

## Supplementary table 1. List of ART targets

No.	Unused Score <sup>1</sup>	% Cov (95) <sup>2</sup>	Accession #	Name	Species	Peptides(95%) <sup>3</sup>
1	171.09	28.3	Q14204 DYHC1	Cytoplasmic dynein 1 heavy chain 1	HUMAN	93
2	157.06	50.4	Q13085 ACACA	Acetyl-CoA carboxylase 1	HUMAN	95
3	137.17	43.4	P49327 FAS	Fatty acid synthase	HUMAN	77
4	114.99	57.7	P31327 CPSM	Carbamoyl-phosphate synthase [ammonia], mitochondrial	HUMAN	81
5	113.47	36.5	Q6P2Q9 PRP8	Pre-mRNA-processing-splicing factor 8	HUMAN	63
6	101.29	56.9	P11498 PYC	Pyruvate carboxylase, mitochondrial	HUMAN	82
7	82.54	31.7	P27708 PYR1	CAD protein	HUMAN	45
8	81.76	21.6	Q92616 GCN1	eIF-2-alpha kinase activator GCN1	HUMAN	41
9	78.66	25.7	O75369 FLNB	Filamin-B	HUMAN	46
10	68.85	36.4	Q00610 CLH1	Clathrin heavy chain 1	HUMAN	40
11	59.7	32.5	Q08211 DHX9	ATP-dependent RNA helicase A	HUMAN	31
12	59.29	11.3	Q15149 PLEC	Plectin	HUMAN	28
13	57.25	19.4	O75643 U520	U5 small nuclear ribonucleoprotein 200 kDa helicase	HUMAN	31
14	55.53	31.9	P16615 AT2A2	Sarcoplasmic/endoplasmic reticulum calcium ATPase 2	HUMAN	30
15	50.86	50.5	P49748 ACADV	Very long-chain specific acyl-CoA dehydrogenase, mitochondrial	HUMAN	31
16	50.48	49.5	P40939 ECHA	Trifunctional enzyme subunit alpha, mitochondrial	HUMAN	33
17	46.52	12.5	P15924 DESP	Desmoplakin	HUMAN	25
18	44.91	74.8	P07437 TBB5	Tubulin beta chain	HUMAN	32
19	44.74	36.7	P02786 TFR1	Transferrin receptor protein 1	HUMAN	24
20	42.3	24.1	P41252 SYIC	Isoleucine--tRNA ligase, cytoplasmic	HUMAN	22
21	37.73	25.8	P26640 SYVC	Valine--tRNA ligase	HUMAN	19
22	35.44	26.3	P58107 EPIPL	Epiplakin	HUMAN	21
23	33.06	15.5	Q9NZM1 MYOF	Myoferlin	HUMAN	17
24	31.63	19.2	P42704 LPPRC	Leucine-rich PPR motif-containing protein, mitochondrial	HUMAN	16
25	31.29	62.1	P60709 ACTB	Actin, cytoplasmic 1	HUMAN	23
26	29	20.9	Q7L2E3 DHX30	Putative ATP-dependent RNA helicase DHX30	HUMAN	15
27	28.79	26.7	P08238 HS90B	Heat shock protein HSP 90-beta	HUMAN	14
28	27.97	23.9	P13639 EF2	Elongation factor 2	HUMAN	14
29	27.44	33.4	Q07065 CKAP4	Cytoskeleton-associated protein 4	HUMAN	14
30	27.31	12.4	Q09666 AHNK	Neuroblast differentiation-associated protein AHNK	HUMAN	15
31	26.4	33.7	P10809 CH60	60 kDa heat shock protein, mitochondrial	HUMAN	16
32	26.18	28.6	P05165 PCCA	Propionyl-CoA carboxylase alpha chain, mitochondrial	HUMAN	14
33	24.45	16.2	Q6UB35 C1TM	Monofunctional C1-tetrahydrofolate synthase, mitochondrial	HUMAN	13
34	24.38	53.8	P30519 HMOX2	Heme oxygenase 2	HUMAN	16
35	24.15	16.4	O00410 IPO5	Importin-5	HUMAN	12
36	23.88	34.1	P14618 KPYM	Pyruvate kinase PKM	HUMAN	13
37	22.91	9.3	Q92621 NU205	Nuclear pore complex protein Nup205	HUMAN	13
38	22.35	14.7	P53396 ACLY	ATP-citrate synthase	HUMAN	11
39	22	23.2	Q92945 FUBP2	Far upstream element-binding protein 2	HUMAN	11
40	21.32	36.1	P34897 GLYM	Serine hydroxymethyltransferase, mitochondrial	HUMAN	12
41	20.21	14.4	P53621 COPA	Coatomer subunit alpha	HUMAN	10
42	20	23.2	P50990 TCPQ	T-complex protein 1 subunit theta	HUMAN	10
43	18	19.9	P02545 LMNA	Prelamin-A/C	HUMAN	9

44	17.89	21.1	Q9BQ52 RNZ2	Zinc phosphodiesterase ELAC protein 2	HUMAN	10
45	17.79	34.1	P00558 PGK1	Phosphoglycerate kinase 1	HUMAN	9
46	17.79	4.4	Q5T4S7 UBR4	E3 ubiquitin-protein ligase UBR4	HUMAN	11
47	17.65	20.7	Q5T9A4 ATD3B	ATPase family AAA domain-containing protein 3B	HUMAN	9
48	17.57	46.4	Q15365 PCBP1	Poly(rC)-binding protein 1	HUMAN	9
49	17	39.1	P63244 RACK1	Receptor of activated protein C kinase 1	HUMAN	9
50	16.65	54.6	Q13162 PRDX4	Peroxiredoxin-4	HUMAN	8
51	16	24.3	Q9Y6M5 ZNT1	Zinc transporter 1	HUMAN	8
52	15.98	44.9	Q9Y6C9 MTCH2	Mitochondrial carrier homolog 2	HUMAN	9
53	15.9	7.8	P35579 MYH9	Myosin-9	HUMAN	9
54	15.31	15.1	P42166 LAP2A	Lamina-associated polypeptide 2, isoform alpha	HUMAN	8
55	15.04	8.3	P07814 SYEP	Bifunctional glutamate/proline--tRNA ligase	HUMAN	7
56	14.6	19.2	Q92841 DDX17	Probable ATP-dependent RNA helicase DDX17	HUMAN	7
57	14.43	35.2	P05141 ADT2	ADP/ATP translocase 2	HUMAN	11
58	14.4	9.2	P49790 NU153	Nuclear pore complex protein Nup153	HUMAN	7
59	14.28	45.8	P09601 HMOX1	Heme oxygenase 1	HUMAN	9
60	14.22	23	P49411 EFTU	Elongation factor Tu, mitochondrial	HUMAN	9
61	14.18	18.9	Q96RQ3 MCCA	Methylcrotonoyl-CoA carboxylase subunit alpha, mitochondrial	HUMAN	7
62	14	15.8	P38646 GRP75	Stress-70 protein, mitochondrial	HUMAN	9
63	14	14.1	Q96RP9 EFGM	Elongation factor G, mitochondrial	HUMAN	7
64	14	22	P36578 RL4	60S ribosomal protein L4	HUMAN	7
65	13.97	16.4	P11142 HSP7C	Heat shock cognate 71 kDa protein	HUMAN	7
66	13.74	17.5	O75844 FACE1	CAAX prenyl protease 1 homolog	HUMAN	8
67	13.64	4.7	P49792 RBP2	E3 SUMO-protein ligase RanBP2	HUMAN	8
68	13.55	12.7	P50416 CPT1A	Carnitine O-palmitoyltransferase 1, liver isoform	HUMAN	8
69	13.07	17.8	P08670 VIME	Vimentin	HUMAN	7
70	12.53	9.4	P05023 AT1A1	Sodium/potassium-transporting ATPase subunit alpha-1	HUMAN	7
71	12.44	13.2	P54886 P5CS	Delta-1-pyrroline-5-carboxylate synthase	HUMAN	6
72	12.35	21.1	P07237 PDIA1	Protein disulfide-isomerase	HUMAN	7
73	12.28	33.7	P04406 G3P	Glyceraldehyde-3-phosphate dehydrogenase	HUMAN	7
74	12	14.4	P36776 LONM	Lon protease homolog, mitochondrial	HUMAN	6
75	12	18.4	P41091 IF2G	Eukaryotic translation initiation factor 2 subunit 3	HUMAN	8
76	12	49.1	P62937 PPIA	Peptidyl-prolyl cis-trans isomerase A	HUMAN	6
77	12	25.3	Q32P51 RA1L2	Heterogeneous nuclear ribonucleoprotein A1-like 2	HUMAN	6
78	11.94	22.5	Q9H857 NT5D2	5'-nucleotidase domain-containing protein 2	HUMAN	6
79	11.9	10.1	O95373 IPO7	Importin-7	HUMAN	7
80	11.64	25.6	P06733 ENOA	Alpha-enolase	HUMAN	7
81	11.46	17.4	P78371 TCPB	T-complex protein 1 subunit beta	HUMAN	6
82	11.45	38.7	Q06830 PRDX1	Peroxiredoxin-1	HUMAN	6
83	11.36	5.2	Q12789 TF3C1	General transcription factor 3C polypeptide 1	HUMAN	6
84	10.98	13.5	P28288 ABCD3	ATP-binding cassette sub-family D member 3	HUMAN	6
85	10.94	26.9	P45880 VDAC2	Voltage-dependent anion-selective channel protein 2	HUMAN	6
86	10.88	19.3	P29401 TKT	Transketolase	HUMAN	5
87	10.77	5.2	P46013 KI67	Proliferation marker protein Ki-67	HUMAN	6
88	10.67	16	Q16881 TRXR1	Thioredoxin reductase 1, cytoplasmic	HUMAN	5
89	10.64	7.3	O60306 AQR	Intron-binding protein aquarius	HUMAN	6
90	10.6	17.1	Q00325 MPCP	Phosphate carrier protein, mitochondrial	HUMAN	7
91	10.28	13.5	P08195 4F2	4F2 cell-surface antigen heavy chain	HUMAN	6
92	10.23	25.4	P53701 CCHL	Cytochrome c-type heme lyase	HUMAN	6
93	10.09	10	P43304 GPDH	Glycerol-3-phosphate dehydrogenase, mitochondrial	HUMAN	5

94	10.05	9.2	O94901 SUN1	SUN domain-containing protein 1	HUMAN	6
95	10	10.2	P11021 GRP78	78 kDa glucose-regulated protein	HUMAN	5
96	10	14.3	O43175 SERA	D-3-phosphoglycerate dehydrogenase	HUMAN	5
97	10	14.8	P23526 SAHH	Adenosylhomocysteinase	HUMAN	5
98	10	11.4	Q00839 HNRPU	Heterogeneous nuclear ribonucleoprotein U	HUMAN	8
99	9.82	10.4	P46977 STT3A	Dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit 3	HUMAN	5
100	9.69	13.1	P30101 PDIA3	Protein disulfide-isomerase A3	HUMAN	5
101	9.61	7.8	P55265 DSRAD	Double-stranded RNA-specific adenosine deaminase	HUMAN	5
102	9.54	9	O00411 RPOM	DNA-directed RNA polymerase, mitochondrial	HUMAN	6
103	9.49	2.2	O75691 UTP20	Small subunit processome component 20 homolog	HUMAN	5
104	8.85	29.7	P30048 PRDX3	Thioredoxin-dependent peroxide reductase, mitochondrial	HUMAN	6
105	8.67	9.9	Q13200 PSMD2	26S proteasome non-ATPase regulatory subunit 2	HUMAN	4
106	8.49	13.4	Q9H845 ACAD9	Acyl-CoA dehydrogenase family member 9, mitochondrial	HUMAN	5
107	8.2	5.3	Q14997 PSME4	Proteasome activator complex subunit 4	HUMAN	4
108	8.16	18.7	Q9H5Q4 TFB2M	Dimethyladenosine transferase 2, mitochondrial	HUMAN	6
109	8.13	16.2	Q8TB36 GDAP1	Ganglioside-induced differentiation-associated protein 1	HUMAN	4
110	8.13	50.7	O14880 MGST3	Microsomal glutathione S-transferase 3	HUMAN	5
111	8.08	16	P00338 LDHA	L-lactate dehydrogenase A chain	HUMAN	4
112	8.06	15	O00571 DDX3X	ATP-dependent RNA helicase DDX3X	HUMAN	4
113	8.01	6.6	O43707 ACTN4	Alpha-actinin-4	HUMAN	4
114	8	8.5	Q12931 TRAP1	Heat shock protein 75 kDa, mitochondrial	HUMAN	5
115	8	13.2	P12268 IMDH2	Inosine-5'-monophosphate dehydrogenase 2	HUMAN	4
116	8	24.4	Q02543 RL18A	60S ribosomal protein L18a	HUMAN	4
117	7.9	7.3	O75694 NU155	Nuclear pore complex protein Nup155	HUMAN	5
118	7.83	7.9	Q01813 PFKAP	ATP-dependent 6-phosphofructokinase, platelet type	HUMAN	4
119	7.78	10.9	P48643 TCPE	T-complex protein 1 subunit epsilon	HUMAN	4
120	7.68	22.1	P31943 HNRH1	Heterogeneous nuclear ribonucleoprotein H	HUMAN	4
121	7.68	3.8	Q8TEQ6 GEMI5	Gem-associated protein 5	HUMAN	4
122	7.57	13.8	P60842 IF4A1	Eukaryotic initiation factor 4A-I	HUMAN	4
123	7.31	8.3	P10515 ODP2	Dihydrolipoyllysine-residue acetyltransferase component of pyruvate dehydrogenase complex	HUMAN	4
124	7.2	13.7	Q9BZE1 RM37	39S ribosomal protein L37, mitochondrial	HUMAN	4
125	7.03	6.5	Q15393 SF3B3	Splicing factor 3B subunit 3	HUMAN	3
126	7.01	10.3	P03915 NU5M	NADH-ubiquinone oxidoreductase chain 5	HUMAN	4
127	6.79	15	P07195 LDHB	L-lactate dehydrogenase B chain	HUMAN	4
128	6.59	12.5	P61978 HNRPK	Heterogeneous nuclear ribonucleoprotein K	HUMAN	3
129	6.51	17.9	P30041 PRDX6	Peroxiredoxin-6	HUMAN	4
130	6.49	13.4	Q5TFE4 NT5D1	5'-nucleotidase domain-containing protein 1	HUMAN	4
131	6.46	27.7	P18621 RL17	60S ribosomal protein L17	HUMAN	4
132	6.41	15	P13196 HEM1	5-aminolevulinic acid synthase, nonspecific, mitochondrial	HUMAN	4
133	6.4	11.1	P31040 SDHA	Succinate dehydrogenase [ubiquinone] flavoprotein subunit, mitochondrial	HUMAN	3
134	6.39	11.8	Q92552 RT27	28S ribosomal protein S27, mitochondrial	HUMAN	3
135	6.33	13.3	O14832 PAHX	Phytanoyl-CoA dioxygenase, peroxisomal	HUMAN	4
136	6.33	3.4	Q93008 USP9X	Probable ubiquitin carboxyl-terminal hydrolase FAF-X	HUMAN	4
137	6.24	14.1	Q9H7Z7 PGES2	Prostaglandin E synthase 2	HUMAN	4
138	6.23	14.7	O75616 ERAL1	GTPase Era, mitochondrial	HUMAN	3
139	6.08	20.6	P04075 ALDOA	Fructose-bisphosphate aldolase A	HUMAN	3
140	6.06	12.8	P26641 EF1G	Elongation factor 1-gamma	HUMAN	3
141	6.05	4.9	Q86VP6 CAND1	Cullin-associated NEDD8-dissociated protein 1	HUMAN	3
142	6.05	19.4	Q9Y277 VDAC3	Voltage-dependent anion-selective channel protein 3	HUMAN	3
143	6.04	5.2	P56192 SYMC	Methionine--tRNA ligase, cytoplasmic	HUMAN	3

144	6.03	17.4	Q07021 C1QBP	Complement component 1 Q subcomponent-binding protein, mitoch	HUMAN	3
145	6.02	14.1	Q9Y2S7 PDIP2	Polymerase delta-interacting protein 2	HUMAN	3
146	6	44.5	O43169 CYB5B	Cytochrome b5 type B	HUMAN	5
147	6	6.8	P05091 ALDH2	Aldehyde dehydrogenase, mitochondrial	HUMAN	3
148	6	6.4	P53985 MOT1	Monocarboxylate transporter 1	HUMAN	3
149	6	15.7	P62753 RS6	40S ribosomal protein S6	HUMAN	3
150	6	67.4	P68371 TBB4B	Tubulin beta-4B chain	HUMAN	28
151	6	31.4	P07737 PROF1	Profilin-1	HUMAN	3
152	6	16.2	P61313 RL15	60S ribosomal protein L15	HUMAN	3
153	6	8.9	Q15084 PDIA6	Protein disulfide-isomerase A6	HUMAN	3
154	5.96	6.4	P42892 ECE1	Endothelin-converting enzyme 1	HUMAN	3
155	5.91	8.3	Q14974 IMB1	Importin subunit beta-1	HUMAN	4
156	5.89	4.2	Q5ST30 SYVM	Valine--tRNA ligase, mitochondrial	HUMAN	3
157	5.86	3.9	Q14980 NUMA1	Nuclear mitotic apparatus protein 1	HUMAN	3
158	5.85	7	Q13838 DX39B	Spliceosome RNA helicase DDX39B	HUMAN	3
159	5.81	11.7	P49368 TCPG	T-complex protein 1 subunit gamma	HUMAN	3
160	5.6	5.5	Q9UHI6 DDX20	Probable ATP-dependent RNA helicase DDX20	HUMAN	3
161	5.59	9.3	Q9BT22 ALG1	Chitobiosyldiphosphodolichol beta-mannosyltransferase	HUMAN	3
162	5.55	7	Q16822 PCKGM	Phosphoenolpyruvate carboxykinase [GTP], mitochondrial	HUMAN	3
163	5.46	9.1	Q16850 CP51A	Lanosterol 14-alpha demethylase	HUMAN	3
164	5.39	28.5	P27635 RL10	60S ribosomal protein L10	HUMAN	6
165	5.37	22.3	P46776 RL27A	60S ribosomal protein L27a	HUMAN	3
166	5.28	7	P06576 ATPB	ATP synthase subunit beta, mitochondrial	HUMAN	3
167	5.25	8.8	P14625 ENPL	Endoplasmic	HUMAN	4
168	5.24	11.9	P31930 QCR1	Cytochrome b-c1 complex subunit 1, mitochondrial	HUMAN	3
169	5.18	12.8	P36542 ATPG	ATP synthase subunit gamma, mitochondrial	HUMAN	3
170	5.13	13.1	P51398 RT29	28S ribosomal protein S29, mitochondrial	HUMAN	4
171	5.11	12.6	P14866 HNRPL	Heterogeneous nuclear ribonucleoprotein L	HUMAN	3
172	5.07	3.3	Q9NQC3 RTN4	Reticulon-4	HUMAN	3
173	5.02	18.3	P07355 ANXA2	Annexin A2	HUMAN	3
174	4.98	2	O95714 HERC2	E3 ubiquitin-protein ligase HERC2	HUMAN	3
175	4.89	4.5	P11388 TOP2A	DNA topoisomerase 2-alpha	HUMAN	3
176	4.85	38.1	Q71UM5 RS27L	40S ribosomal protein S27-like	HUMAN	3
177	4.81	11	P21796 VDAC1	Voltage-dependent anion-selective channel protein 1	HUMAN	3
178	4.62	34.8	Q9BUF5 TBB6	Tubulin beta-6 chain	HUMAN	15
179	4.57	7.5	Q9UHG3 PCYOX	Prenylcysteine oxidase 1	HUMAN	3
180	4.56	16.5	Q99714 HCD2	3-hydroxyacyl-CoA dehydrogenase type-2	HUMAN	2
181	4.53	7.5	Q16891 MIC60	MICOS complex subunit MIC60	HUMAN	3
182	4.5	15.3	Q8TED1 GPX8	Probable glutathione peroxidase 8	HUMAN	3
183	4.46	5.3	Q9BW92 SYTM	Threonine--tRNA ligase, mitochondrial	HUMAN	3
184	4.46	34.3	P23528 COF1	Cofilin-1	HUMAN	2
185	4.4	18	Q8NHW5 RLA0L	60S acidic ribosomal protein P0-like	HUMAN	2
186	4.38	12.6	P08574 CY1	Cytochrome c1, heme protein, mitochondrial	HUMAN	3
187	4.37	13.5	Q9NX40 OCAD1	OCIA domain-containing protein 1	HUMAN	3
188	4.35	1.4	Q9Y4A5 TRRAP	Transformation/transcription domain-associated protein	HUMAN	2
189	4.34	7.6	Q13310 PABP4	Polyadenylate-binding protein 4	HUMAN	2
190	4.3	5.3	Q9BUJ2 HNRL1	Heterogeneous nuclear ribonucleoprotein U-like protein 1	HUMAN	2
191	4.27	15.9	P52597 HNRPF	Heterogeneous nuclear ribonucleoprotein F	HUMAN	4
192	4.22	15	Q9UMS0 NFU1	NFU1 iron-sulfur cluster scaffold homolog, mitochondrial	HUMAN	2
193	4.16	30.5	P63241 IF5A1	Eukaryotic translation initiation factor 5A-1	HUMAN	2

194	4.14	14.8	P17844 DDX5	Probable ATP-dependent RNA helicase DDX5	HUMAN	4
195	4.13	9.6	P55072 TERA	Transitional endoplasmic reticulum ATPase	HUMAN	3
196	4.11	2.1	Q8N3C0 ASCC3	Activating signal cointegrator 1 complex subunit 3	HUMAN	2
197	4.1	8.8	Q6PIU2 NCEH1	Neutral cholesterol ester hydrolase 1	HUMAN	2
198	4.08	15.1	P08559 ODPA	Pyruvate dehydrogenase E1 component subunit alpha, somatic form,	HUMAN	3
199	4.08	7.6	Q14566 MCM6	DNA replication licensing factor MCM6	HUMAN	3
200	4.07	7.5	P26639 SYTC	Threonine--tRNA ligase, cytoplasmic	HUMAN	2
201	4.02	6.5	Q9P258 RCC2	Protein RCC2	HUMAN	2
202	4.01	7.2	P00367 DHE3	Glutamate dehydrogenase 1, mitochondrial	HUMAN	2
203	4.01	6.2	Q96920 TBRG4	Protein TBRG4	HUMAN	2
204	4.01	13.9	P46781 RS9	40S ribosomal protein S9	HUMAN	2
205	4	22.9	P10599 THIO	Thioredoxin	HUMAN	2
206	4	9.1	P32322 P5CR1	Pyrroline-5-carboxylate reductase 1, mitochondrial	HUMAN	2
207	4	4.4	P34932 HSP74	Heat shock 70 kDa protein 4	HUMAN	2
208	4	3.1	Q12906 ILF3	Interleukin enhancer-binding factor 3	HUMAN	2
209	4	4.1	Q5JRX3 PREP	Presequence protease, mitochondrial	HUMAN	2
210	4	44.8	Q96IX5 USMG5	Up-regulated during skeletal muscle growth protein 5	HUMAN	2
211	4	1.5	Q9H583 HEAT1	HEAT repeat-containing protein 1	HUMAN	2
212	4	15.3	O15258 RER1	Protein RER1	HUMAN	2
213	4	2.2	O95197 RTN3	Reticulon-3	HUMAN	2
214	4	33.7	P04080 CYTB	Cystatin-B	HUMAN	2
215	4	12.7	P04792 HSPB1	Heat shock protein beta-1	HUMAN	2
216	4	10.7	P21266 GSTM3	Glutathione S-transferase Mu 3	HUMAN	2
217	4	11.3	P40429 RL13A	60S ribosomal protein L13a	HUMAN	2
218	4	5.2	P43243 MATR3	Matrin-3	HUMAN	2
219	4	9.8	P46777 RL5	60S ribosomal protein L5	HUMAN	2
220	4	12.9	P62913 RL11	60S ribosomal protein L11	HUMAN	2
221	4	32.9	P63173 RL38	60S ribosomal protein L38	HUMAN	2
222	4	28.2	P69905 HBA	Hemoglobin subunit alpha	HUMAN	2
223	4	9.2	P84098 RL19	60S ribosomal protein L19	HUMAN	2
224	4	13.8	Q07020 RL18	60S ribosomal protein L18	HUMAN	2
225	4	15.9	Q15366 PCBP2	Poly(rC)-binding protein 2	HUMAN	4
226	4	6.1	Q16658 FSCN1	Fascin	HUMAN	2
227	4	15.9	Q6UW68 TM205	Transmembrane protein 205	HUMAN	2
228	4	48.6	Q9BQE3 TBA1C	Tubulin alpha-1C chain	HUMAN	17
229	4	3.2	Q9NZB2 F120A	Constitutive coactivator of PPAR-gamma-like protein 1	HUMAN	2
230	3.96	3.7	Q03518 TAP1	Antigen peptide transporter 1	HUMAN	2
231	3.96	3.7	Q16678 CP1B1	Cytochrome P450 1B1	HUMAN	2
232	3.96	5.6	Q96GW9 SYMM	Methionine--tRNA ligase, mitochondrial	HUMAN	2
233	3.93	4	Q02218 ODO1	2-oxoglutarate dehydrogenase, mitochondrial	HUMAN	2
234	3.92	4.6	Q92685 ALG3	Dol-P-Man:Man(5)GlcNAc(2)-PP-Dol alpha-1,3-mannosyltransferase	HUMAN	2
235	3.9	5.9	Q99832 TCPH	T-complex protein 1 subunit eta	HUMAN	2
236	3.89	9.4	Q9NYP7 ELOV5	Elongation of very long chain fatty acids protein 5	HUMAN	2
237	3.85	20.3	Q5RI15 COX20	Cytochrome c oxidase protein 20 homolog	HUMAN	2
238	3.84	25.7	P15531 NDKA	Nucleoside diphosphate kinase A	HUMAN	3
239	3.74	17.4	P25398 RS12	40S ribosomal protein S12	HUMAN	3
240	3.73	7.5	Q9NSE4 SYIM	Isoleucine--tRNA ligase, mitochondrial	HUMAN	2
241	3.66	13.7	P47756 CAPZB	F-actin-capping protein subunit beta	HUMAN	2
242	3.64	14.6	P60900 PSA6	Proteasome subunit alpha type-6	HUMAN	2
243	3.6	11.6	P22626 ROA2	Heterogeneous nuclear ribonucleoproteins A2/B1	HUMAN	3

244	3.6	3.1	Q9BQG0 MBB1A	Myb-binding protein 1A	HUMAN	2
245	3.55	6.6	P52292 IMA1	Importin subunit alpha-1	HUMAN	3
246	3.5	8.4	O14980 XPO1	Exportin-1	HUMAN	2
247	3.48	4.4	P55084 ECHB	Trifunctional enzyme subunit beta, mitochondrial	HUMAN	2
248	3.44	4.5	O75027 ABCB7	ATP-binding cassette sub-family B member 7, mitochondrial	HUMAN	2
249	3.42	1.5	P35573 GDE	Glycogen debranching enzyme	HUMAN	2
250	3.38	15	Q86YH6 DLP1	Decaprenyl-diphosphate synthase subunit 2	HUMAN	2
251	3.34	2.3	A5YKK6 CNOT1	CCR4-NOT transcription complex subunit 1	HUMAN	2
252	3.28	5.8	Q7KZF4 SND1	Staphylococcal nuclease domain-containing protein 1	HUMAN	2
253	3.27	10.3	P09001 RM03	39S ribosomal protein L3, mitochondrial	HUMAN	2
254	3.21	13.3	Q9H2D1 MFTC	Mitochondrial folate transporter/carrier	HUMAN	2
255	3.19	51.3	P62888 RL30	60S ribosomal protein L30	HUMAN	2
256	3.17	3.1	Q92598 HS105	Heat shock protein 105 kDa	HUMAN	2
257	3.13	4.1	P31948 STIP1	Stress-induced-phosphoprotein 1	HUMAN	2
258	3.12	14.4	P62341 SELT	Selenoprotein T	HUMAN	2
259	3.1	0.8	Q9NU22 MDN1	Midasin	HUMAN	2
260	3.09	6.2	Q3ZCQ8 TIM50	Mitochondrial import inner membrane translocase subunit TIM50	HUMAN	2
261	3.08	4.9	P07339 CATD	Cathepsin D	HUMAN	2
262	3.08	12.9	Q02878 RL6	60S ribosomal protein L6	HUMAN	3
263	3.07	3.9	O15091 MRRP3	Mitochondrial ribonuclease P protein 3	HUMAN	2
264	3.05	4.9	Q16576 RBBP7	Histone-binding protein RBBP7	HUMAN	2
265	3.04	5.1	P09874 PARP1	Poly [ADP-ribose] polymerase 1	HUMAN	2
266	3.04	7.6	P25705 ATPA	ATP synthase subunit alpha, mitochondrial	HUMAN	2
267	3.04	6.4	P53007 TXTP	Tricarboxylate transport protein, mitochondrial	HUMAN	2
268	3.01	4.3	P30876 RPB2	DNA-directed RNA polymerase II subunit RPB2	HUMAN	2
269	2.97	10.2	P08243 ASNS	Asparagine synthetase [glutamine-hydrolyzing]	HUMAN	2
270	2.97	7.2	Q9H7H0 MET17	Methyltransferase-like protein 17, mitochondrial	HUMAN	2
271	2.97	4	O43143 DHX15	Pre-mRNA-splicing factor ATP-dependent RNA helicase DHX15	HUMAN	1
272	2.96	5.8	P00505 AATM	Aspartate aminotransferase, mitochondrial	HUMAN	2
273	2.95	11.1	P42765 THIM	3-ketoacyl-CoA thiolase, mitochondrial	HUMAN	2
274	2.93	2.4	P11586 C1TC	C-1-tetrahydrofolate synthase, cytoplasmic	HUMAN	2
275	2.93	6.9	Q9BXW7 CECR5	Cat eye syndrome critical region protein 5	HUMAN	2
276	2.89	19.1	P83731 RL24	60S ribosomal protein L24	HUMAN	2
277	2.89	4.5	P13010 XRCC5	X-ray repair cross-complementing protein 5	HUMAN	2
278	2.89	1.7	Q14643 ITPR1	Inositol 1,4,5-trisphosphate receptor type 1	HUMAN	1
279	2.87	3.3	P22314 UBA1	Ubiquitin-like modifier-activating enzyme 1	HUMAN	2
280	2.79	5.1	P17812 PYRG1	CTP synthase 1	HUMAN	2
281	2.78	7.2	P55209 NP1L1	Nucleosome assembly protein 1-like 1	HUMAN	2
282	2.76	24.6	P62244 RS15A	40S ribosomal protein S15a	HUMAN	1
283	2.62	0.9	Q7Z6Z7 HUWE1	E3 ubiquitin-protein ligase HUWE1	HUMAN	1
284	2.61	6.9	P50991 TCPD	T-complex protein 1 subunit delta	HUMAN	2
285	2.59	8.2	Q9NZJ7 MTCH1	Mitochondrial carrier homolog 1	HUMAN	1
286	2.59	2.1	P52701 MSH6	DNA mismatch repair protein Msh6	HUMAN	1
287	2.56	7.4	P17987 TCPA	T-complex protein 1 subunit alpha	HUMAN	2
288	2.52	7.7	Q96SZ6 CK5P1	CDK5 regulatory subunit-associated protein 1	HUMAN	1
289	2.48	6	P40227 TCPZ	T-complex protein 1 subunit zeta	HUMAN	2
290	2.48	4.4	Q93009 UBP7	Ubiquitin carboxyl-terminal hydrolase 7	HUMAN	1
291	2.48	3.7	Q96I24 FUBP3	Far upstream element-binding protein 3	HUMAN	2
292	2.45	8.7	P0DMV9 HS71B	Heat shock 70 kDa protein 1B	HUMAN	3
293	2.43	2.7	Q9HAV4 XPO5	Exportin-5	HUMAN	1

294	2.42	4.6	Q9H0A0 NAT10	RNA cytidine acetyltransferase	HUMAN	1
295	2.41	4	Q13263 TIF1B	Transcription intermediary factor 1-beta	HUMAN	1
296	2.36	7.6	Q99536 VAT1	Synaptic vesicle membrane protein VAT-1 homolog	HUMAN	2
297	2.33	2.7	P27816 MAP4	Microtubule-associated protein 4	HUMAN	2
298	2.31	4.4	Q8NBS9 TXND5	Thioredoxin domain-containing protein 5	HUMAN	1
299	2.3	5.4	Q5JTH9 RRP12	RRP12-like protein	HUMAN	1
300	2.29	7.5	P52272 HNRPM	Heterogeneous nuclear ribonucleoprotein M	HUMAN	1
301	2.29	1.5	Q9ULT8 HECD1	E3 ubiquitin-protein ligase HECTD1	HUMAN	1
302	2.28	4.7	Q96TA2 YME1L1	ATP-dependent zinc metalloprotease YME1L1	HUMAN	1
303	2.28	4.4	O15371 EIF3D	Eukaryotic translation initiation factor 3 subunit D	HUMAN	1
304	2.26	7.5	Q96AG4 LRC59	Leucine-rich repeat-containing protein 59	HUMAN	1
305	2.26	3.9	Q96EY7 PTCD3	Pentatricopeptide repeat domain-containing protein 3, mitochondria	HUMAN	1
306	2.23	7	Q9ULV4 COR1C	Coronin-1C	HUMAN	1
307	2.15	5	Q9Y305 ACOT9	Acyl-coenzyme A thioesterase 9, mitochondrial	HUMAN	1
308	2.14	4.6	Q99797 MIPEP	Mitochondrial intermediate peptidase	HUMAN	1
309	2.13	8.1	P28331 NDUS1	NADH-ubiquinone oxidoreductase 75 kDa subunit, mitochondrial	HUMAN	1
310	2.12	13	P62249 RS16	40S ribosomal protein S16	HUMAN	2
311	2.09	7.1	P08754 GNAI3	Guanine nucleotide-binding protein G(k) subunit alpha	HUMAN	1
312	2.09	10.2	P09493 TPM1	Tropomyosin alpha-1 chain	HUMAN	1
313	2.07	9.7	P62826 RAN	GTP-binding nuclear protein Ran	HUMAN	1
314	2.07	4.2	P35610 SOAT1	Sterol O-acyltransferase 1	HUMAN	1
315	2.06	4.8	O60506 HNRPQ	Heterogeneous nuclear ribonucleoprotein Q	HUMAN	1
316	2.05	4	P13667 PDIA4	Protein disulfide-isomerase A4	HUMAN	1
317	2.03	21.9	P62987 RL40	Ubiquitin-60S ribosomal protein L40	HUMAN	2
318	2.02	10.2	P24539 AT5F1	ATP synthase F(0) complex subunit B1, mitochondrial	HUMAN	2
319	2.02	4.3	P47897 SYQ	Glutamine--tRNA ligase	HUMAN	1
320	2.02	27	Q14061 COX17	Cytochrome c oxidase copper chaperone	HUMAN	3
321	2.02	2.8	O94906 PRP6	Pre-mRNA-processing factor 6	HUMAN	1
322	2.02	4.5	Q15392 DHC24	Delta(24)-sterol reductase	HUMAN	1
323	2.02	3.4	Q9BSJ5 CQ080	Uncharacterized protein C17orf80	HUMAN	1
324	2	4.2	O00170 AIP	AH receptor-interacting protein	HUMAN	1
325	2	4.3	O00217 NDUS8	NADH dehydrogenase [ubiquinone] iron-sulfur protein 8, mitochondr	HUMAN	1
326	2	12.4	O00483 NDUA4	Cytochrome c oxidase subunit NDUF4	HUMAN	1
327	2	4.3	O75439 MPPB	Mitochondrial-processing peptidase subunit beta	HUMAN	1
328	2	3.3	O75600 KBL	2-amino-3-ketobutyrate coenzyme A ligase, mitochondrial	HUMAN	1
329	2	6.1	O75608 LYPA1	Acyl-protein thioesterase 1	HUMAN	1
330	2	3.1	O94925 GLSK	Glutaminase kidney isoform, mitochondrial	HUMAN	1
331	2	6.9	P12081 SYHC	Histidine--tRNA ligase, cytoplasmic	HUMAN	1
332	2	4.5	P18754 RCC1	Regulator of chromosome condensation	HUMAN	1
333	2	3.1	P19367 HXK1	Hexokinase-1	HUMAN	1
334	2	2	P27824 CALX	Calnexin	HUMAN	1
335	2	2.7	P30837 AL1B1	Aldehyde dehydrogenase X, mitochondrial	HUMAN	1
336	2	3	P41250 SYG	Glycine--tRNA ligase	HUMAN	1
337	2	4.5	P49821 NDUV1	NADH dehydrogenase [ubiquinone] flavoprotein 1, mitochondrial	HUMAN	1
338	2	4.6	P53597 SUCA	Succinate--CoA ligase [ADP/GDP-forming] subunit alpha, mitochondri	HUMAN	1
339	2	13.7	P61604 CH10	10 kDa heat shock protein, mitochondrial	HUMAN	1
340	2	8.6	P62263 RS14	40S ribosomal protein S14	HUMAN	1
341	2	24.7	P63167 DYL1	Dynein light chain 1, cytoplasmic	HUMAN	1
342	2	41.1	P68366 TBA4A	Tubulin alpha-4A chain	HUMAN	15
343	2	1.4	Q08J23 NSUN2	tRNA (cytosine(34)-C(5))-methyltransferase	HUMAN	1

344	2	1.2	Q13423 NNTM	NAD(P) transhydrogenase, mitochondrial	HUMAN	1
345	2	2.7	Q3SXM5 HSDL1	Inactive hydroxysteroid dehydrogenase-like protein 1	HUMAN	1
346	2	5.8	Q567V2 M17L2	Mpv17-like protein 2	HUMAN	1
347	2	2.6	Q7Z434 MAVS	Mitochondrial antiviral-signaling protein	HUMAN	1
348	2	16.9	Q8N4Q1 MIA40	Mitochondrial intermembrane space import and assembly protein 40	HUMAN	1
349	2	6	Q96TC7 RMD3	Regulator of microtubule dynamics protein 3	HUMAN	1
350	2	7.4	Q9BYC9 RM20	39S ribosomal protein L20, mitochondrial	HUMAN	1
351	2	3.5	Q9NP81 SYSM	Serine--tRNA ligase, mitochondrial	HUMAN	1
352	2	2.6	Q9NVV4 PAPD1	Poly(A) RNA polymerase, mitochondrial	HUMAN	1
353	2	3.9	Q9P035 HACD3	Very-long-chain (3R)-3-hydroxyacyl-CoA dehydratase 3	HUMAN	1
354	2	3.1	O00541 PESC	Pescadillo homolog	HUMAN	1
355	2	4.6	O14828 SCAM3	Secretory carrier-associated membrane protein 3	HUMAN	1
356	2	4.8	O15260 SURF4	Surfeit locus protein 4	HUMAN	1
357	2	6.2	O60831 PRAF2	PRA1 family protein 2	HUMAN	1
358	2	2.2	O94919 ENDD1	Endonuclease domain-containing 1 protein	HUMAN	1
359	2	2.4	P00734 THRB	Prothrombin	HUMAN	1
360	2	0.2	P04114 APOB	Apolipoprotein B-100	HUMAN	1
361	2	3.6	P07910 HNRPC	Heterogeneous nuclear ribonucleoproteins C1/C2	HUMAN	1
362	2	8.1	P08708 RS17	40S ribosomal protein S17	HUMAN	1
363	2	3.8	P15880 RS2	40S ribosomal protein S2	HUMAN	1
364	2	0.8	P21359 NF1	Neurofibromin	HUMAN	1
365	2	4.3	P26373 RL13	60S ribosomal protein L13	HUMAN	1
366	2	8.5	P29692 EF1D	Elongation factor 1-delta	HUMAN	1
367	2	9.1	P30050 RL12	60S ribosomal protein L12	HUMAN	1
368	2	10.2	P35268 RL22	60S ribosomal protein L22	HUMAN	1
369	2	9.4	P46778 RL21	60S ribosomal protein L21	HUMAN	1
370	2	2.7	P48651 PTSS1	Phosphatidylserine synthase 1	HUMAN	1
371	2	6.3	P50395 GDIB	Rab GDP dissociation inhibitor beta	HUMAN	1
372	2	5.6	P50914 RL14	60S ribosomal protein L14	HUMAN	1
373	2	12.7	P55795 HNRH2	Heterogeneous nuclear ribonucleoprotein H2	HUMAN	3
374	2	4.9	P57088 TMM33	Transmembrane protein 33	HUMAN	1
375	2	5.3	P60891 PRPS1	Ribose-phosphate pyrophosphokinase 1	HUMAN	1
376	2	5.3	P61158 ARP3	Actin-related protein 3	HUMAN	1
377	2	7.7	P62266 RS23	40S ribosomal protein S23	HUMAN	1
378	2	13	P62854 RS26	40S ribosomal protein S26	HUMAN	1
379	2	15.7	P68871 HBB	Hemoglobin subunit beta	HUMAN	1
380	2	12.1	Q01629 IFM2	Interferon-induced transmembrane protein 2	HUMAN	2
381	2	3.6	Q01650 LAT1	Large neutral amino acids transporter small subunit 1	HUMAN	1
382	2	1.9	Q10471 GALT2	Polypeptide N-acetylgalactosaminyltransferase 2	HUMAN	1
383	2	8.3	Q10589 BST2	Bone marrow stromal antigen 2	HUMAN	1
384	2	2.6	Q12905 ILF2	Interleukin enhancer-binding factor 2	HUMAN	1
385	2	2.8	Q14684 RRP1B	Ribosomal RNA processing protein 1 homolog B	HUMAN	1
386	2	2	Q5SNT2 TM201	Transmembrane protein 201	HUMAN	1
387	2	3	Q6NUM9 RETST	All-trans-retinol 13,14-reductase	HUMAN	1
388	2	5.4	Q6NUT3 MFS12	Major facilitator superfamily domain-containing protein 12	HUMAN	1
389	2	1.4	Q7Z2K6 ERMP1	Endoplasmic reticulum metallopeptidase 1	HUMAN	1
390	2	1.8	Q8IYD1 ERF3B	Eukaryotic peptide chain release factor GTP-binding subunit ERF3B	HUMAN	1
391	2	2.3	Q8IZV5 RDH10	Retinol dehydrogenase 10	HUMAN	1
392	2	3.6	Q8NFJ5 RAI3	Retinoic acid-induced protein 3	HUMAN	1
393	2	2.2	Q8WTV0 SCRB1	Scavenger receptor class B member 1	HUMAN	1



394	2	2.5 Q92769 HDAC2	Histone deacetylase 2	HUMAN	1
395	2	9.9 Q96AX2 RAB37	Ras-related protein Rab-37	HUMAN	1
396	2	3.6 Q96N66 MBOA7	Lysophospholipid acyltransferase 7	HUMAN	1
397	2	3 Q99729 ROAA	Heterogeneous nuclear ribonucleoprotein A/B	HUMAN	1
398	2	3.3 Q9BWF3 RBM4	RNA-binding protein 4	HUMAN	1
399	2	2.3 Q9P2J5 SYLC	Leucine--tRNA ligase, cytoplasmic	HUMAN	1
400	2	4.3 Q9UQ80 PA2G4	Proliferation-associated protein 2G4	HUMAN	1
401	2	8.4 Q9Y3E5 PTH2	Peptidyl-tRNA hydrolase 2, mitochondrial	HUMAN	1
402	2	4.6 Q9Y3F4 STRAP	Serine-threonine kinase receptor-associated protein	HUMAN	1
403	2	8.5 Q9Y676 RT18B	28S ribosomal protein S18b, mitochondrial	HUMAN	1
404	2	4.3 Q9Y6K0 CEPT1	Choline/ethanolaminephosphotransferase 1	HUMAN	1
405	1.96	2.5 Q7L0Y3 MRRP1	Mitochondrial ribonuclease P protein 1	HUMAN	1
406	1.96	1.8 P49588 SYAC	Alanine--tRNA ligase, cytoplasmic	HUMAN	1
407	1.94	7.2 Q99873 ANM1	Protein arginine N-methyltransferase 1	HUMAN	1
408	1.92	1.3 P49736 MCM2	DNA replication licensing factor MCM2	HUMAN	1
409	1.92	6.1 Q9BSH4 TACO1	Translational activator of cytochrome c oxidase 1	HUMAN	1
410	1.92	7 Q95870 ABHGA	Protein ABHD16A	HUMAN	1
411	1.92	2.8 P0CW18 PR556	Serine protease 56	HUMAN	1
412	1.92	4.9 P62701 RS4X	40S ribosomal protein S4, X isoform	HUMAN	1
413	1.9	17.5 Q56VL3 OCAD2	OCIA domain-containing protein 2	HUMAN	1
414	1.87	14.8 Q8N5K1 CISD2	CDGSH iron-sulfur domain-containing protein 2	HUMAN	2
415	1.83	3.3 Q6PI48 SYDM	Aspartate--tRNA ligase, mitochondrial	HUMAN	1
416	1.8	19.5 P12236 ADT3	ADP/ATP translocase 3	HUMAN	7
417	1.8	1.7 A0FGR8 ESYT2	Extended synaptotagmin-2	HUMAN	1
418	1.8	10.6 P18085 ARF4	ADP-ribosylation factor 4	HUMAN	2
419	1.77	1.7 Q14CZ7 FAKD3	FAST kinase domain-containing protein 3, mitochondrial	HUMAN	1
420	1.77	1.6 Q15031 SYLM	Probable leucine--tRNA ligase, mitochondrial	HUMAN	1
421	1.74	7.6 P42126 ECI1	Enoyl-CoA delta isomerase 1, mitochondrial	HUMAN	2
422	1.72	10.7 P30084 ECHM	Enoyl-CoA hydratase, mitochondrial	HUMAN	2
423	1.7	6.8 P40926 MDHM	Malate dehydrogenase, mitochondrial	HUMAN	1
424	1.7	1.3 Q12769 NU160	Nuclear pore complex protein Nup160	HUMAN	2
425	1.7	1.1 Q5J TZ9 SYAM	Alanine--tRNA ligase, mitochondrial	HUMAN	1
426	1.68	5.7 P62829 RL23	60S ribosomal protein L23	HUMAN	1
427	1.66	6.3 O75306 NDUS2	NADH dehydrogenase [ubiquinone] iron-sulfur protein 2, mitochondr	HUMAN	2
428	1.6	0.4 O60318 GANP	Germinal-center associated nuclear protein	HUMAN	1
429	1.5	2.8 Q92973 TNPO1	Transportin-1	HUMAN	1
430	1.49	2.1 O43684 BUB3	Mitotic checkpoint protein BUB3	HUMAN	1
431	1.49	2.1 Q96CU9 FXRD1	FAD-dependent oxidoreductase domain-containing protein 1	HUMAN	1
432	1.46	1.3 Q09161 NCBP1	Nuclear cap-binding protein subunit 1	HUMAN	1
433	1.44	1.3 Q8TAD4 ZNT5	Zinc transporter 5	HUMAN	1
434	1.43	3.2 Q9BZE4 NOG1	Nucleolar GTP-binding protein 1	HUMAN	1
435	1.4	9.5 P20618 PSB1	Proteasome subunit beta type-1	HUMAN	2
436	1.38	5.6 Q4J6C6 PPCEL	Prolyl endopeptidase-like	HUMAN	3
437	1.34	5.3 Q9NPL8 TIDC1	Complex I assembly factor TIMMDC1, mitochondrial	HUMAN	1
438	1.33	1.2 Q3SY69 AL1L2	Mitochondrial 10-formyltetrahydrofolate dehydrogenase	HUMAN	1
439	1.32	5 O00299 CLIC1	Chloride intracellular channel protein 1	HUMAN	1
440	1.32	6.6 O14684 PTGES	Prostaglandin E synthase	HUMAN	1
441	1.31	5.3 P62241 RS8	40S ribosomal protein S8	HUMAN	1
442	1.3	5.4 P22830 HEMH	Ferrochelatase, mitochondrial	HUMAN	1

1. Unused Score, unused protein score. For the target identification, a strict total score cut-off of 1.3 was set as the qualification criterion, which corresponded to a protein confidence interval of 95%.
2. % Cov (95), percent protein sequence coverage with the identified peptides.