulatory B-like	2	38.95	6
3574	IPI:IPI00338854.3	Gnai3 Guanine nucleotide-binding protein G(k) subunit alpha	2	17.51	13
3575	IPI:IPI00453582.2	Grsf1 G-rich sequence factor 1	2	6.681	3
3576	IPI:IPI00652828.1	Rsu1 Putative uncharacterized protein	2	9.677	2
3577	IPI:IPI00875794.1	Pla2g16 18 kDa protein	2	11.8	2
3578	IPI:IPI00604878.3	Pitpnm3 Isoform 1 of Membrane-associated phosphatidylinositol transfer protein 3	2	1.335	1
3579	IPI:IPI00225419.1	Ptpn6 Isoform 2 of Tyrosine-protein phosphatase non-receptor type 6	2	2.01	1
3580	IPI:IPI00116929.1	Cstf3 Cleavage stimulation factor subunit 3	2	2.232	1
3581	IPI:IPI00918316.1	Mcfd2 Uncharacterized protein	2	29.17	1
3582	IPI:IPI00622070.1	Nxn Isoform 2 of Nucleoredoxin	2	5.627	1
3583	IPI:IPI00284978.3	Mrpl9 39S ribosomal protein L9, mitochondrial	2	6.415	1
3584	IPI:IPI00457815.3	Usp39 U4/U6.U5 tri-snRNP-associated protein 2	2	3.369	1
3585	IPI:IPI00554884.1	Strn Striatin, calmodulin binding protein	2	2.179	1
3586	IPI:IPI00283689.8	Fbxo24 F-box only protein 24	2	1.528	1
3587	IPI:IPI00261239.6	Eif2b5 Translation initiation factor eIF-2B subunit epsilon	2	1.674	1
3588	IPI:IPI00129964.1	Hax1 HCLS1-associated protein X-1	2	4.286	1
3589	IPI:IPI00462405.1	Slc9a3r2 Slc9a3r2 protein	2	4.43	1
3590	IPI:IPI00137103.3	Brcc3 Isoform 1 of Lys-63-specific deubiquitinase BRCC36	2	5.155	1
3591	IPI:IPI00757762.1	LOC100046996 similar to farnesyltransferase alpha subunit	2	4.403	1

3592	IPI:IPI00856916.1	Naaa N-acylethanolamine-hydrolyzing acid amidase isoform 2	2	2.222	1
3593	IPI:IPI00224200.1	Iws1 Isoform 1 of Protein IWS1 homolog	2	2.48	1
3594	IPI:IPI00133593.3	Gnpda2 Isoform 2 of Glucosamine-6-phosphate isomerase 2	2	4.38	1
3595	IPI:IPI00649455.1	Mul1 Isoform 3 of Mitochondrial ubiquitin ligase activator of NFKB 1	2	2.305	1
3596	IPI:IPI00850595.1	- TCTEX5 isoform 3	2	12.7	1
3597	IPI:IPI00653762.1	Fgf9 Putative uncharacterized protein	2	16.35	1
3598	IPI:IPI00318935.2	1810035L17Rik Isoform 1 of SRA stem-loop-interacting RNA-binding protein, mitochondrial	2	25	1
3599	IPI:IPI00458580.1	Spg21 Isoform 2 of Maspardin	2	6.873	1
3600	IPI:IPI00127176.3	6720456B07Rik Probable protein BRICK1	2	14.67	1
3601	IPI:IPI00119017.1	Hagl1 Isoform 1 of Hydroxyacylglutathione hydrolase-like protein	2	6.007	1
3602	IPI:IPI00112278.1	Triap1 TP53-regulated inhibitor of apoptosis 1	2	18.42	1
3603	IPI:IPI00406098.2	Gm9997 hypothetical protein	2	2.538	1
3604	IPI:IPI00118948.3	Gabpa GA-binding protein alpha chain	2	2.643	1
3605	IPI:IPI00132932.1	Mrps12 28S ribosomal protein S12, mitochondrial	2	17.99	1
3606	IPI:IPI00118666.1	Rab15 Rab-like protein 5	2	10.27	1
3607	IPI:IPI00889976.1	Fetub Fetuin-B	2	2.32	1
3608	IPI:IPI00416043.5	Rnase4 ribonuclease 4 precursor	2	8.784	1
3609	IPI:IPI00867880.1	Pcp4l1 Purkinje cell protein 4-like protein 1	2	27.94	1
3610	IPI:IPI00776005.1	2610018G03Rik Novel protein containing a protein kinase domain	1.98	3.827	1
3611	IPI:IPI00227522.2	9530053A07Rik Fc fragment of IgG binding protein-like	1.98	0.5424	2
3612	IPI:IPI00172202.1	Lsm14a Protein LSM14 homolog A	1.98	4.978	1
3613	IPI:IPI00462698.1	Gm5630 similar to geranylgeranyl diphosphate synthase1	1.97	8.491	2
3614	IPI:IPI00407509.1	Ngfr tumor necrosis factor receptor superfamily member 16	1.96	5.621	1
3615	IPI:IPI00119814.3	Cwc15 Protein CWC15 homolog	1.96	3.93	1
3616	IPI:IPI00850789.1	- TCTEX5 isoform 1	1.96	12.7	1
3617	IPI:IPI00221863.1	Cggbp1 CGG triplet repeat-binding protein 1	1.96	5.389	1
3618	IPI:IPI00648558.4	Dcun1d2 Isoform 1 of DCN1-like protein 2	1.96	6.564	1
3619	IPI:IPI00407993.3	2700094K13Rik Selenoprotein H	1.96	8.621	1
3620	IPI:IPI00387494.1	Hspa2 heat shock-related 70 kDa protein 2	1.96	33.18	33
3621	IPI:IPI00153840.2	Cadm4 Cell adhesion molecule 4	1.95	5.67	1
3622	IPI:IPI00133215.3	Ndufb7 NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 7	1.94	11.68	1
3623	IPI:IPI00131810.2	Zfr Zinc finger RNA-binding protein	1.93	2.98	2
3624	IPI:IPI00130653.1	Myh7 Myosin-7	1.93	0.8786	1
3625	IPI:IPI00228616.5	Hist1h1a Histone H1.1	1.92	14.55	4

3626	IPI:IPI00463722.1	Gm1553 Lacrein	1.91	9.574	1
3627	IPI:IPI00331555.2	Bckdha 2-oxoisovalerate dehydrogenase subunit alpha, mitochondrial	1.89	3.587	1
3628	IPI:IPI00123059.1	Scg5 Neuroendocrine protein 7B2	1.89	9.434	1
3629	IPI:IPI00338904.1	Ctdp1 Isoform 1 of RNA polymerase II subunit A C-terminal domain phosphatase	1.89	0.9375	1
3630	IPI:IPI00267983.5	9330129D05Rik acyl-Coenzyme A dehydrogenase family, member 10-like	1.89	1.982	2
3631	IPI:IPI00464104.3	Tsc22d1 Isoform 3 of TSC22 domain family protein 1	1.89	1.206	1
3632	IPI:IPI00761429.2	D030074E01Rik hypothetical protein LOC75964 isoform 1	1.88	2.227	3
3633	IPI:IPI00336362.2	Aldh1a7 Aldehyde dehydrogenase, cytosolic 1	1.87	20.56	16
3634	IPI:IPI00471361.3	Stub1 STIP1 homology and U box-containing protein 1	1.87	8.882	2
3635	IPI:IPI00623090.3	Cog7 Conserved oligomeric Golgi complex subunit 7	1.86	2.468	2
3636	IPI:IPI00895383.1	Mybpc1 Protein	1.86	1.438	1
3637	IPI:IPI00461416.4	Zc3h14 Isoform 1 of Zinc finger CCCH domain-containing protein 14	1.86	1.769	1
3638	IPI:IPI00127542.1	Ube2e1 Ubiquitin-conjugating enzyme E2 E1	1.85	7.772	2
3639	IPI:IPI00337844.4	Ranbp2 E3 SUMO-protein ligase RanBP2	1.85	1.441	6
3640	IPI:IPI00471067.2	Med28 Mediator of RNA polymerase II transcription subunit 28	1.85	7.865	1
3641	IPI:IPI00406434.5	Agrn Mini-agrin	1.85	1.769	1
3642	IPI:IPI00674768.3	Stxbp5 Isoform 1 of Syntaxin-binding protein 5	1.85	1.997	1
3643	IPI:IPI00831326.1	Flad1 Isoform 1 of FAD synthase	1.85	2.439	1
3644	IPI:IPI00130764.3	Ppt2 Lysosomal thioesterase PPT2	1.84	4.636	1
3645	IPI:IPI00467045.3	Ube4a ubiquitination factor E4A	1.83	1.751	2
3646	IPI:IPI00127264.3	Klc3 Kinesin light chain 3	1.83	4.528	2
3647	IPI:IPI00465597.7	D030074E01Rik hypothetical protein LOC75964 isoform 2	1.83	1.825	1
3648	IPI:IPI00853900.1	Celf4 Isoform 1 of CUGBP Elav-like family member 4	1.83	1.646	1
3649	IPI:IPI00112001.1	Cap2 Adenylyl cyclase-associated protein 2	1.82	4.832	2
3650	IPI:IPI00116065.3	Stk24 Serine/threonine-protein kinase 24	1.82	6.961	2
3651	IPI:IPI00343550.7	Gm600 similar to hCG17291	1.82	2.34	1
3652	IPI:IPI00117754.1	Sdf4 Isoform 1 of 45 kDa calcium-binding protein	1.82	5.263	1
3653	IPI:IPI00649972.1	Vps25 Vacuolar protein sorting 25	1.81	11.72	1
3654	IPI:IPI00885459.1	Tnik Uncharacterized protein	1.81	1.183	1
3655	IPI:IPI00406419.4	Pepd Xaa-Pro dipeptidase	1.8	1.623	1
3656	IPI:IPI00321499.1	Bcl2l13 Bcl-2-like protein 13	1.8	9.677	2
3657	IPI:IPI00469945.3	Lrrcc1 Isoform 2 of Leucine-rich repeat and coiled-coil domain-containing protein 1	1.79	0.5941	1

3658	IPI:IPI00762823.3	Zfr2 Uncharacterized protein	1.79	2.632	1
3659	IPI:IPI00336248.2	Pde4dip Isoform 2 of Myomegalin	1.79	1.521	1
3660	IPI:IPI00330806.1	Bsdc1 BSD domain-containing protein 1	1.79	9.133	2
3661	IPI:IPI00410740.1	Cars Isoform 2 of CysteinyI-tRNA synthetase, cytoplasmic	1.79	2.674	2
3662	IPI:IPI00674601.1	Gm6654 predicted gene 6654	1.79	13.04	1
3663	IPI:IPI00321922.2	Pacs1 Phosphofurin acidic cluster sorting protein 1	1.79	1.457	1
3664	IPI:IPI00648810.1	Pcyt2 Phosphate cytidyltransferase 2, ethanolamine, isoform CRA_b	1.78	4.145	1
3665	IPI:IPI00556778.2	Smad4;LOC100048076 MAD homolog 4 (Drosophila), isoform CRA_b	1.78	3.811	1
3666	IPI:IPI00875117.1	Crmp1 Dihydropyrimidinase-related protein 1	1.77	59.97	43
3667	IPI:IPI00856739.1	Eml1 Uncharacterized protein	1.77	1.574	1
3668	IPI:IPI00118978.4	Hcn1 Potassium/sodium hyperpolarization-activated cyclic nucleotide-gated channel 1	1.77	1.758	1
3669	IPI:IPI00462651.1	Commd5 COMM domain-containing protein 5	1.77	7.589	1
3670	IPI:IPI00828253.1	Dmd dystrophin	1.77	0.7613	2
3671	IPI:IPI00116038.1	Cd59a CD59A glycoprotein	1.77	13.82	1
3672	IPI:IPI00330406.2	Ddx23 Uncharacterized protein	1.76	1.343	1
3673	IPI:IPI00928367.1	C2 Complement component 2	1.76	1.236	1
3674	IPI:IPI00944079.1	Rpl3l ribosomal protein L3-like isoform 1	1.76	1.966	1
3675	IPI:IPI00831094.1	Cpne1 Copine I	1.75	7.583	1
3676	IPI:IPI00876566.1	Plch2 Isoform 2 of 1-phosphatidylinositol-4,5-bisphosphate phosphodiesterase eta-2	1.75	0.8885	1
3677	IPI:IPI00132682.1	Pmm1 Phosphomannomutase 1	1.74	3.435	1
3678	IPI:IPI00828952.1	Plaa phospholipase A-2-activating protein	1.74	5.29	3
3679	IPI:IPI00318645.6	Ndufa11 NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 11	1.74	11.19	1
3680	IPI:IPI00675502.1	Akap13 Putative uncharacterized protein	1.74	5.263	1
3681	IPI:IPI00224584.1	Casq2 Calsequestrin	1.74	3.009	1
3682	IPI:IPI00664808.2	Kdm3b Isoform 2 of Lysine-specific demethylase 3B	1.73	3.292	2
3683	IPI:IPI00652964.2	Sumo3 Isoform 2 of Small ubiquitin-related modifier 3	1.73	48.18	3
3684	IPI:IPI00890345.1	Wdr47 WD repeat-containing protein 47	1.73	1.413	1
3685	IPI:IPI00623893.2	Rpl27-ps1 hypothetical protein isoform 1	1.73	14.71	2
3686	IPI:IPI00322748.3	Fbln1 Isoform D of Fibulin-1	1.73	3.262	1
3687	IPI:IPI00420344.1	Rrp12 RRP12-like protein	1.72	0.5405	1
3688	IPI:IPI00653323.1	Rab3gap2 Putative uncharacterized protein	1.72	7.619	1
3689	IPI:IPI00225661.3	Pyhin1 Pyrin and HIN domain-containing protein 1	1.72	1.667	1
3690	IPI:IPI00314640.5	Abtb1 Ankyrin repeat and BTB/POZ domain-containing protein 1	1.71	2.929	1
3691	IPI:IPI00461298.4	Rapgef1 Rap guanine nucleotide exchange factor-	1.7	1.662	1

		like 1			
3692	IPI:IPI00515151.2	Nipsnap1 Putative uncharacterized protein	1.7	21.32	5
3693	IPI:IPI00308498.1	Casp3 Caspase-3	1.7	4.332	1
3694	IPI:IPI00135443.2	Top2b DNA topoisomerase 2-beta	1.68	1.799	3
3695	IPI:IPI00115902.2	Rpl35a-ps2;Rpl35a;Rpl35a-ps3;Rpl35a-ps6;Rpl35a-ps5;Rpl35a-ps4;LOC100048620;LOC100044516;LOC100046034 60S ribosomal protein L35a	1.68	6.364	1
3696	IPI:IPI00130624.1	Pld3 Phospholipase D3	1.68	2.049	1
3697	IPI:IPI00153101.3	Tmem109 Transmembrane protein 109	1.68	4.938	1
3698	IPI:IPI00467315.4	Elmod2 ELMO domain-containing protein 2	1.68	3.072	1
3699	IPI:IPI00928073.1	Sqstm1 Uncharacterized protein	1.68	4.712	1
3700	IPI:IPI00556695.1	Sltm Isoform 2 of SAFB-like transcription modulator	1.68	2.369	2
3701	IPI:IPI00162769.4	Mrpl24 39S ribosomal protein L24, mitochondrial	1.68	7.407	1
3702	IPI:IPI00116105.1	Serpina6 Corticosteroid-binding globulin	1.67	7.557	2
3703	IPI:IPI00928163.1	Cfb complement factor B isoform 1	1.67	1.573	1
3704	IPI:IPI00269660.2	Ylpm1 Putative uncharacterized protein	1.67	1.956	1
3705	IPI:IPI00396839.1	Tubgcp3 Gamma-tubulin complex component 3	1.66	2.431	1
3706	IPI:IPI00317599.3	Syap1 Synapse-associated protein 1	1.66	6.027	2
3707	IPI:IPI00621625.1	Gm10154 Uncharacterized protein	1.66	12.82	2
3708	IPI:IPI00849737.1	Gm3386;LOC100047065 hypothetical protein isoform 1	1.66	12.86	1
3709	IPI:IPI00387212.1	Naa15 N-alpha-acetyltransferase 15, NatA auxiliary subunit	1.64	1.272	1
3710	IPI:IPI00420601.6	Usp10 Isoform 2 of Ubiquitin carboxyl-terminal hydrolase 10	1.64	1.892	1
3711	IPI:IPI00135048.1	Vps33a Vacuolar protein sorting-associated protein 33A	1.64	1.672	1
3712	IPI:IPI00923637.1	1300001I01Rik Isoform 2 of Protein KIAA0664	1.64	0.978	1
3713	IPI:IPI00121707.2	Nudt10;Nudt11 Diphosphoinositol polyphosphate phosphohydrolase 3-alpha	1.62	12.2	1
3714	IPI:IPI00894870.1	Nsun2 Isoform 1 of tRNA (cytosine-5-)-methyltransferase NSUN2	1.62	1.321	1
3715	IPI:IPI00109358.5	Tmco6 Isoform 1 of Transmembrane and coiled-coil domain-containing protein 6	1.62	1.619	1
3716	IPI:IPI00111004.1	Ggct Gamma-glutamylcyclotransferase	1.61	5.319	1
3717	IPI:IPI00830834.2	Homer1 Putative uncharacterized protein	1.61	13.89	2
3718	IPI:IPI00758039.1	Gm9138 Uncharacterized protein	1.61	21.43	2
3719	IPI:IPI00131988.1	Mrpl49 39S ribosomal protein L49, mitochondrial	1.6	7.229	1
3720	IPI:IPI00387318.3	Tmem30a Cell cycle control protein 50A	1.6	4.67	1
3721	IPI:IPI00405596.1	Pgm3 phosphoacetylglucosamine mutase isoform 2	1.6	3.992	2
3722	IPI:IPI00850690.1	4922501C03Rik Protein QN1 homolog	1.6	0.4989	1

3723	IPI:IPI00125592.1	Coq7 Ubiquinone biosynthesis protein COQ7 homolog	1.59	8.295	1
3724	IPI:IPI00652447.1	Blvra Putative uncharacterized protein (Fragment)	1.59	5.172	1
3725	IPI:IPI00338963.3	Fkbp5 Peptidyl-prolyl cis-trans isomerase FKBP5	1.58	3.289	1
3726	IPI:IPI00123276.1	Mosc2 MOSC domain-containing protein 2, mitochondrial	1.58	7.101	2
3727	IPI:IPI00459487.3	Suclg2 Isoform 1 of Succinyl-CoA ligase [GDP-forming] subunit beta, mitochondrial	1.58	2.771	1
3728	IPI:IPI00655073.1	Yeats2 Isoform 2 of YEATS domain-containing protein 2	1.57	0.4598	1
3729	IPI:IPI00336291.6	Tecpr1 Isoform 1 of Tectonin beta-propeller repeat-containing protein 1	1.57	2.573	1
3730	IPI:IPI00895251.1	Sec11a Sec11a protein (Fragment)	1.57	4	1
3731	IPI:IPI00943435.1	Thbs3 thrombospondin-3 precursor	1.56	0.8368	1
3732	IPI:IPI00163021.2	Sdsl Serine dehydratase-like	1.56	6.991	1
3733	IPI:IPI00944715.1	Smc1a structural maintenance of chromosomes protein 1A	1.55	0.7299	1
3734	IPI:IPI00317966.6	Sra1 steroid receptor RNA activator 1 isoform a	1.55	9.052	1
3735	IPI:IPI00808598.1	Gtf2f1 General transcription factor IIF, polypeptide 1, isoform CRA_c	1.55	3.543	2
3736	IPI:IPI00320716.2	Rtn4ip1 Reticulon-4-interacting protein 1, mitochondrial	1.54	4.798	2
3737	IPI:IPI00849731.1	- similar to heterogeneous nuclear ribonucleoprotein A3	1.54	54.95	47
3738	IPI:IPI00274186.8	Arrb1 Isoform 1A of Beta-arrestin-1	1.54	9.091	3
3739	IPI:IPI00875350.1	Ctnnd2 Putative uncharacterized protein	1.53	1.146	1
3740	IPI:IPI00652802.2	Agap1 arf-GAP with GTPase, ANK repeat and PH domain-containing protein 1 isoform 2	1.52	2.363	2
3741	IPI:IPI00408556.1	Gm5578 similar to RIKEN cDNA 0610010K06 gene	1.52	4.136	3
3742	IPI:IPI00515754.1	Rabep1 Rabaptin, RAB GTPase binding effector protein 1, isoform CRA_a	1.52	1.946	1
3743	IPI:IPI00622783.2	Stk39 STE20/SPS1-related proline-alanine-rich protein kinase	1.52	4.676	2
3744	IPI:IPI00387436.1	Alkbh7 Isoform 1 of Probable alpha-ketoglutarate-dependent dioxygenase ABH7	1.51	9.955	1
3745	IPI:IPI00853800.1	LOC100048165 similar to Ran-binding protein 16 isoform 3	1.51	1.656	1
3746	IPI:IPI00407242.4	Rabep2 Isoform 3 of Rab GTPase-binding effector protein 2	1.49	4.082	2
3747	IPI:IPI00458893.2	Tspan13 Tetraspanin-13	1.49	3.431	1
3748	IPI:IPI00755907.1	Aqr Aquarius	1.48	1.214	1
3749	IPI:IPI00678360.3	- similar to heterogeneous nuclear ribonucleoprotein A3, isoform 2	1.48	46.41	37
3750	IPI:IPI00136912.1	Srm Spermidine synthase	1.48	6.291	2
3751	IPI:IPI00849457.1	Gm15365 similar to Translocase of outer	1.48	10.32	1

		mitochondrial membrane 20 homolog			
3752	IPI:IPI00785299.1	Atp2b3 Atp2b3 protein	1.47	3.787	6
3753	IPI:IPI00115766.2	Bloc1s1 Biogenesis of lysosome-related organelles complex 1 subunit 1	1.47	13.6	1
3754	IPI:IPI00225194.4	Fam73a Isoform 1 of Protein FAM73A	1.46	2.5	1
3755	IPI:IPI00762634.1	Bclaf1 Isoform 3 of Bcl-2-associated transcription factor 1	1.46	4.278	2
3756	IPI:IPI00111877.1	Ssbp1 Single-stranded DNA-binding protein, mitochondrial	1.46	3.947	1
3757	IPI:IPI00649022.1	Gaa Glucosidase, alpha, acid	1.46	6.28	1
3758	IPI:IPI00133531.1	Atp5s ATP synthase subunit s, mitochondrial	1.46	4	1
3759	IPI:IPI00319707.1	Car12 Carbonic anhydrase 12	1.46	3.107	1
3760	IPI:IPI00169752.3	Lace1 Lactation elevated protein 1	1.46	6.667	3
3761	IPI:IPI00320878.5	Rnf121 Isoform 1 of RING finger protein 121	1.46	5.199	1
3762	IPI:IPI00108557.1	4921513D11Rik Putative uncharacterized protein	1.44	2.029	1
3763	IPI:IPI00136140.1	Rem1 GTP-binding protein REM 1	1.44	5.724	2
3764	IPI:IPI00553703.2	Frem2 Isoform 1 of FRAS1-related extracellular matrix protein 2	1.44	0.443	1
3765	IPI:IPI00620288.1	Rpl28-ps3 similar to ribosomal protein L28	1.44	5.109	1
3766	IPI:IPI00131834.1	Rwdd4a RWD domain-containing protein 4A	1.43	4.787	1
3767	IPI:IPI00788403.1	Abca8b Isoform 2 of ATP-binding cassette sub-family A member 8-B	1.43	5.263	9
3768	IPI:IPI00720208.1	Cpsf7 Isoform 2 of Cleavage and polyadenylation specificity factor subunit 7	1.43	5.411	1
3769	IPI:IPI00119140.2	Mip Lens fiber major intrinsic protein	1.43	3.422	1
3770	IPI:IPI00848420.1	Trim56 tripartite motif-containing protein 56	1.43	0.9537	1
3771	IPI:IPI00124389.1	Chchd4 Mitochondrial intermembrane space import and assembly protein 40	1.43	6.475	1
3772	IPI:IPI00875467.1	Gtf3c1 Putative uncharacterized protein	1.42	0.9476	1
3773	IPI:IPI00128062.1	Snx15 Sorting nexin-15	1.42	8.902	1
3774	IPI:IPI00124103.1	Ccs Copper chaperone for superoxide dismutase	1.42	4.745	1
3775	IPI:IPI00845558.1	9130011E15Rik Isoform 1 of UPF0668 protein C10orf76 homolog	1.42	2.032	1
3776	IPI:IPI00607972.1	Fam40a Isoform 4 of Protein FAM40A	1.41	3.376	1
3777	IPI:IPI00153373.1	Cmb1 Carboxymethylenebutenolidase homolog	1.41	6.531	1
3778	IPI:IPI00845556.1	Mia3 Isoform 2 of Melanoma inhibitory activity protein 3	1.4	0.9685	1
3779	IPI:IPI00848429.1	LOC100046744 similar to Serine/arginine repetitive matrix protein 2	1.39	2.31	1
3780	IPI:IPI00130237.1	Arih2 E3 ubiquitin-protein ligase ARIH2	1.39	3.252	1
3781	IPI:IPI00830899.2	Raf1 Isoform 2 of RAF proto-oncogene serine/threonine-protein kinase	1.39	2.994	1
3782	IPI:IPI00894672.1	Fbxo6 34 kDa protein	1.39	3.729	1
3783	IPI:IPI00310293.3	Bag1 Isoform 1 of BAG family molecular chaperone	1.38	7.606	2

		regulator 1			
3784	IPI:IPI00751129.1	Gpsm1 Isoform 5 of G-protein-signaling modulator 1	1.38	1.56	1
3785	IPI:IPI00876329.2	Fbrs1 Putative uncharacterized protein	1.37	1.161	1
3786	IPI:IPI00118235.1	Mrpl3 39S ribosomal protein L3, mitochondrial	1.37	5.172	1
3787	IPI:IPI00410836.1	Fen1 Putative uncharacterized protein	1.37	4.866	1
3788	IPI:IPI00943405.2	Mttp Isoform 2 of Microsomal triglyceride transfer protein large subunit	1.37	0.6601	1
3789	IPI:IPI00856417.1	Klc3 Uncharacterized protein	1.37	1.98	1
3790	IPI:IPI00458056.3	Ncbp1 Nuclear cap-binding protein subunit 1	1.37	1.266	1
3791	IPI:IPI00120166.1	Slc30a1 Zinc transporter 1	1.36	4.573	1
3792	IPI:IPI00890208.1	Macf1 Isoform 1 of Microtubule-actin cross-linking factor 1	1.36	2.315	7
3793	IPI:IPI00649373.1	Git1 G protein-coupled receptor kinase-interactor 1	1.36	0.9198	1
3794	IPI:IPI00929787.1	Tecr trans-2,3-enoyl-CoA reductase isoform 2	1.35	5.802	1
3795	IPI:IPI00228497.1	Mmab Isoform 2 of Cob(I)yrinic acid a,c-diamide adenosyltransferase, mitochondrial	1.34	5.447	1
3796	IPI:IPI00648010.2	Thoc5 THO complex 5	1.34	2.014	2
3797	IPI:IPI00407389.1	Ogfr Putative uncharacterized protein	1.33	1.961	1
3798	IPI:IPI00129026.1	Polr2c DNA-directed RNA polymerase II subunit RPB3	1.33	7.273	1
3799	IPI:IPI00331707.1	Hmgcs1;LOC100040592 Hydroxymethylglutaryl-CoA synthase, cytoplasmic	1.33	1.731	1
3800	IPI:IPI00473197.1	Pcsk1n IA4	1.33	5.882	1
3801	IPI:IPI00649859.2	Tmem67 meckelin	1.32	1.106	1
3802	IPI:IPI00760095.2	Xpo7 Isoform 2 of Exportin-7	1.32	1.703	1
3803	IPI:IPI00652477.1	Strc Putative uncharacterized protein	1.32	1.547	1
3804	IPI:IPI00308076.3	D3Ertd751e Isoform 1 of UPF0462 protein C4orf33 homolog	1.32	11.98	1
3805	IPI:IPI00322595.9	Tgm4 Protein-glutamine gamma-glutamyltransferase 4	1.32	1.194	1
3806	IPI:IPI00753155.2	Drap1 Uncharacterized protein	1.31	6.79	1
3807	IPI:IPI00230639.1	Ogfr Isoform 2 of Opioid growth factor receptor	1.31	1.843	1
3808	IPI:IPI00117187.1	Chmp1b Charged multivesicular body protein 1b-1	1.31	3.015	1
3809	IPI:IPI00656204.1	Nckap1 Isoform 2 of Nck-associated protein 1	1.3	1.35	1
3810	IPI:IPI00895985.1	Trim25 Tripartite motif protein 25	1.3	4.91	1
3811	IPI:IPI00848600.1	LOC100047480 similar to RIKEN cDNA 2610528K11 gene	1.3	1.513	1
3812	IPI:IPI00265217.4	Rcor1 REST corepressor 1	1.29	3.927	1
3813	IPI:IPI00944057.1	Tars2 threonyl-tRNA synthetase, mitochondrial isoform 3	1.29	3.115	2
3814	IPI:IPI00111388.3	Arr3 Arrestin-C	1.29	8.136	2
3815	IPI:IPI00127903.1	BC016201;Cngb1 cDNA sequence BC016201	1.28	20.25	8

3816	IPI:IPI00109805.1	2310045N01Rik UPF0402 protein	1.28	5.833	1
3817	IPI:IPI00757931.1	Gm7122 similar to ATPase, H ⁺ transporting, lysosomal accessory protein 2	1.28	12.38	2
3818	IPI:IPI00331244.4	Ccdc22 Coiled-coil domain-containing protein 22	1.28	1.116	1
3819	IPI:IPI00930824.1	Folh1 glutamate carboxypeptidase 2 isoform 2	1.27	3.338	2
3820	IPI:IPI00785267.1	Man2b1 lysosomal alpha-mannosidase precursor	1.27	1.382	1
3821	IPI:IPI00844720.1	Magi1 membrane-associated guanylate kinase, WW and PDZ domain-containing protein 1 isoform b	1.27	0.4781	1
3822	IPI:IPI00881016.1	Hint3 19 kDa protein	1.26	10.98	1
3823	IPI:IPI00114819.3	Wdr77 Methylosome protein 50	1.25	2.047	1
3824	IPI:IPI00753603.1	Mpdz Multiple PDZ domain protein	1.25	9.42	1
3825	IPI:IPI00355248.5	mt-Co1 cytochrome c oxidase subunit I	1.24	4.086	3
3826	IPI:IPI00970477.1	Ag1 Protein	1.24	1.446	1
3827	IPI:IPI00133528.1	Golph3 Isoform 1 of Golgi phosphoprotein 3	1.24	6.376	1
3828	IPI:IPI00956970.1	Abi2 Abi2 protein	1.24	2.708	1
3829	IPI:IPI00853687.1	Celf4 Isoform 2 of CUGBP Elav-like family member 4	1.23	1.653	1
3830	IPI:IPI00470086.1	Aars2 Probable alanyl-tRNA synthetase, mitochondrial	1.23	2.143	2
3831	IPI:IPI00761666.2	Vps13c Isoform 2 of Vacuolar protein sorting-associated protein 13C	1.23	1.242	5
3832	IPI:IPI00108998.1	Slc25a27 Uncoupling protein 4	1.23	2.484	1
3833	IPI:IPI00227808.3	Cdv3 Isoform 1 of Protein CDV3	1.22	2.847	1
3834	IPI:IPI00605489.3	Otud7b zinc finger, A20 domain containing 1	1.22	1.786	1
3835	IPI:IPI00467582.3	Mylk Isoform 3 of Myosin light chain kinase, smooth muscle	1.22	1.261	1
3836	IPI:IPI00754414.1	LOC100045576 similar to Cerebral cavernous malformation 2 homolog	1.22	1.878	1
3837	IPI:IPI00124568.3	Exd2 exonuclease 3'-5' domain-containing protein 2	1.21	1.692	2
3838	IPI:IPI00331128.3	Rab8a Ras-related protein Rab-8A	1.2	22.22	5
3839	IPI:IPI00132448.1	Mrps17 28S ribosomal protein S17, mitochondrial	1.19	11.67	2
3840	IPI:IPI00850740.1	LOC100044138 similar to CDCrel-1A1 isoform 2	1.19	5.026	1
3841	IPI:IPI00648472.1	Epn2 Epsin 2	1.19	1.733	1
3842	IPI:IPI00555130.2	Rab3gap2 rab3 GTPase-activating protein non-catalytic subunit	1.19	0.5768	1
3843	IPI:IPI00420658.3	Atp8b1 Probable phospholipid-transporting ATPase IC	1.19	0.7994	1
3844	IPI:IPI00831295.1	1500002020Rik Isoform 1 of Protein SMG9	1.19	3.846	1
3845	IPI:IPI00400192.1	Pum2 Isoform 3 of Pumilio homolog 2	1.18	1.83	1
3846	IPI:IPI00957016.2	AI607873 similar to interferon activated gene 204	1.18	1.227	2
3847	IPI:IPI00120233.1	Gcdh Glutaryl-CoA dehydrogenase, mitochondrial	1.18	5.251	1
3848	IPI:IPI00331084.5	Zim1 zinc finger, imprinted 1	1.17	1.209	1

3849	IPI:IPI00228319.2	Rnf170 Isoform 1 of RING finger protein 170	1.17	5.594	3
3850	IPI:IPI00136170.1	Alox8 Arachidonate 15-lipoxygenase B	1.17	0.8863	1
3851	IPI:IPI00355808.4	Asap2 Isoform 1 of Arf-GAP with SH3 domain, ANK repeat and PH domain-containing protein 2	1.16	2.088	1
3852	IPI:IPI00170394.1	Rbm17 Splicing factor 45	1.15	7.654	3
3853	IPI:IPI00869395.1	Rttm Isoform 2 of Rotatin	1.15	1.163	1
3854	IPI:IPI00830799.2	Kcnq5 potassium voltage-gated channel subfamily KQT member 5 isoform 1	1.15	1.471	2
3855	IPI:IPI00353923.3	Gm10043 Uncharacterized protein	1.15	9.615	1
3856	IPI:IPI00330333.3	Ankrd13a Ankyrin repeat domain-containing protein 13A	1.14	2.721	1
3857	IPI:IPI00225066.8	Rpl36a1;Rpl36a;Rpl36a-ps2;LOC100048339 60S ribosomal protein L36a	1.14	5.66	1
3858	IPI:IPI00133750.1	Mrpl53 39S ribosomal protein L53, mitochondrial	1.14	15.25	1
3859	IPI:IPI00131954.1	D17Wsu104e UPF0556 protein C19orf10 homolog	1.14	9.036	1
3860	IPI:IPI00876528.1	Gtf2i Isoform 5 of General transcription factor II-I	1.13	2.023	2
3861	IPI:IPI00117106.3	1700052N19Rik Isoform 1 of UPF0364 protein C6orf211 homolog	1.13	2.278	1
3862	IPI:IPI00460103.1	Gm10086 Uncharacterized protein	1.13	5.983	1
3863	IPI:IPI00330695.5	Fam129b Niban-like protein 1	1.12	0.9346	1
3864	IPI:IPI00129304.8	Colec12 Collectin-12	1.12	0.9434	1
3865	IPI:IPI00169713.1	2310061C15Rik Uncharacterized protein C16orf61 homolog	1.12	12.66	1
3866	IPI:IPI00895186.1	Aspa Aspartoacylase (Aminoacylase) 2, isoform CRA_b	1.11	3.526	1
3867	IPI:IPI00319111.3	Sdhc Succinate dehydrogenase cytochrome b560 subunit, mitochondrial	1.1	4.734	1
3868	IPI:IPI00659820.3	Qrs1l Glutamyl-tRNA(Gln) amidotransferase subunit A homolog	1.1	3.048	1
3869	IPI:IPI00855003.1	Dkc1 Dyskeratosis congenita 1, dyskerin homolog	1.1	9.655	1
3870	IPI:IPI00380780.7	Ikbkap Elongator complex protein 1	1.09	2.176	3
3871	IPI:IPI00856808.1	Shq1 Isoform 1 of Protein SHQ1 homolog	1.09	1.23	1
3872	IPI:IPI00308993.3	Prf1 Perforin-1	1.09	1.986	1
3873	IPI:IPI00395134.4	Homer1 Isoform 1 of Homer protein homolog 1	1.09	2.732	1
3874	IPI:IPI00133588.5	2010012O05Rik UPF0693 protein C10orf32 homolog	1.09	16.19	1
3875	IPI:IPI00271059.2	Rab4b Ras-related protein Rab-4B	1.07	14.55	3
3876	IPI:IPI00380945.3	2610021K21Rik Isoform 1 of EF-hand domain-containing protein C14orf143 homolog	1.07	4.321	1
3877	IPI:IPI00399498.2	Nav1 Isoform 2 of Neuron navigator 1	1.07	1.433	2
3878	IPI:IPI00321074.3	Vasn Vasorin	1.07	1.783	1
3879	IPI:IPI00621806.2	Camk2a Isoform Alpha CaMKII of Calcium/calmodulin-dependent protein kinase type II subunit alpha	1.06	16.95	8

3880	IPI:IPI00128776.1	Sorcs3 VPS10 domain-containing receptor SorCS3	1.06	0.8203	1
3881	IPI:IPI00857275.1	1700028K03Rik hypothetical protein LOC76421 isoform 2	1.06	6.215	1
3882	IPI:IPI00133640.1	7420416P09Rik hypothetical protein LOC432677	1.04	2.703	1