

SUPPLEMENTARY RESULTS

Supplementary Figure Legends

Figure S1. Comparison of Tube-Gel digestion of myoglobin in the presence of (Blue) and absence (Red) of 2% SDS. (A). Base peak chromatography of digestion products of 26 ng (~1.4 pico-moles) myoglobin using the above two digestion protocols. Mass spectra of two representative peptides are shown. **(B).** VEADIAGHGQEVLR (536.26, 2+). **(C).** HGTVVLTALGGILK (689.69, 2+). It is evident that the Tube-Gel digestion protocol produced more detectable peptides with greater intensity in mass spectra.

Figure S2. Comparison of Tube-Gel digestion of Bacteriorhodopsin in the presence (Blue) and absence (Red) of 2% SDS. (A). Base peak chromatography of digestion products of 20 ng (~ 700 femto-moles) of bacteriorhodopsin using the above two protocols. Mass spectra of two representative peptides are shown in panels B and C. **(B).** AIFGEAEPEPSAGDGAAATS (950.91, 2+). **(C).** VGFGILLR (494.31, 2+). More peptides were detected with great intensity in mass spectra when the sample was prepared by Tube-Gel digestion protocol in the presence of 2% SDS.

Supplementary Table S1. Proteins identified in the membrane fraction of PC-3 cells.

Method A: Tube-Gel digestion followed by one LC-MS/MS analysis.

Method B: SDS-PAGE followed by 20 LC-MS/MS analysis.

	Protein	Accession #	# of TMDs	Method A: Seq. coverage, % / peptide #	Method B: Seq. coverage, % / peptide #
1	4F2 heavy chain antigen	AAA35489	1	33% / 15	32% / 14
2	ACTB protein	AAH12854	0	43% / 11	20% / 6
3	Acyl-CoA synthetase long-chain family member 3	AAH41692	1	15% / 8	11% / 7
4	ADP-ribosylation factor-like 10C	NP_080287	0	17% / 4	15% / 4
5	alpha-actinin 1	FAHUAA	0	5% / 5	7% / 6
6	androgen-regulated short-chain dehydrogenase/reductase 1	AAF89632	0	15% / 4	30% / 8
7	ATPase, Ca ⁺⁺ transporting, cardiac muscle, slow twitch 2, isoform 1	AAH35588	8	24% / 20	19% / 15
8	B-cell receptor associated protein	AAC51639	2	25% / 4	18% / 4
9	B-ind1 protein	CAB69070	5	9% / 4	5% / 2
10	BiP protein	AAF13605	0	39% / 20	56% / 40
11	CANX protein	AAH42843	1	43% / 20	35% / 23
12	carnitine palmitoyltransferase 1A	NP_001867	2	5% / 3	4% / 4
13	Cation-independent mannose-6-phosphate receptor precursor	P11717	1	7% / 18	5% / 13
14	Chromosome 10 open reading frame 69	AAH31791	1	9% / 3	9% / 2
15	cytochrome P450 reductase	AAB21814	1	19% / 10	11% / 7
16	cytoskeleton-associated protein 4	NP_006816	1	33% / 16	59% / 28
17	DHCR7 protein	AAH00054	6	17% / 7	12% / 5
18	dihydrolipoamide S-acetyltransferase	XXHU	0	6% / 3	5% / 3
19	DKFZP564J0863 protein	AAH77727	2	23% / 7	20% / 10
20	dolichyl-diphosphooligosaccharide-protein glycosyltransferase	BAB93478	2	22% / 8	7% / 3
21	EMMPRIN	BAB88938	2	24% / 7	20% / 5
22	Ephrin receptor EphA2	AAH37166	1	14% / 13	6% / 5
23	epican	CAA47271	1	11% / 8	5% / 3
24	epidermal growth factor receptor precursor	GQHUE	2	14% / 17	12% / 14
25	GANAB protein	AAH65266	0	8% / 5	13% / 12
26	GK001 protein	NP_064583	0	16% / 8	6% / 3
27	GLG1 protein	AAH60822	1	9% / 9	3% / 5
28	guanine nucleotide binding protein (G protein), beta polypeptide 1	AAP35969	0	9% / 2	15% / 6
29	guanine nucleotide-binding regulatory protein	AAA52556	0	23% / 6	2% / 2
30	H4 histone family, member M	NP_003486	0	29% / 3	21% / 2

31	Heat shock 70kDa protein 8, isoform 1	AAH16660	0	34% / 15	36% / 20
32	heat shock protein 90-beta	HHHU84	0	12% / 10	19% / 16
33	hexokinase 1 isoform HKI-ta/tb; brain form hexokinase	NP_277033	0	10% / 11	16% / 14
34	hnRNP U protein	CAA46472	0	12% / 9	9% / 5
35	hypothetical protein	CAB66585	0	20% / 4	11% / 2
36	hypothetical protein DKFZp564E1962.1	T12471	3	16% / 5	22% / 8
37	Hypothetical protein MGC5508	AAH01309	5	4% / 1	16% / 5
38	Inner membrane protein, mitochondrial; motor protein;mitofilin,	NP_006830	0	6% / 4	20% / 14
39	integrin beta 1 isoform 1A precursor	NP_002202	1	28% / 18	18% / 14
40	integrin beta 4	CAB61345	1	6% / 11	4% / 6
41	integrin, alpha 2 (CD49B, alpha 2 subunit of VLA-2 receptor)	AAM34795	2	16% / 15	22% / 20
42	KIAA0152 gene product	AAH16297	1	16% / 8	22% / 6
43	KIAA0253	BAA13383	1	7% / 4	12% / 5
44	kinectin 1 - human	S32763	1	34% / 37	27% / 30
45	Lectin, mannose-binding 2	AAH17263	1	28% / 9	9% / 3
46	low density lipoprotein receptor precursor	NP_000518	1	5% / 5	8% / 7
47	LYRIC/3D3	AAH45642	1	12% / 5	44% / 21
48	lysosomal integral membrane protein II	A56525	2	14% / 4	5% / 3
49	MBC2 protein	AAH13880	0	10% / 7	5% / 5
50	Melanoma cell adhesion molecule	AAH56418	1	15% / 9	23% / 14
51	Membrane alanine aminopeptidase, precursor	AAH58928	1	17% / 13	18% / 19
52	MEMD protein	CAA71256	1	26% / 10	13% / 9
53	MHC class I antigen	AAT27438	0	29% / 6	20% / 3
54	MSTP065	AAQ13585	1	7% / 1	14% / 1
55	MSTP086	AAQ13609	6	11% / 5	4% / 3
56	myoferlin	AAF27177	1	10% / 18	11% / 20
57	Na+/K+ -ATPase alpha 1 subunit	AAH50359	10	28% / 24	16% / 9
58	neutral amino acid transporter	AAD09814	9	7% / 3	14% / 7
59	Nicalin	AAH13283	2	17% / 8	15% / 7
60	Niemann-Pick disease, type C1	NP_000262	12	2% / 3	4% / 5
61	NSEP1 protein	AAH00064	0	31% / 5	10% / 2
62	nucleolin	NP_005372	0	9% / 6	6% / 3
63	p120 catenin isoform 2B	AAC39810	0	7% / 6	7% / 6
64	p25	AAL35268	1	32% / 7	25% / 7
65	p76	AAB38973	9	13% / 7	6% / 6
66	PCYOX1 protein	AAH07029	0	3% / 1	13% / 5
67	peroxisomal membrane protein, 70K	S20313	3	9% / 6	23% / 13
68	pituitary tumor-transforming gene protein binding factor	AAF73770	0	10% / 1	6% / 1
69	pM5 (3' partial)	AAC15783	0	4% / 4	14% / 15
70	porin	AAA60145	0	29% / 7	33% / 10
71	Porin 31HM	AAB20246	0	38% / 8	35% / 9
72	prohibitin	NP_002625	0	34% / 7	54% / 16
73	pro-ubiquitin	AAA36788	0	36% / 5	24% / 4
74	putative 40-9-1 protein	CAC51434	9	4% / 1	10% / 3

75	rab1B	AAP97212	0	43% / 7	66% / 13
76	RAB6A, member RAS oncogene family, isoform a	AAH03617	0	39% / 8	32% / 9
77	RAB7 protein	AAH08721	0	44% / 8	56% / 11
78	reductase,NADH cytochrome b5 related RAS viral (r-ras) oncogene homolog	1203280A	0	29% / 5	24% / 9
79	homolog	AAP35451	0	17% / 2	10% / 2
80	RER1 protein	AAF67490	3	22% / 4	13% / 3
81	Ribophorin I	AAH10839	1	37% / 18	50% / 29
82	ribophorin II precursor	B26168	4	19% / 10	10% / 6
83	ribosomal protein L7	CAA41027	0	18% / 4	26% / 9
84	ribosomal protein L7a; 60S ribosomal protein L7a	NP_000963	0	26% / 6	32% / 9
85	ribosomal protein L9, cytosolic	S65792	0	18% / 2	5% / 1
86	ribosomal protein S2; 40S ribosomal protein S2	NP_002943	6	18% / 4	14% / 5
87	scar protein	AAA36597	0	32% / 8	7% / 2
88	scribble	AAL38976	0	4% / 5	3% / 5
89	signal recognition particle receptor beta subunit	AAP97144	1	15% / 3	38% / 8
90	signal sequence receptor, alpha; TRAP alpha	NP_003135	1	13% / 5	9% / 2
91	Similar to AFG3 ATPase family gene 3-like 2 (yeast)	AAH24282	2	5% / 4	16% / 15
92	similar to vesicle trafficking protein sec22b	XP_227499	1	46% / 8	20% / 5
93	SLC25A3 protein	AAH15379	2	21% / 8	16% / 5
94	Solute carrier family 25 (mitochondrial carrier; oxoglutarate carrier), member 11	AAH06519	0	8% / 2	9% / 2
95	Solute carrier family 25, member 5	AAH56160	2	54% / 16	33% / 13
96	Steroid dehydrogenase homolog	AAH12043	3	32% / 6	34% / 10
97	surface 4 integral membrane protein	CAA75099	5	9% / 3	7% / 2
98	syntaxin 7	AAC51851	1	25% / 7	24% / 5
99	transferrin receptor	NP_003225	1	39% / 26	31% / 21
100	transforming protein rap2b	TVHUR2	0	10% / 2	12% / 2
101	translation elongation factor 1 alpha 1-like 14	AAK93966	0	24% / 7	7% / 3
102	translocating chain-associating membrane protein	AAP36023	8	12% / 4	9% / 3
103	Transmembrane trafficking protein	AAH01825	2	21% / 5	13% / 3
104	tubulin alpha	CAA25855	0	16% / 6	8% / 3
105	tubulin Beta 5	AAH20946	0	15% / 6	2% / 1
106	Tumor-associated calcium signal transducer 1 precursor	P16422	1	14% / 3	10% / 4
107	Ubiquinol-cytochrome-c reductase complex core protein I	P31930	0	6% / 2	3% / 1
108	unknown	AAQ96872	1	19% / 4	7% / 2
109	unnamed protein product	CAA68486	0	24% / 8	7% / 4
110	unnamed protein product	BAA91764	0	18% / 11	25% / 17
111	VAMP-associated 33 kDa protein	AAF67013	1	13% / 4	14% / 4

112	WS beta-transducin repeats protein	AAD28083	0	14% / 6	7% / 3
113	YPT3	CAA56176	0	20% / 5	15% / 3
114	glycoprotein, synaptic 2	AAP35843	4	16% / 5	21% / 8
	lysosomal-associated membrane				
115	glycoprotein-1	AAF66141	1	7% / 3	18% / 7
116	60S ribosomal protein L15	AAG44837	0	39% / 8	N/A
117	Annexin A2, isoform 2	AAH23990	0	28% / 8	N/A
	Asparagine-linked glycosylation 3				
118	homolog	AAH02839	7	10% / 4	N/A
	ATP synthase, H ⁺ transporting,				
119	mitochondrial F0 complex, subunit f	NP_004880	1	25% / 2	N/A
120	B-cell receptor-associated protein 31	AAH14323	2	26% / 5	N/A
121	calumenin	AAB97725	0	13% / 4	N/A
	catechol-O-methyltransferase isoform				
122	MB-COMT	NP_000745	1	16% / 3	N/A
123	caveolin 1	AAR16246	1	34% / 4	N/A
	Chain A, Crystal Structure Of Protein				
124	Tyrosine Phosphatase 1b	1C86A	0	6% / 2	N/A
125	Coated vesicle membrane protein	AAH25957	2	21% / 4	N/A
	Cytochrome b5 outer mitochondrial				
126	membrane isoform precursor	O43169	1	30% / 2	N/A
	Dehydrogenase/reductase (SDR family)				
127	member 7	AAH00637	1	38% / 13	N/A
128	differentiation-dependent A4 protein	AAA35499	4	9% / 1	N/A
129	hypothetical protein PRO1855	NP_060979	1	53% / 16	N/A
130	integrin alpha 3 isoform b, precursor	NP_005492	2	2% / 4	N/A
	interleukin 1 receptor-like 1 ligand				
131	precursor	NP_006849	1	3% / 1	N/A
132	junction adhesion molecule	AAD43794	1	12% / 4	N/A
133	KIAA0573 protein	BAA25499	0	10% / 4	N/A
134	KIAA0887 protein	BAA74910	0	8% / 3	N/A
135	KIAA1363 protein	BAA92601	0	11% / 5	N/A
	LAG1 longevity assurance homolog 2,				
136	isoform 1	AAH10032	5	9% / 2	N/A
137	laminin receptor homolog	AAB22173	0	25% / 3	N/A
	lysosome-associated membrane				
138	protein-3 variant	AAM34259	3	9% / 2	N/A
139	Mal, T-cell differentiation protein 2	AAH12367	4	6% / 1	N/A
140	MBC3205	AAQ89308	4	20% / 3	N/A
	mel transforming oncogene (derived				
141	from cell line NK14)- RAB8 homolog	AAP35848	0	17% / 3	N/A
	MHC class I histocompatibility antigen				
142	HLA-A28 alpha chain	HLHU28	0	9% / 3	N/A
143	microsomal glutathione S-transferase 1	AAQ55111	1	27% / 4	N/A
144	moesin	NP_002435	0	16% / 11	N/A
145	Monocarboxylate transporter 4	O15427	12	4% / 2	N/A
146	multidrug resistance protein	AAA50612	0	16% / 3	N/A
147	Nogo-A protein	CAB99248	2	5% / 5	N/A
148	Phosphatidylserine synthase 1	AAH04390	9	2% / 1	N/A
149	Prion protein	AAB59442	0	9% / 2	N/A

150	Progesterone membrane binding protein	AAH16692	1	22% / 2	N/A
151	protein disulfide isomerase-related protein 5	AAB50217	0	8% / 3	N/A
152	protein tyrosine phosphatase, receptor type, F isoform 1 precursor	NP_002831	1	5% / 9	N/A
153	ras-like protein	AAA36544	0	30% / 5	N/A
154	reticulon 3-A	AAR02474	3	2% / 3	N/A
155	retroviral receptor	S29685	14	5% / 3	N/A
156	ribosomal protein L12; 60S ribosomal protein L12	NP_000967	0	14% / 2	N/A
157	ribosomal protein L18a; 60S ribosomal protein L18a	NP_000971	0	17% / 3	N/A
158	ribosomal protein L3; 60S ribosomal protein L3; HIV-1 TAR RNA-binding protein B	NP_000958	0	26% / 9	N/A
159	ribosomal protein L4; 60S ribosomal protein L4; homologue of Xenopus ribosomal protein L1	NP_000959	0	28% / 9	N/A
160	Ribosomal protein L6	AAH31009	0	29% / 6	N/A
161	ribosomal protein S17; 40S ribosomal protein S17	NP_001012	0	16% / 1	N/A
162	ribosomal protein S5	BAA25815	0	47% / 2	N/A
163	S100 calcium binding protein A14	AAH05019	0	25% / 2	N/A
164	S100 calcium binding protein A16	AAH19099	0	15% / 2	N/A
165	sarco-/endoplasmic reticulum Ca-ATPase 3	AAC24525	8	6% / 7	N/A
166	signal sequence receptor gamma subunit	NP_009038	4	20% / 3	N/A
167	signal sequence receptor, delta; translocon-associated protein delta	NP_006271	0	31% / 4	N/A
168	specific 116-kDa vacuolar proton pump subunit	AAA97878	8	9% / 6	N/A
169	TIRAP3b	AAQ97433	0	17% / 5	N/A
170	Transmembrane 9 superfamily protein member 4	AAH21107	9	6% / 3	N/A
171	ubiquinol-cytochrome-c reductase (EC 1.10.2.2) cytochrome c1 precursor	S00680	0	16% / 4	N/A
172	Unknown (protein for IMAGE:3543815)	AAH20169	0	25% / 5	N/A
173	Unknown (protein for MGC:71373)	AAH63378	0	24% / 6	N/A
174	unnamed protein product	BAB14065	0	6% / 2	N/A
175	unnamed protein product	BAB55370	0	10% / 3	N/A
176	unnamed protein product	BAB71043	0	8% / 3	N/A
177	VDAC3, Voltage-dependent anion channel 3	AAH56870	0	22% / 6	N/A
178	Vesicle-associated membrane protein-associated protein A, isoform 2	AAH02992	1	48% / 9	N/A
179	2-oxoglutarate carrier	CAA46905	0	N/A	7% / 2
180	30 kDa protein	AAH22807	2	N/A	6% / 1
181	3-phosphoglycerate dehydrogenase	AAB88664	0	N/A	9% / 5
182	5'-nucleotidase	CAA39271	1	N/A	9% / 4

183	5T4 oncofetal trophoblast glycoprotein	AAH37161	1	N/A	9% / 3
184	aldehyde dehydrogenase 3A2	NP_000373	1	N/A	9% / 4
185	Alpha-1,6-mannosyl-glycoprotein beta-1,2-N-acetylglucosaminyltransferase	AAH06390	1	N/A	4% / 2
186	antigen CD9	AAA51958	0	N/A	33% / 1
187	aralar2	CAB62206	0	N/A	21% / 13
188	aspartyl(asparaginy)l-beta-hydroxylase	AAB50779	1	N/A	14% / 11
189	ATP synthase, H+ transporting, mitochondrial F1 complex	NP_005165	0	N/A	8% / 3
190	ATPase, Na+/K+ transporting, beta 1 polypeptide	AAP88789	1	N/A	17% / 6
191	bA217H1.1 (similar to N33 protein)	CAC36035	4	N/A	9% / 2
192	brain-selective and closely mapped on the counter allele of CMAP in cystatin cluster	BAB11885	1	N/A	4% / 2
193	bullous pemphigoid antigen	AAA35606	0	N/A	2% / 5
194	C-1-tetrahydrofolate synthase, cytoplasmic (C1-THF synthase)	P11586	0	N/A	8% / 7
195	Ca ATPase SERCA1	2204260A	7	N/A	2% / 3
196	Calcium-binding protein p22 (Calcium-binding protein CHP)	Q99653	0	N/A	25% / 4
197	calnexin	I53260	1	N/A	6% / 3
198	calreticulin precursor	NP_004334	0	N/A	23% / 9
199	carboxypeptidase D	AAC51775	2	N/A	6% / 8
200	catenin (cadherin-associated protein), beta 1, 88kDa	NP_001895	0	N/A	4% / 3
201	CD81 antigen	AAH02978	4	N/A	8% / 1
202	CD97	AAB36682	7	N/A	9% / 6
203	cell surface glycoprotein P1H12 precursor	AAD17799	1	N/A	6% / 4
204	cellular apoptosis susceptibility protein	AAC35008	0	N/A	3% / 4
205	CGI-08 protein	AAD27717	6	N/A	5% / 2
206	CGI-49 protein	AAD34044	1	N/A	10% / 3
207	Chain A, Human Rap1a, Residues 1-167, Double Mutant (E30d,K31e)	1GUAA	0	N/A	13% / 2
208	CKAP4 protein	AAH67357	1	N/A	57% / 32
209	Clathrin heavy chain 1	AAH54489	0	N/A	12% / 18
210	CLIC1	AAD18073	0	N/A	29% / 6
211	CTL2 protein	CAB75542	10	N/A	5% / 3
212	CUB domain containing protein 1	AAK02058	1	N/A	3% / 3
213	cytochrome C oxidase II subunit	CAA39187	1	N/A	9% / 2
214	Cytochrome c oxidase subunit Va, precursor	AAH24240	0	N/A	6% / 1
215	cytochrome-c oxidase (EC 1.9.3.1) chain Vb precursor	OTHU5B	0	N/A	19% / 4
216	E-cadherin	CAA79356	1	N/A	3% / 3
217	Elongation factor 2 (EF-2)	P13639	0	N/A	4% / 5
218	endobrevin	AAC08434	1	N/A	18% / 2
219	endothelial and smooth muscle cell-derived neuropilin-like protein	AAL30178	1	N/A	4% / 3

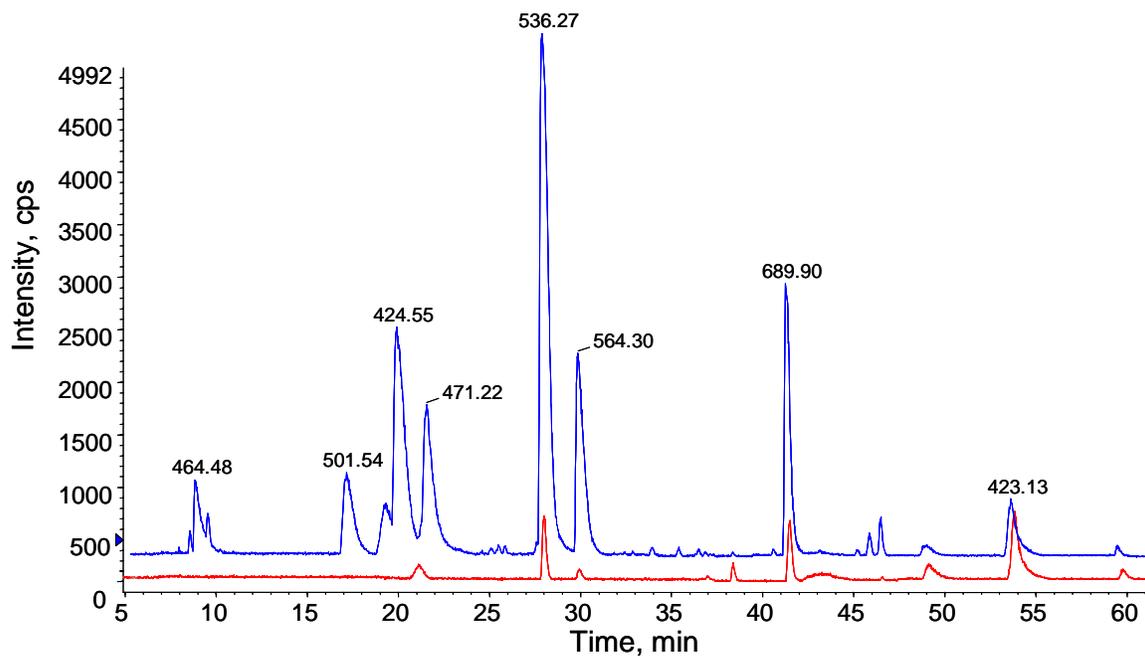
220	fatty acid transport protein	AAD11623	2	N/A	10% / 6
221	galactose-specific lectin	AAA88086	0	N/A	14% / 3
222	GIQT3049	AAQ89385	1	N/A	12% / 3
223	glucosidase I	CAD19636	1	N/A	14% / 11
224	golgi antigen gcp372	CAD19636	1	N/A	0% / 3
225	Golgi autoantigen, golgin subfamily a, 5	AAH23021	1	N/A	12% / 9
226	Golgi phosphoprotein 2	AAH01740	1	N/A	15% / 7
227	golgi phosphoprotein 4; type II Golgi membrane protein	NP_055313	1	N/A	3% / 2
228	GOSR1 protein	AAH12620	2	N/A	12% / 2
229	GTP-binding protein Rab2	B34323	0	N/A	12% / 2
230	heat shock 70kDa protein 1A	NP_005336	0	N/A	18% / 12
231	heat shock protein 90-alpha	HHHU86	0	N/A	14% / 11
232	heat shock protein gp96 precursor	AAK74072	0	N/A	17% / 12
233	HNRPU protein	AAH15782	0	N/A	12% / 9
234	HSPC041 protein	AAD39919	0	N/A	10% / 1
235	hypothetical protein	CAD39032	1	N/A	5% / 2
236	hypothetical protein	CAD39094	0	N/A	18% / 8
237	integral nuclear envelope inner membrane protein	AAA59495	8	N/A	10% / 5
238	integrin alpha 6	AAD48469	1	N/A	12% / 11
239	intercellular adhesion molecule 1 (CD54)	AAP35500	1	N/A	18% / 9
240	ITGB2 protein	AAH05861	1	N/A	13% / 8
241	KIAA0118	BAA07682	0	N/A	18% / 2
242	KIAA0315	BAA21571	0	N/A	5% / 12
243	KIAA0747 protein	AAH04998	2	N/A	28% / 26
244	KIAA0761 protein	BAA34481	3	N/A	7% / 4
245	KIAA0792 protein	BAA34512	11	N/A	3% / 3
246	KIAA1228 protein	EAL23931	1	N/A	8% / 6
247	KIAA1708	BAB21799	0	N/A	2% / 6
248	KIAA1715 protein	BAB21806	2	N/A	10% / 4
249	lanosterol 14-alpha demethylase	AAC50951	1	N/A	20% / 10
250	Leucine zipper-EF-hand containing transmembrane protein 1	AAH21208	1	N/A	6% / 5
251	leucine-rich PPR motif-containing protein	AAP41922	0	N/A	3% / 6
252	Leukocyte surface antigen CD47 precursor	Q08722	6	N/A	5% / 2
253	low-Mr GTP-binding protein Rab32	AAB02833	0	N/A	10% / 2
254	lysosomal membrane glycoprotein-2	AAA60383	1	N/A	4% / 2
255	Mesenchymal stem cell protein DSCD75	AAH01311	1	N/A	9% / 2
256	Microsomal signal peptidase 25 kDa subunit	Q15005	2	N/A	19% / 5
257	mitochondrial carrier homolog 2; 2310034D24Rik	NP_055157	0	N/A	7% / 3
258	My009 protein	AAG43122	2	N/A	13% / 6
259	MYO1C protein	AAH44891	0	N/A	16% / 15
260	myosin IB; myosin-I alpha	NP_036355	0	N/A	21% / 20

261	myristoylated alanine-rich C-kinase substrate	AAA59555	0	N/A	24% / 4
262	Neural cell adhesion molecule L1 neuroblastoma RAS viral (v-ras)	CAA42508	1	N/A	1% / 1
263	oncogene homolog	NP_002515	0	N/A	12% / 2
264	neuropathy target esterase	AAH38229	1	N/A	4% / 5
265	neuropilin	AAC51759	1	N/A	9% / 7
266	neutrophil lipocalin	AAD14168	0	N/A	30% / 5
267	nucleoporin 210; nuclear pore membrane glycoprotein 210	NP_079199	2	N/A	4% / 7
268	Oligosaccharyl transferase STT3 subunit homolog (B5) (Integral membrane protein 1)	P46977	13	N/A	6% / 5
269	oxytocinase splice variant 2	AAB66673	1	N/A	9% / 10
270	p53 inducible protein	NP_055191	0	N/A	2% / 3
271	PAI-RBP1 protein	AAH08045	0	N/A	9% / 4
272	phosphatidylinositol glycan class S plasma membrane calcium ATPase isoform 1	AAD09925	7	N/A	10% / 8
274	Podocalyxin-like protein 1 precursor	O00592	1	N/A	3% / 2
275	polypeptide N-acetylgalactosaminyltransferase 2	NP_004472	1	N/A	21% / 10
276	polypeptide N-acetylgalactosaminyltransferase 3	NP_004473	1	N/A	12% / 6
277	progesterone receptor membrane component 1	NP_006658	1	N/A	16% / 5
278	Prolyl 4-hydroxylase, beta subunit	AAH71892	0	N/A	18% / 12
279	protein disulfide-isomerase (EC 5.3.4.1) ER60 precursor	S55507	0	N/A	29% / 17
280	protein ERGIC-53	1919261A	1	N/A	6% / 5
281	Protein kinase C substrate, 80 kDa protein, heavy chain (PKCSH) (80K-H protein)	P14314	0	N/A	7% / 4
282	RAB18, member RAS oncogene family	AAP88842	0	N/A	16% / 3
283	RAB34 protein	AAH16841	0	N/A	8% / 2
284	RAB5A, member RAS oncogene family	AAH18288	0	N/A	26% / 4
285	Ras-GTPase-activating protein SH3-domain-binding protein	AAH06997	0	N/A	9% / 3
286	Receptor protein-tyrosine kinase erbB-4 precursor (p180erbB4)	Q15303	2	N/A	2% / 3
287	repressor of estrogen receptor activity	AAP86652	0	N/A	32% / 9
288	retinoic acid induced 3; retinoic acid responsive gene	NP_003970	7	N/A	3% / 1
289	ribosomal protein homologous to yeast S24	CAA44568	0	N/A	14% / 2
290	ribosomal protein L10a	BAC16802	0	N/A	15% / 5
291	ribosomal protein L18; 60S ribosomal protein L18	NP_000970	0	N/A	28% / 5
292	ribosomal protein L24; 60S ribosomal protein L24	NP_000977	0	N/A	26% / 5

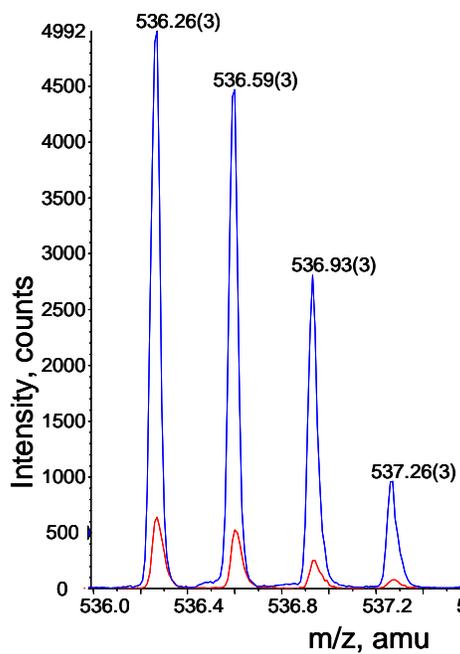
293	ribosomal protein L35a; 60S ribosomal protein L35a	NP_000987	0	N/A	16% / 3
294	ribosomal protein L8; 60S ribosomal protein L8	NP_150644	0	N/A	15% / 4
295	ribosomal protein S26	CAA49345	0	N/A	20% / 2
296	ribosomal protein S3	AAA18095	0	N/A	37% / 3
297	Ribosomal protein S6	AAH13296	0	N/A	32% / 12
298	ribosomal protein S8; 40S ribosomal protein S8	NP_001003	0	N/A	13% / 2
299	ribosomal protein S9, cytosolic	S55917	0	N/A	14% / 3
300	RRBP1 protein	AAH00099	0	N/A	5% / 3
301	ryanodine receptor 1 (skeletal)	NP_000531	6	N/A	0% / 6
302	sarcolectin	CAB41416	0	N/A	16% / 8
303	scavenger receptor class B type III	AAQ08185	1	N/A	8% / 4
304	SDIG243	AAQ89177	5	N/A	9% / 3
305	secretory carrier membrane protein	AAB62724	4	N/A	12% / 3
306	Sel-1 homolog precursor (Suppressor of lin-12-like protein) (Sel-1L)	Q9UBV2	1	N/A	10% / 6
307	serine palmitoyltransferase subunit 1 isoform a	NP_006406	2	N/A	5% / 2
308	serine protease TADG15 [Homo sapiens]	AAG15395	1	N/A	3% / 2
309	SLC38A1 protein	AAH10620	11	N/A	5% / 3
310	small GTP binding protein Rab7	AAA86640	0	N/A	21% / 4
311	Solute carrier family 2, facilitated glucose transporter, member 1	P11166	12	N/A	6% / 5
312	sphingosine-1-phosphate lyase	CAA09590	0	N/A	24% / 14
313	synaptophysin homolog	S20316	1	N/A	7% / 1
314	syntaxin 10	JC5922	1	N/A	10% / 2
315	syntaxin 8	AAD20831	1	N/A	7% / 2
316	TGN46	CAA64002	1	N/A	3% / 3
317	thioredoxin peroxidase	NP_006397	0	N/A	4% / 1
318	Thrombospondin 1 precursor	P07996	0	N/A	4% / 5
319	transcriptional coactivator ALY	AAD09608	0	N/A	4% / 1
320	transmembrane glycoprotein	CAB61878	1	N/A	8% / 5
321	transmembrane protein 33	NP_060596	1	N/A	18% / 5
322	transmembrane protein TM9SF3	AAF98159	9	N/A	3% / 3
323	tumor-associated calcium signal transducer 2	AAP35919	1	N/A	8% / 2
324	unknown	AAC25388	2	N/A	19% / 5
325	unnamed protein product	BAC04810	1	N/A	5% / 6
326	unnamed protein product	BAC11702	0	N/A	16% / 14
327	unnamed protein product	CAA25086	0	N/A	9% / 2
328	vacuolar protein sorting	CAB40417	0	N/A	7% / 5
329	Vacuolar proton translocating ATPase 116 kDa subunit a isoform 2	Q9Y487	6	N/A	11% / 10
330	vacuolar sorting protein 35	AAF89953	0	N/A	5% / 4
331	Villin 2	AAH68458	0	N/A	18% / 13

Supplementary Figure S1

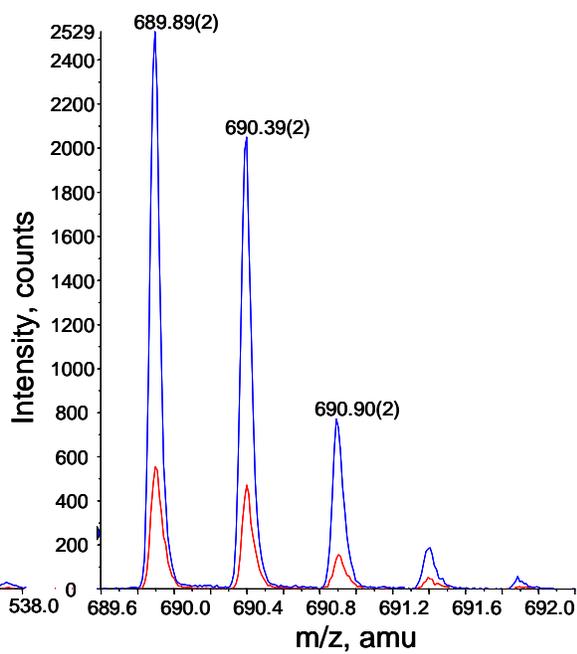
(A)



(B)

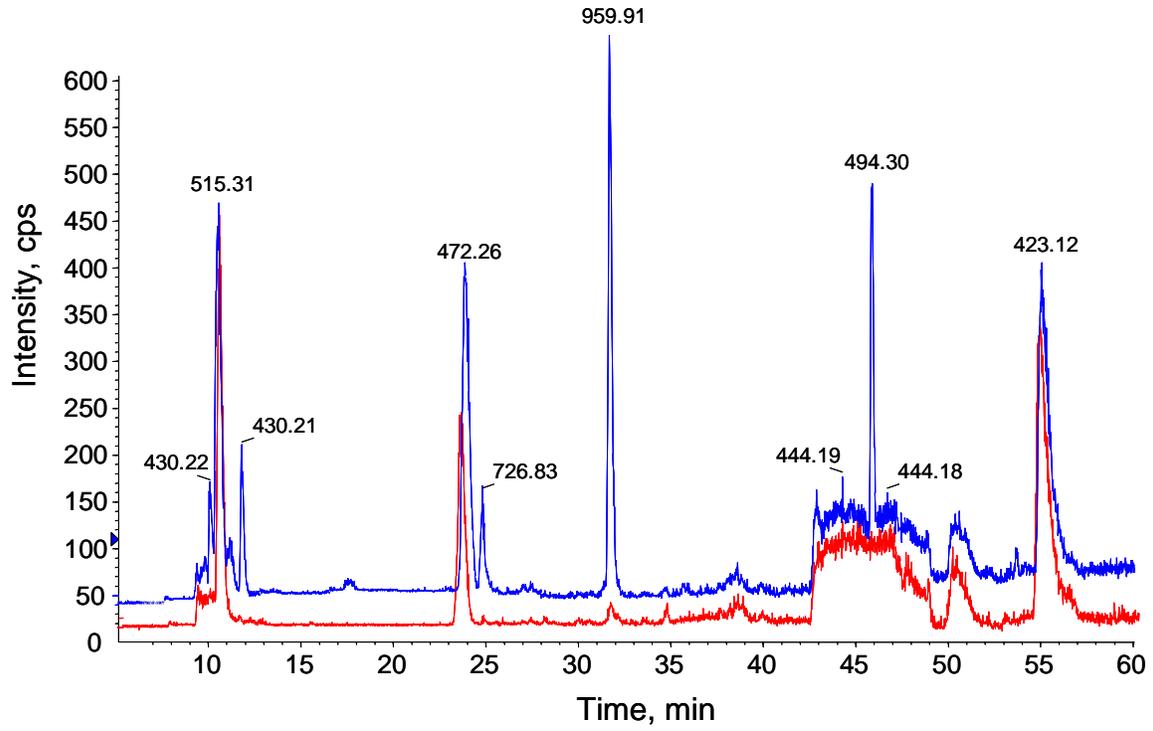


(C)

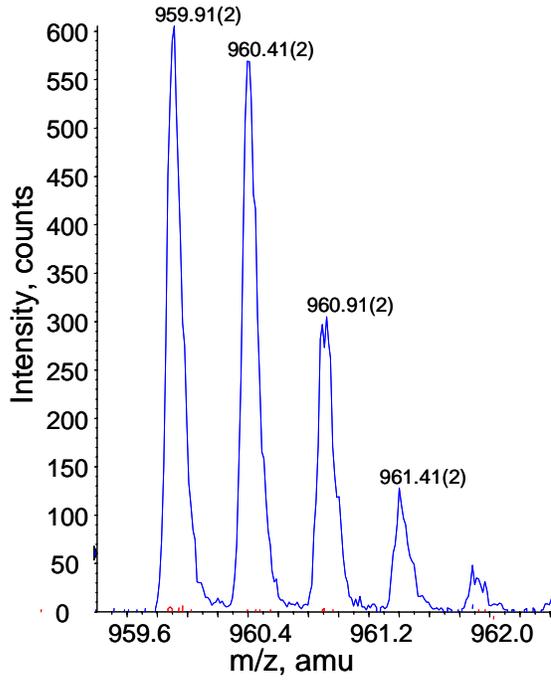


Supplementary Figure S2

(A)



(B)



(C)

